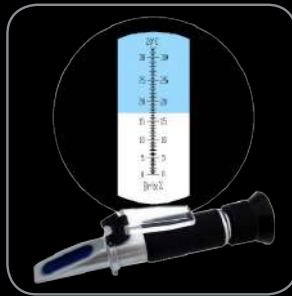
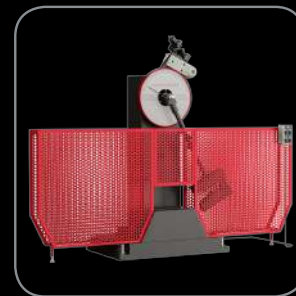
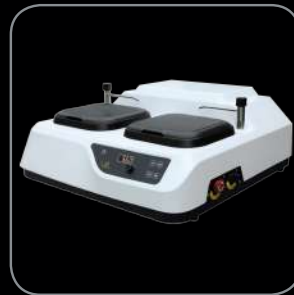




PRIDE



**MEASURING TOOLS | HARDNESS TESTERS | METALLOGRAPHIC
EQUIPMENTS | FORCE AND TORQUE GAUGES | NDT TESTING
INSTRUMENTS | MATERIAL TESTING MACHINES | OPTICAL
INSTRUMENTS | ELECTRICAL INSTRUMENTS | PAINTING
EQUIPMENTS**



WELCOME TO SHENZHEN PRIDE INSTRUMENT INC.

SHENZHEN PRIDE INSTRUMENT INC.,Founded in 2001, our company specializes in development,manufacturing,marketing and sales of measurement instruments and equipments.

We have been operating on the four management concepts: **Quality, Speed, Innovation and Responsibility.**

SHENZHEN PRIDE INSTURUMENT INC. has been devoted to innovations and R&D unceasingly and has accumulated years of experiences in design and manufacturing. Our products sold all over the world,our friends are all over the world. Our company introduced the ISO9001 International quality assurance operation system,our products approved by CE,ROHS.

OUR PRODUCTLINES:

- MEASURING TOOLS
- HARDNESS TESTERS
- METALLOGRAPHIC EQUIPMENTS
- FORCE & TORQUE GAGES
- NDT INSTRUMENTS
- MATERIAL TESTERS
- OPTICAL INSTRUMENTS
- ELECTRICAL INSTRUMENTS
- PAINT EQUIPMENTS



SHENZHEN PRIDE INSTRUMENT INC

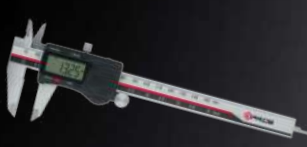
Tel:0086-755-26702126 Fax:0086-755-26736080 CTC:Mr JOE ROGER

Web:www.prideinstrument.com E-mail: sales@prideinstrument.com

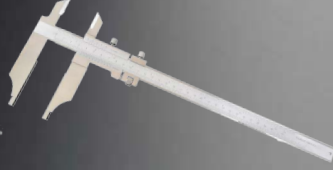
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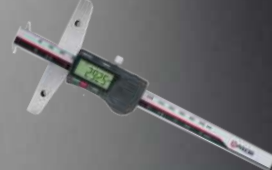
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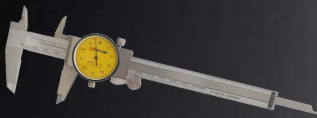


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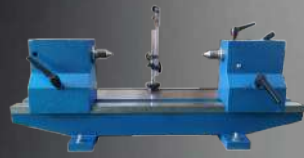
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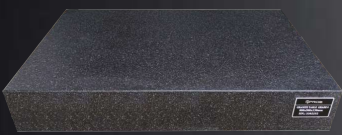


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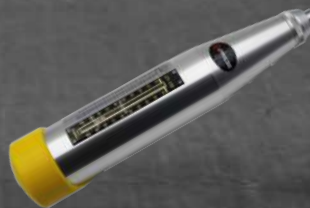
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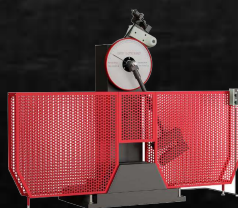
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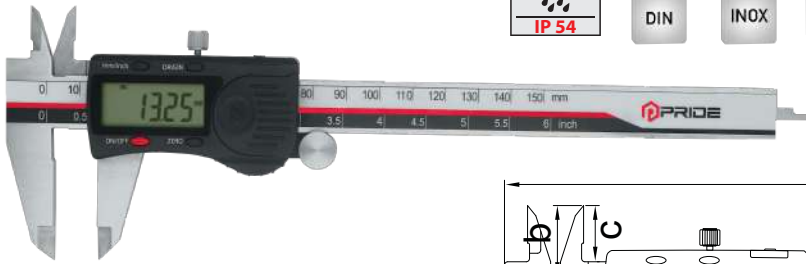




**DIGITAL CALIPER
VERNIER CALIPER
DEPTH CALIPER
DIAL CALIPER
MEASURING TOOL SETS**

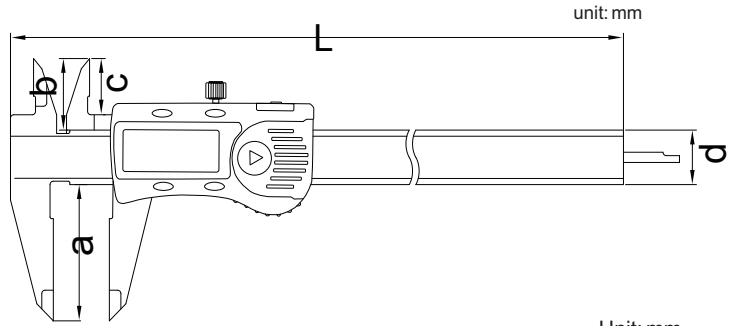


ABSOLUTE DIGITAL CALIPER



FEATURES :

- Measure outside, inside, depth, steps
- Functions: Power switch; Metric-inch conversion; Zero set at any Position.
- Relative and absolute measuring type (ABS)
- Auto power-off.3V Lithium Battery CR2032.
- Conforming standard: **DIN862**



Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy	a	c	b	d	L
P1002-150	150mm/6"	0.01mm/0.0005"	±0.02mm	40	16.5	21	16	236
P1002-200	200mm/8"	0.01mm/0.0005"	±0.02mm	50	19	24	16	286
P1002-300	300mm/12"	0.01mm/0.0005"	±0.03mm	60	20.5	26	16	400

DIGITAL CALIPER

FEATURES:

- 12mm high LCD display
- Zero setting at any position
- Metric/Inch system interchange
- Manual power on/off
- Power on/off at any position, invariable measuring origin (zero)
- Conforming standard: **DIN862**



Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy
P1006-100	100mm/4"	0.01mm/0.0005"	±0.02mm
P1006-150	150mm/6"	0.01mm/0.0005"	±0.02mm
P1006-200	200mm/8"	0.01mm/0.0005"	±0.02mm
P1006-300	300mm/12"	0.01mm/0.0005"	±0.03mm

HIGHT PRECISION DIGITAL CALIPER

FEATURES:

- Measure outside,inside,depth,steps
- Functions: Power switch,Metric-inch conversion, Zero set at any Position
- Relative and absolute measuring type (ABS)
- Auto power-off.3V Lithium Battery
- Data output.
- Resolution:0.005mm
- Conforming standard: **DIN862**



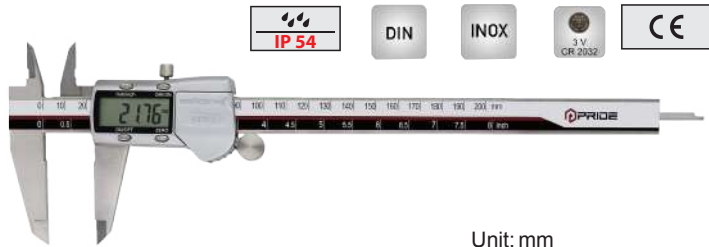
Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy
P1016-150	150mm/6"	0.005mm/0.0002"	±0.020mm
P1016-200	200mm/8"	0.005mm/0.0002"	±0.025mm
P1016-300	300mm/12"	0.005mm/0.0002"	±0.035mm

IP54 WATERPROOF DIGITAL CALIPER

FEATURES:

- Incorporates absolute measurement system
- Can be exposed to water,dust or oil,metal cover
- Power on/off.
- Inch/mm conversion at any position
- Zero-setting at any position.
- Conforming standard: **DIN862**



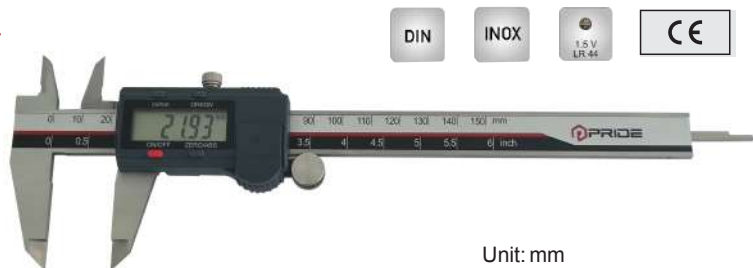
Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy
P1017-150B	150mm/6"	0.01mm/0.0005"	±0.02mm
P1017-200B	200mm/8"	0.01mm/0.0005"	±0.02mm
P1017-300B	300mm/12"	0.01mm/0.0005"	±0.03mm

ABSOLUTE DIGITAL CALIPER

FEATURES:

- Absolute system
- Precision glass scale
- Made stainless steel
- Measures outside, inside, depth and steps
- Functions: ON/OFF; Metric-inch; ZERO/ABS;
- ORIGIN buttons
- Conforming standard: **DIN862**



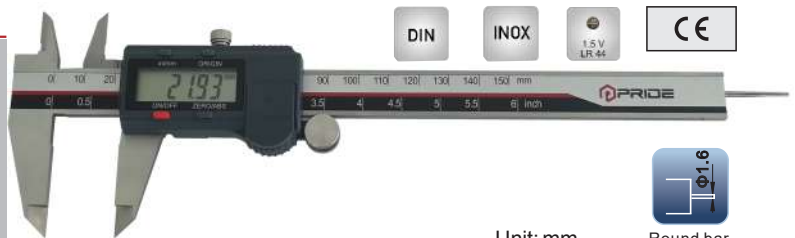
Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy
P1004-150D	150mm/6"	0.01mm/0.0005"	±0.02mm
P1004-200D	200mm/8"	0.01mm/0.0005"	±0.02mm
P1004-300D	300mm/12"	0.01mm/0.0005"	±0.03mm

DIGITAL CALIPER with Round Bar

FEATURES:

- 12mm high LCD display
- Round rod bar Ø1.6mm
- Zero setting at any position
- Metric/Inch system interchange
- Manual power on/off
- Conforming standard: **DIN862**



Unit: mm

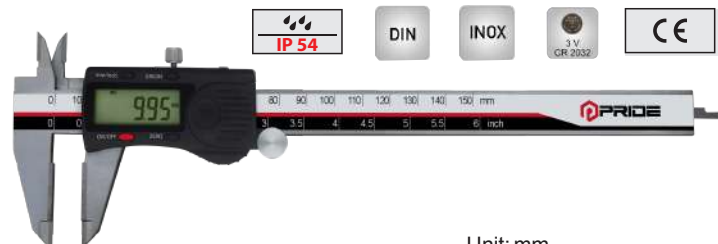


Model No.	Range mm/in	Resolution mm/in	Accuracy
P1003-150R	150mm/6"	0.01mm/0.0005"	±0.02mm
P1003-200R	200mm/8"	0.01mm/0.0005"	±0.02mm
P1003-300R	300mm/12"	0.01mm/0.0005"	±0.03mm

CARBIDED JAWS DIGITAL CALIPER

FEATURES:

- Carbided up and lower jaws
- Manual power on/off
- Metric/Inch system interchange
- Zero Setting at any position



Unit: mm

Model No.	Range mm/in	Resolution mm/in	remarks
P1001-150CT	150mm/6"	0.01mm/0.0005"	---
P1001-200CT	200mm/8"	0.01mm/0.0005"	---
P1001-300CT	300mm/12"	0.01mm/0.0005"	---

IP67 WATERPROOF DIGITAL CALIPER

FEATURES:

- Built to IP67 Class Protection against dust and fluids
- Heavy Duty Stainless steel Design
- Large LCD display 10x30mm
- Measures outside, inside, depth and steps
- Zero setting, mm and inch by 1 button
- Auto-Start And Auto-Off
- Bluetooth optional. P1013-150B is wireless
- Conforming standard: DIN862, JIS B 7507



Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy
P1013-150	150mm/6"	0.01mm/0.0005"	±0.02mm
P1013-200	200mm/8"	0.01mm/0.0005"	±0.02mm
P1013-300	300mm/12"	0.01mm/0.0005"	±0.03mm

IP67 WATERPROOF DIGITAL CALIPER WIRELESS TRANSMISSION

FEATURES:

- Built to IP67 Class Protection against dust and fluids
- Heavy Duty Stainless steel Design
- Large LCD display 10x30mm
- Measures outside, inside, depth and steps
- Zero setting, mm and inch by 1 button
- Auto-Start And Auto-Off
- Bluetooth optional. P1013-150B is wireless
- Conforming standard: DIN862, JIS B 7507



Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy
P1013-150B	150mm/6"	0.01mm/0.0005"	±0.02mm
P1013-200B	200mm/8"	0.01mm/0.0005"	±0.02mm
P1013-300B	300mm/12"	0.01mm/0.0005"	±0.03mm

IP67 WATERPROOF DIGITAL CALIPER

FEATURES:

- Built to IP67 Class Protection against dust and fluids
- Large LCD display 10x30mm
- 3V Lithium battery CR2032, battery life > 1 year
- Measures outside, inside, depth and steps
- Conforming standard: DIN862, JIS B 7507



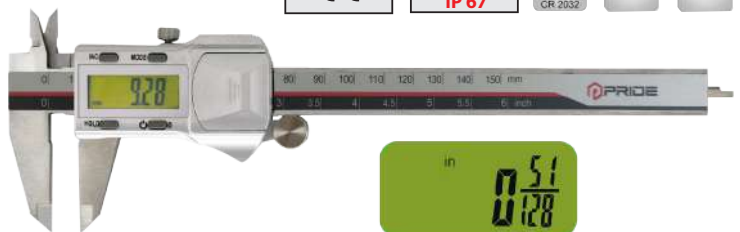
Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy
P1013-150C	150mm/6"	0.001mm/0.0005"	±0.010mm/0.0004"
P1013-200C	200mm/8"	0.001mm/0.0005"	±0.020mm/0.0008"
P1013-300C	300mm/12"	0.001mm/0.0005"	±0.020mm/0.0008"

IP67 WATERPROOF DIGITAL CALIPER

FEATURES:

- Water-protection grade IP67
- 3V Lithium battery CR2032
- With buttons: INC/MODE/HOLD
- On/Off, auto power off
- Fraction (optional). P1013-150F is fraction



Model No.	Range mm/in	Resolution mm/in	Accuracy
P1013-150D	150mm/6"	0.01mm/0.0005"	±0.02mm
P1013-200D	200mm/8"	0.01mm/0.0005"	±0.02mm
P1013-300D	300mm/12"	0.01mm/0.0005"	±0.03mm

DIGITAL CALIPER WITH LIGHT

FEATURES:

- With colorful light background
- Zero setting at any position
- Metric/Inch system interchange
- Manual power on/off
- Power on/off at any position, invariable measuring origin (zero)
- Conforming standard: **DIN862**



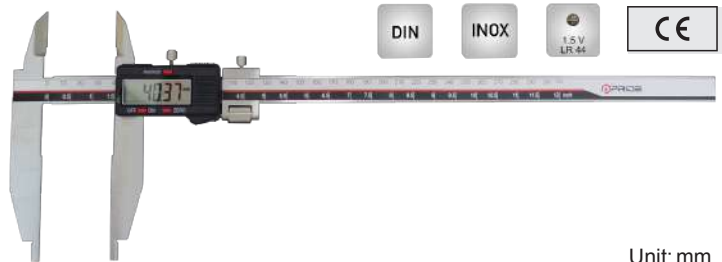
Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy
P1005-150	150mm/6"	0.01mm/0.0005"	±0.02mm
P1005-200	200mm/8"	0.01mm/0.0005"	±0.02mm
P1005-300	300mm/12"	0.01mm/0.0005"	±0.03mm

RUSSIAN TYPE DIGITAL CALIPER

FEATURES:

- Can measure the groove
- Function: Power switch; Metric-inch conversion; Zero set at any Position
- Resolution: 0.01 mm / 0.005 "
- Auto power-off
- Conforming standard: **ГОСТ 166-89**



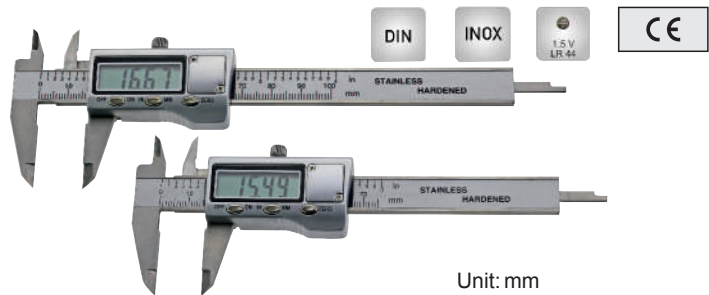
Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy	Jaw length (mm)
P1012-200	0-200mm	0.01mm/0.0005"	±0.03mm	60
P1012-250	0-250mm	0.01mm/0.0005"	±0.03mm	60
P1012-300	0-300mm	0.01mm/0.0005"	±0.03mm	60

MINI DIGITAL CALIPER

FEATURES:

- Made stainless steel
- Measures outside, inside, depth and steps
- Functions: ON/OFF; Metric-inch; ZERO;



Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy
P1003-70	0-70mm	0.01mm/0.0005"	±0.03mm
P1003-100	0-100mm	0.01mm/0.0005"	±0.03mm

HEAVY DIGITAL CALIPER

FEATURES:

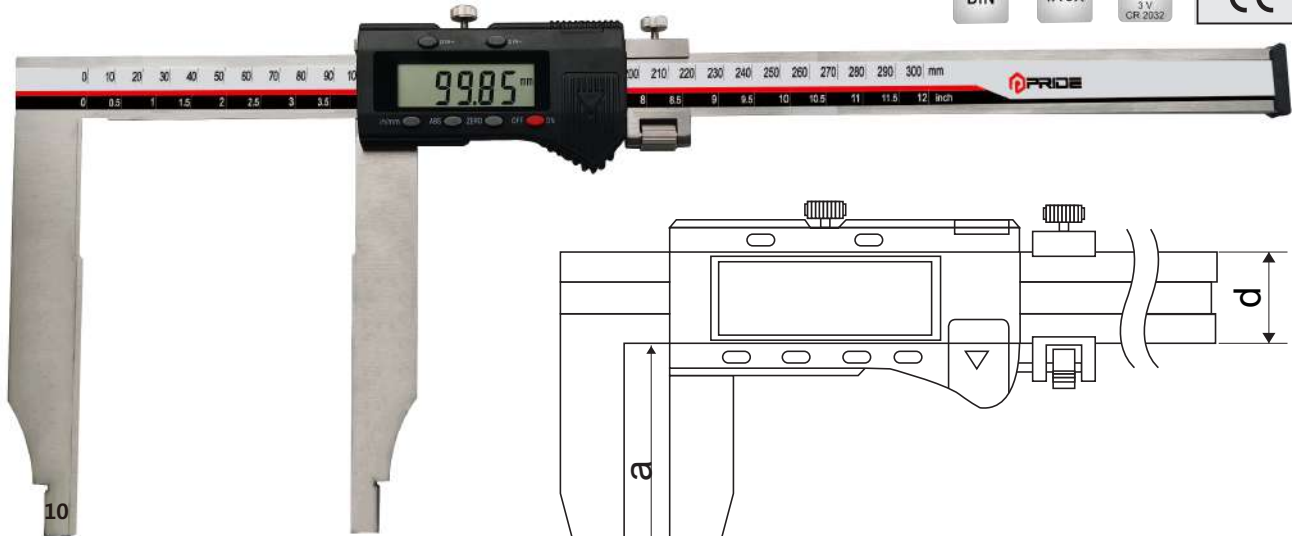
- Measure outside, inside
- Functions: Power switch; Metric-inch conversion; Zero set at any Position.



Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy	Jaw length (mm)
P1022-200	0-200mm	0.01mm/0.0005"	±0.03mm	75
P1022-300	0-300mm	0.01mm/0.0005"	±0.03mm	75

HEAVY DIGITAL CALIPER



FEATURES:

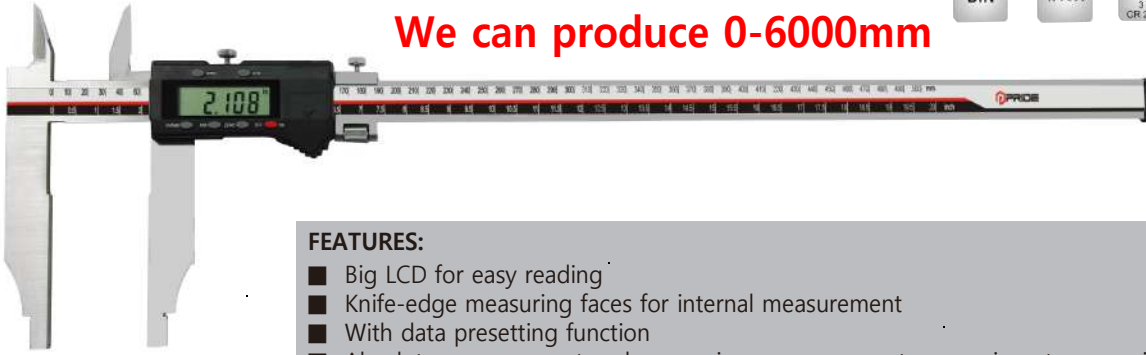
- With step measurement
- With data presetting function
- Absolute measurement and comparison measurement conversion at any position
- Metric/Inch system conversion at any position

We can produce 0-6000mm

unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy	a Jaw length(mm)	d	e	f
P1026-300-1	0-300mm/12"	0.01/0.0005"	±0.04mm	100mm	24	10	18
P1026-300-2	0-300mm/12"	0.01/0.0005"	±0.05mm	150mm	24	10	18
P1026-500-1	0-500mm/20"	0.01/0.0005"	±0.05mm	100mm	24	10	18
P1026-500-3	0-500mm/20"	0.01/0.0005"	±0.05mm	150mm	24	10	18
P1026-500-4	0-500mm/20"	0.01/0.0005"	±0.05mm	200mm	31	10	24
P1026-500-5	0-500mm/20"	0.01/0.0005"	±0.07mm	300mm	31	10	24
P1026-600-1	0-600mm/24"	0.01/0.0005"	±0.05mm	100mm	24	10	18
P1026-600-3	0-600mm/24"	0.01/0.0005"	±0.05mm	150mm	24	10	18
P1026-600-4	0-600mm/24"	0.01/0.0005"	±0.06mm	200mm	31	10	24
P1026-600-5	0-600mm/24"	0.01/0.0005"	±0.07mm	300mm	42	10	24
P1026-600-6	0-600mm/24"	0.01/0.0005"	±0.08mm	400mm	42	10	24
P1026-800-2	0-800mm/32"	0.01/0.0005"	±0.06mm	150mm	31	10	24
P1026-800-3	0-800mm/32"	0.01/0.0005"	±0.08mm	200mm	31	10	24
P1026-800-4	0-800mm/32"	0.01/0.0005"	±0.08mm	300mm	42	10	24
P1026-1000-2	0-1000mm/40"	0.01/0.0005"	±0.07mm	150mm	31	10	24
P1026-1000-3	0-1000mm/40"	0.01/0.0005"	±0.09mm	200mm	31	10	24
P1026-1000-4	0-1000mm/40"	0.01/0.0005"	±0.07mm	300mm	42	10	24
P1026-1000-5	0-1000mm/40"	0.01/0.0005"	±0.09mm	400mm	42	10	24
P1026-1500-2	0-1500mm/60"	0.01/0.0005"	±0.11mm	150mm	42	10	24
P1026-1500-3	0-1500mm/60"	0.01/0.0005"	±0.11mm	200mm	42	10	24
P1026-1500-4	0-1500mm/60"	0.01/0.0005"	±0.16mm	300mm	42	10	24
P1026-2000-1	0-2000mm/80"	0.01/0.0005"	±0.14mm	150mm	42	10	24
P1026-2000-2	0-2000mm/80"	0.01/0.0005"	±0.14mm	200mm	42	10	24
P1026-2000-3	0-2000mm/80"	0.01/0.0005"	±0.18mm	300mm	42	10	24
P1026-2500-1	0-2500mm/100"	0.01/0.0005"	±0.22mm	150mm	42	10	24
P1026-3000-1	0-3000mm/120"	0.01/0.0005"	±0.26mm	200mm	50	10	24
P1026-3000-3	0-3000mm/120"	0.01/0.0005"	±0.27mm	300mm	50	10	24
P1026-4000-1	0-4000mm/160"	0.01/0.0005"	±0.34mm	200mm	50	10	24
P1026-4000-3	0-4000mm/160"	0.01/0.0005"	±0.34mm	300mm	50	10	24

HEAVY DIGITAL CALIPER



We can produce 0-6000mm

FEATURES:

- Big LCD for easy reading
- Knife-edge measuring faces for internal measurement
- With data presetting function
- Absolute measurement and comparison measurement conversion at any position
- Metric/Inch system conversion at any position

Model No.	Range mm/in	Resolution mm/in	Jaw length (mm)	Unit: mm
P1028-300	0-300mm/12"	0.01/0.0005"	90	
P1028-400	0-400mm/16"	0.01/0.0005"	100	
P1028-500	0-500mm/20"	0.01/0.0005"	100	
P1028-501	0-500mm/20"	0.01/0.0005"	150	
P1028-600	0-600mm/24"	0.01/0.0005"	100	
P1028-601	0-600mm/24"	0.01/0.0005"	150	
P1028-800	0-800mm/32"	0.01/0.0005"	150	
P1028-1000	0-1000mm/40"	0.01/0.0005"	150	
P1028-1001	0-1000mm/40"	0.01/0.0005"	200	
P1028-1500	0-1500mm/60"	0.01/0.0005"	150	
P1028-1501	0-1500mm/60"	0.01/0.0005"	200	
P1028-1502	0-1500mm/60"	0.01/0.0005"	300	
P1028-2000	0-2000mm/80"	0.01/0.0005"	150	
P1028-2001	0-2000mm/80"	0.01/0.0005"	200	

HEAVY DIGITAL CALIPER



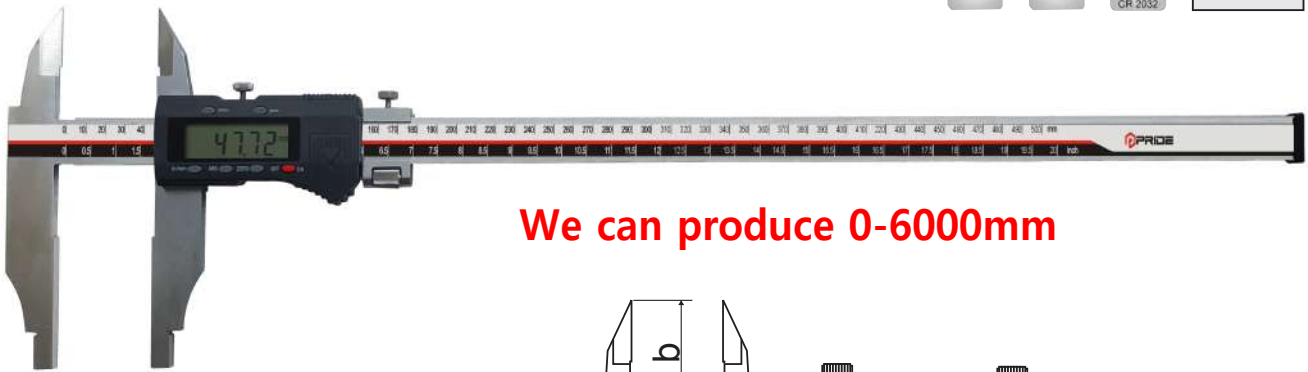
We can produce 0-6000mm

FEATURES:

- Big LCD for easy reading
- Knife-edge measuring faces for internal measurement
- With data presetting function
- Absolute measurement and comparison measurement conversion at any position
- Metric/Inch system conversion at any position

Model No.	Range mm/in	Resolution mm/in	Jaw length (mm)	Unit: mm
P1030-500	0-500mm/20"	0.01/0.0005"	100	
P1030-501	0-500mm/20"	0.01/0.0005"	150	
P1030-600	0-600mm/24"	0.01/0.0005"	100	
P1030-601	0-600mm/24"	0.01/0.0005"	150	
P1030-1000	0-1000mm/40"	0.01/0.0005"	150	
P1030-1001	0-1000mm/40"	0.01/0.0005"	200	
P1030-1500	0-1500mm/60"	0.01/0.0005"	150	
P1030-1501	0-1500mm/60"	0.01/0.0005"	200	
P1030-2000	0-2000mm/60"	0.01/0.0005"	200	

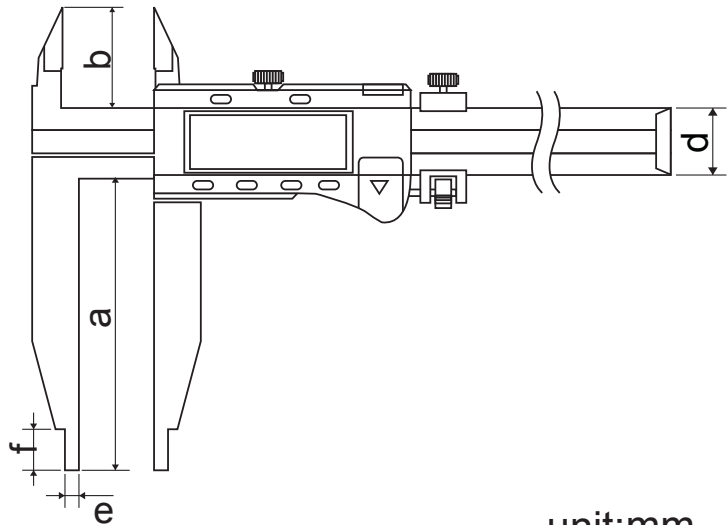
HEAVY DIGITAL CALIPER



We can produce 0-6000mm

FEATURES:

- Knife-edge measuring faces for internal measurement
- With data presetting function
- Absolute measurement and comparison measurement conversion at any position
- Metric/Inch system conversion at any position



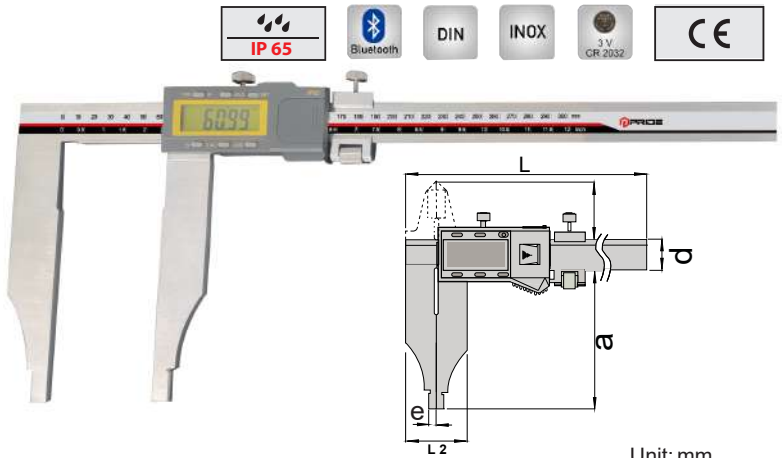
unit:mm

Model No.	Range mm/in	Resolution mm/in	Accuracy	a Jaw length(mm)	b	d	e	f
P1027-300-1	0-300mm/12"	0.01/0.0005"	±0.04	90	45	20	5	12
P1027-300-2	0-300mm/12"	0.01/0.0005"	±0.05	150	56	24	10	18
P1027-400-1	0-400mm/16"	0.01/0.0005"	±0.04	100	56	24	10	18
P1027-500-1	0-500mm/20"	0.01/0.0005"	±0.05	100	56	24	10	18
P1027-500-3	0-500mm/20"	0.01/0.0005"	±0.05	150	56	24	10	18
P1027-500-4	0-500mm/20"	0.01/0.0005"	±0.07	200	67	31	10	24
P1027-600-1	0-600mm/24"	0.01/0.0005"	±0.05	100	56	24	10	18
P1027-600-3	0-600mm/24"	0.01/0.0005"	±0.05	150	56	24	10	18
P1027-600-4	0-600mm/24"	0.01/0.0005"	±0.07	200	67	31	10	24
P1027-800-1	0-800mm/32"	0.01/0.0005"	±0.06	100	67	31	10	24
P1027-800-2	0-800mm/32"	0.01/0.0005"	±0.06	150	67	31	10	24
P1027-1000-2	0-1000mm/40"	0.01/0.0005"	±0.07	150	67	31	10	24
P1027-1000-3	0-1000mm/40"	0.01/0.0005"	±0.09	200	67	31	10	24
P1027-1500-2	0-1500mm/60"	0.01/0.0005"	±0.11	150	80	42	10	24
P1027-1500-3	0-1500mm/60"	0.01/0.0005"	±0.11	200	80	42	10	24
P1027-1500-4	0-1500mm/60"	0.01/0.0005"	±0.16	300	80	42	10	24
P1027-2000-1	0-2000mm/80"	0.01/0.0005"	±0.14	150	80	42	10	24
P1027-2000-2	0-2000mm/80"	0.01/0.0005"	±0.14	200	80	42	10	24
P1027-2000-3	0-2000mm/80"	0.01/0.0005"	±0.20	300	80	42	10	24
P1027-3000-1	0-3000mm/120"	0.01/0.0005"	±0.26	150	80	50	10	24
P1027-3000-3	0-3000mm/120"	0.01/0.0005"	±0.27	300	80	50	10	24

LONG SIZE DIGITAL CALIPER IP65

FEATURES:

- With inductive measuring system
- IP 65 protection, water and dust proof
- Made of stainless steel, hardened
- With fine adjustment
- Reading: 0.01 mm or 0.0005"
- With mm/inch, hold, set, on/off, 0/inc and data button
- With data output RB 6
- If models with W, then they are wireless data transmission, e.g. P1029-300A1W



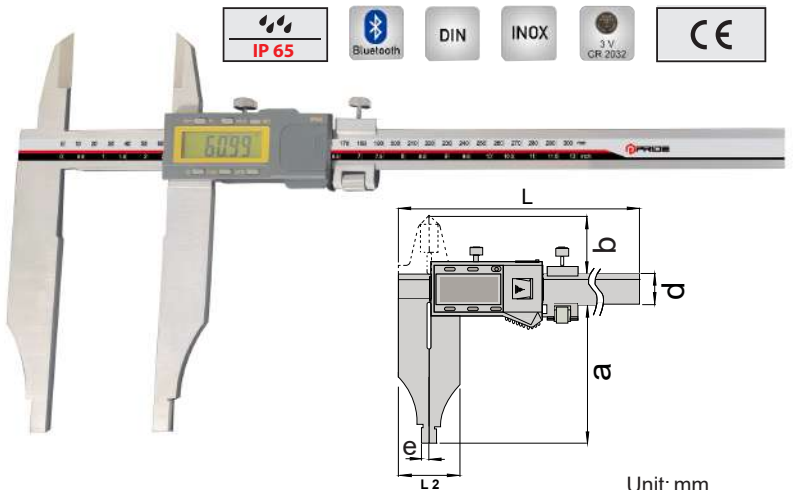
Unit: mm

Model No.	Range mm/in	Accuracy	Jaw length(mm)	d	e	L2	L
P1029-300A1	300mm/0-12"	0.03mm	90mm	20	5	40	445
P1029-300A2	300mm/0-12"	0.05mm	150mm	20	5	40	445
P1029-600A1	600mm/0-24"	0.05mm	150mm	24	10	52	770
P1029-600A2	600mm/0-24"	0.06mm	200mm	24	10	52	770
P1029-1000A1	1000mm/0-40"	0.07mm	150mm	30	10	60	1210
P1029-1000A2	1000mm/0-40"	0.09mm	200mm	30	10	60	1210
P1029-300A1W	300mm/0-12"	0.03mm	90mm	20	5	40	445
P1029-300A2W	300mm/0-12"	0.05mm	150mm	20	5	40	445
P1029-600A1W	600mm/0-24"	0.05mm	150mm	24	10	52	770
P1029-600A2W	600mm/0-24"	0.06mm	200mm	24	10	52	770
P1029-1000A1W	1000mm/0-40"	0.07mm	150mm	30	10	60	1210
P1029-1000A2W	1000mm/0-40"	0.09mm	200mm	30	10	60	1210

LONG SIZE DIGITAL CALIPER IP65

FEATURES:

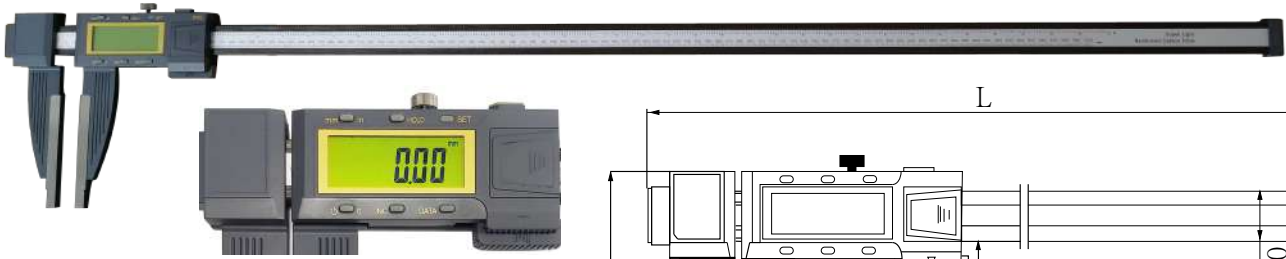
- With inductive measuring system
- IP 65 protection, water and dust proof
- Made of stainless steel, hardened
- With fine adjustment
- Reading: 0.01 mm or 0.0005"
- With mm/inch, hold, set, on/off, 0/inc and data button
- With data output RB 6
- If models with W, then they are wireless data transmission, e.g. P1029-300B1W



Unit: mm

Model No.	Range mm/in	Accuracy	a Jaw length(mm)	b	d	e	L2	L
P1029-300B1	300mm/0-12"	0.03mm	90mm	38	20	5	40	445
P1029-300B2	300mm/0-12"	0.05mm	150mm	38	20	5	40	445
P1029-600B1	600mm/0-24"	0.05mm	150mm	60	24	10	52	770
P1029-600B2	600mm/0-24"	0.06mm	200mm	60	24	10	52	770
P1029-1000B1	1000mm/0-40"	0.07mm	150mm	63	30	10	60	1210
P1029-1000B2	1000mm/0-40"	0.09mm	200mm	63	30	10	60	1210
P1029-300B1W	300mm/0-12"	0.03mm	90mm	38	20	5	40	445
P1029-300B2W	300mm/0-12"	0.05mm	150mm	38	20	5	40	445
P1029-600B1W	600mm/0-24"	0.05mm	150mm	60	24	10	52	770
P1029-600B2W	600mm/0-24"	0.06mm	200mm	60	24	10	52	770
P1029-1000B1W	1000mm/0-40"	0.07mm	150mm	63	30	10	60	1210
P1029-1000B2W	1000mm/0-40"	0.09mm	200mm	63	30	10	60	1210

ULTRA-CARBON FIBRE DIGITAL CALIPER IP65



FEATURES:

- With inductive measuring system
- IP 65 protection
- 3V lithium battery CR2032
- Made of carbon fibre
- Built in wireless transmission
- Provided with a fine-adjustment carriage
- Reading:0.01 mm or 0.0005"
- With mm/inch,hold,set,on/off,o/inc and data buttons
- If models with W,then they are wireless data transmission,e.g.P1012-600W

Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy	a Jaw length	L	e
P1012-600	0-600MM/0-24"	0.01mm/0.0005"	0.05mm/0.002"	140mm	826	20
P1012-1000	0-1000MM/0-40"	0.01mm/0.0005"	0.06mm/0.0025"	140mm	1226	20
P1012-1001	0-1000MM/0-40"	0.01mm/0.0005"	0.10mm/0.004"	200mm	1226	20
P1012-1500	0-1500MM/0-60"	0.01mm/0.0005"	0.13mm/0.0055"	150mm	1736	20
P1012-1501	0-1500MM/0-60"	0.01mm/0.0005"	0.17mm/0.007"	300mm	1736	20
P1012-2000	0-2000MM/0-80"	0.01mm/0.0005"	0.17mm/0.007"	200mm	2246	20
P1012-2001	0-2000MM/0-80"	0.01mm/0.0005"	0.20mm/0.008"	300mm	2246	20
P1012-2500	0-2500MM/0-100"	0.01mm/0.0005"	0.26mm	300mm	2780	20
P1012-3000	0-3000MM/0-120"	0.01mm/0.0005"	0.30mm	300mm	3300	20
P1012-600W	0-600MM/0-24"	0.01mm/0.0005"	0.05mm/0.002"	140mm	826	20
P1012-1000W	0-1000MM/0-40"	0.01mm/0.0005"	0.06mm/0.0025"	140mm	1226	20
P1012-1001W	0-1000MM/0-40"	0.01mm/0.0005"	0.10mm/0.004"	200mm	1226	20
P1012-1500W	0-1500MM/0-60"	0.01mm/0.0005"	0.13mm/0.0055"	150mm	1736	20
P1012-1501W	0-1500MM/0-60"	0.01mm/0.0005"	0.17mm/0.007"	300mm	1736	20
P1012-2000W	0-2000MM/0-80"	0.01mm/0.0005"	0.17mm/0.007"	200mm	2246	20
P1012-2001W	0-2000MM/0-80"	0.01mm/0.0005"	0.20mm/0.008"	300mm	2246	20
P1012-2500W	0-2500MM/0-100"	0.01mm/0.0005"	0.26mm	300mm	2780	20
P1012-3000W	0-3000MM/0-120"	0.01mm/0.0005"	0.30mm	300mm	3300	20

OUTSIDE GROOVE DIGITAL CALIPER IP67

FEATURES:

- Protection grade IP67
- 3V Lithium battery CR2032
- Measure the outside dimension such as outside slot
- Built in wireless transmission (optional). P1020-150W is wireless data



Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy mm	Jaw length(mm)
P1020-150	0-150mm/6"	0.01mm/0.0005"	0.03MM/0.0015"	40
P1020-200	0-200mm/8"	0.01mm/0.0005"	0.03MM/0.0015"	50
P1020-300	0-300mm/12"	0.01mm/0.0005"	0.04MM/0.0015"	60

INSIDE GROOVE DIGITAL CALIPER IP67



FEATURES:

- Protection grade IP67
- 3V Lithium battery CR2032
- Measure the inside dimension
- Built in wireless transmission (optional). P1021-150W is wireless data



Unit: mm

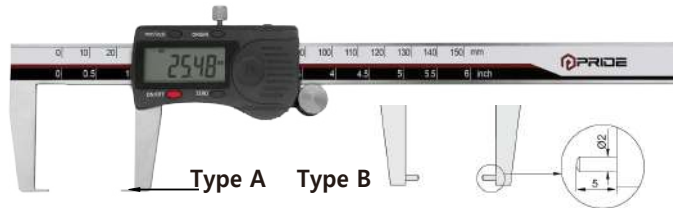
Model No.	Range mm/in	Resolution mm/in	Accuracy mm	Jaw length(mm)
P1021-150	20-150mm/6"	0.01mm/0.0005"	0.03MM/0.0015"	46
P1021-200	25-200mm/8"	0.01mm/0.0005"	0.03MM/0.0015"	56
P1021-300	30-300mm/12"	0.01mm/0.0005"	0.04MM/0.0015"	66

OUTSIDE GROOVE DIGITAL CALIPER



FEATURES:

- Manual power on/off
- Metric/Inch system interchange at any position
- Zero setting at any position
- With pointed jaws Type A and cylinder jaws Type B
- Easy to measure the width of an outside groove



Unit: mm

Model No.	Range mm/in	Resolution mm/in	Jaw length(mm)
P1031-150A	0-150mm/6"	0.01mm/0.0005"	40
P1031-200A	0-200mm/8"	0.01mm/0.0005"	50
P1031-300A	0-300mm/12"	0.01mm/0.0005"	60
P1031-500A	0-500mm/20"	0.01mm/0.0005"	150
P1031-150B	0-150mm/6"	0.01mm/0.0005"	40
P1031-200B	0-200mm/8"	0.01mm/0.0005"	50
P1031-300B	0-300mm/12"	0.01mm/0.0005"	60

INSIDE GROOVE DIGITAL CALIPER



FEATURES:

- Manual power on/off
- Metric/Inch system interchange at any position
- Zero setting at any position
- With pointed jaws and cylinder jaws
- Easy to measure the width of an inside groove



Unit: mm

Model No.	Range mm/in	Resolution mm/in	Jaw length mm
P1032-150A	22-150mm/6"	0.01mm/0.0005"	30
P1032-200A	25-200mm/8"	0.01mm/0.0005"	40
P1032-300A	30-300mm/12"	0.01mm/0.0005"	50
P1032-500A	40-500mm/20"	0.01mm/0.0005"	150

POINTED-JAW DIGITAL CALIPER



FEATURES:

- Manual power on/off
- Metric/Inch system interchange at any position
- Zero setting at any position
- With pointed jaws



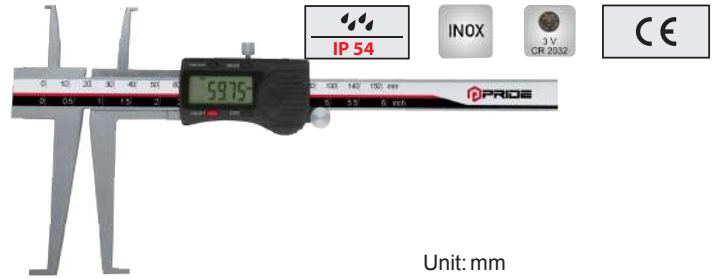
Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy
P1039-150	150mm/6"	0.01mm/0.0005"	±0.03mm
P1039-200	200mm/8"	0.01mm/0.0005"	±0.03mm
P1039-300	300mm/12"	0.01mm/0.0005"	±0.04mm

DOUBLE INSIDE GROOVE DIGITAL CALIPER

FEATURES:

- Manual power on/off
- Metric/Inch system interchange at any position
- Zero setting at any position
- Easy to measure the width of an inside groove



Unit: mm

Model No.	Range mm/in	Resolution mm/in	LOWER JAW	Accuracy
P1034-150	9-150mm	0.01mm/0.0005"	70mm	±0.03mm
P1034-200	9-200mm	0.01mm/0.0005"	70mm	±0.03mm
P1034-300	9-300mm	0.01mm/0.0005"	70mm	±0.04mm

UNIVERSAL GROOVE DIGITAL CALIPER

FEATURES:

- Manual power on/off, Zero setting
- Metric/Inch system interchange at any position
- Universal jaws for measuring grooves
- Distance between two edges of an internal groove can be easily obtained



Unit: mm

Model No.	Range mm/in	Resolution mm/in
P1038-150	150mm/6"	0.01mm/0.0005"
P1038-200	200mm/8"	0.01mm/0.0005"

FOIL DIGITAL CALIPER

FEATURES:

- Measure narrow spring groove
- Manual power on/off
- Metric/Inch system interchange at any position
- Zero setting at any position



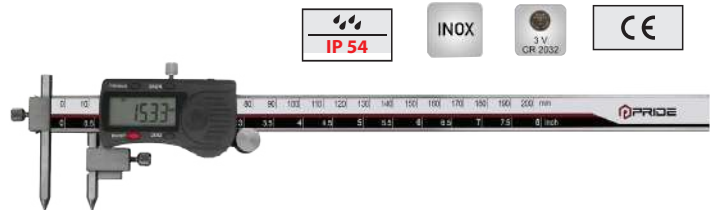
Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy
P1040-150	150mm/6"	0.01mm/0.0005"	±0.03mm
P1040-200	200mm/8"	0.01mm/0.0005"	±0.03mm
P1040-300	300mm/12"	0.01mm/0.0005"	±0.04mm

CENTER DISTANCE DIGITAL CALIPER

FEATURES:

- Manual power on/off, Zero setting at any position
- Metric/Inch system interchange at any position
- Center distance of two holes can be easily obtained directly by moving the slider
- Distance between hole and plane can be obtained
- To measure holes with diameters bigger than Ø 5mm, anvil bigger than Ø5mm is necessary



Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy
P1042-150	5-150mm/0.2-6"	0.01mm/0.0005"	±0.03mm
P1042-151	10-150mm/0.4-6"	0.01mm/0.0005"	±0.03mm
P1042-200	5-200mm/0.2-8"	0.01mm/0.0005"	±0.04mm
P1042-201	10-200mm/0.4-8"	0.01mm/0.0005"	±0.04mm
P1042-300	5-300mm/0.2-12"	0.01mm/0.0005"	±0.05mm
P1042-301	10-300mm/0.4-12"	0.01mm/0.0005"	±0.05mm
P1042-500	5-500mm/0.2-20"	0.01mm/0.0005"	±0.08mm
P1042-501	10-500mm/0.2-20"	0.01mm/0.0005"	±0.08mm
P1042-1000	10-1000mm/0.4-40"	0.01mm/0.0005"	±0.13mm
P1042-1001	20-1000mm/0.8-40"	0.01mm/0.0005"	±0.13mm

ARC OUTSIDE DIGITAL CALIPER

FEATURES:

- Facilitate measure the radius of a workpiece which radius is shorter than 180
- Power on/off
- Zero-setting at any position



Unit: mm

Model No.	Range mm/in	Resolution mm/in
P1036-150	3-150mm/0.3-6"	0.01mm/0.0005"
P1036-200	3-200mm/0.3-8"	0.01mm/0.0005"

CENTER DISTANCE AND EDGE CENTER DISTANCE DIGITAL CALIPER

FEATURES:

- Manual power on/off
- Metric/Inch system interchange at any position
- Measure center distance of two holes, also can measure hole two sides distance



Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy
P1044-150	10-150mm	0.01mm/0.0005"	±0.04mm
P1044-200	10-200mm	0.01mm/0.0005"	±0.04mm
P1044-300	10-300mm	0.01mm/0.0005"	±0.05mm

PLATE ANVIL DIGITAL CALIPER

FEATURES:

- Manual power on/off
- Metric/Inch system interchange at any position
- Zero setting at any position
- With data output interface
- Measure the half-soft board (foamed plastic, sponge, plank)



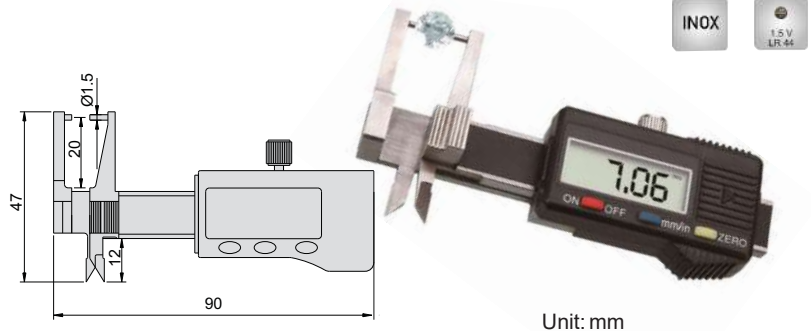
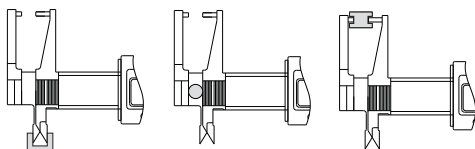
Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy	Jaw length (mm)	Remarks
P1051-150	150mm/6"	0.01mm/0.0005"	±0.04mm	50	PLATE Anvil
P1051-200	200mm/8"	0.01mm/0.0005"	±0.05mm	80	
P1051-300	300mm/12"	0.01mm/0.0005"	±0.06mm	120	

PEARL DIGITAL GAUGE

FEATURES:

- Used to measure small things, e.g. pearls



Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy
P5066-25	0-25mm/1"	0.01mm/0.0005"	±0.03

DIGITAL GEAR TOOTH CALIPER

FEATURES:

- Facilitate measurement of gear thickness
- Power on/off
- Inch/mm conversion at any position
- Zero-setting at any position
- Data output



INOX

1.5 V
LR 44

CE

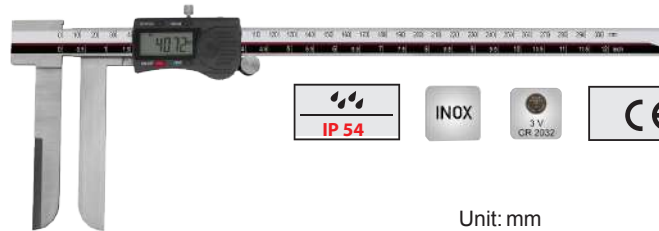
Unit: mm

Model No.	Range mm/in	Resolution mm/in
P1048-25	m1-26mm	0.01mm/0.0005"
P1048-50	m5-50mm	0.01mm/0.0005"

LONG JAW INSIDE DIGITAL CALIPER

FEATURES:

- With long jaws, it's easy to obtain the diameter of deep hole



IP 54

INOX

3 V
CR 2032

CE

Unit: mm

Model No.	Range mm/in	Resolution mm/in	Jaw length mm
P1041-150	15-150mm	0.01mm/0.0005"	60
P1041-151	20-150mm	0.01mm/0.0005"	90
P1041-200	18-200mm	0.01mm/0.0005"	75
P1041-201	22-200mm	0.01mm/0.0005"	100
P1041-300	20-300mm	0.01mm/0.0005"	90
P1041-301	22-300mm	0.01mm/0.0005"	120
P1041-302	25-300mm	0.01mm/0.0005"	150
P1041-500	22-500mm	0.01mm/0.0005"	100
P1041-501	25-500mm	0.01mm/0.0005"	150
P1041-502	35-500mm	0.01mm/0.0005"	200

DIGITAL MARKING CALIPER

FEATURES:

- Hardened stainless steel
- Exchangeable hard metal needle
- Satin chrome plated
- Carbide scriber tip



INOX

1.5 V
LR 44

CE

Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy
P1066-150	0-150mm/6"	0.01mm/0.0005"	±0.03
P1066-200	0-200mm/8"	0.01mm/0.0005"	±0.03

DIGITAL TUBE CALIPER

FEATURES:

- To measure tube wall thickness
- Zero setting at any position
- Metric/Inch system conversion at any position



IP 54

INOX

3 V
CR 2032

CE

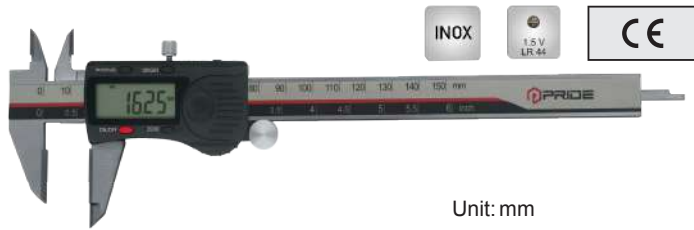
Unit: mm

Model No.	Range mm/in	Resolution mm/in	Jaw length mm
P1033-150	0-150mm/6"	0.01mm/0.0005"	30mm

SCRIBING DIGITAL CALIPER

FEATURES:

- Carbided measuring faces
- Measuring blade for inside measurements
- Slide and beam made of hardened stainless steel
- Step measuring function
- Resolution 0.01mm/0.0005"



Unit: mm

Model No.	Range mm/in	Accuracy
P1052-150	0-150mm	±0.03mm
P1052-200	0-200mm	±0.03mm
P1052-300	0-300mm	±0.04mm

DIGITAL ROPE CALIPER

FEATURES:

- Manual power on/off
- Metric/Inch system interchange at any position
- Zero setting at any position
- Can measure for metal rope etc



Unit: mm

Model No.	Range mm/in	Resolution mm/in	Jaw size mm
P1047-150-30	150mm/6"	0.01mm/0.0005"	20x30mm
P1047-150-40	150mm/6"	0.01mm/0.0005"	30x40mm
P1047-200-40	200mm/8"	0.01mm/0.0005"	30x40mm
P1047-200-50	200mm/8"	0.01mm/0.0005"	40x50mm
P1047-300-60	300mm/12"	0.01mm/0.0005"	50x60mm
P1047-300-90	300mm/12"	0.01mm/0.0005"	20x90mm
P1047-300-50	300mm/12"	0.01mm/0.0005"	40x60mm

OFFSET DIGITAL CALIPER

FEATURES:

- Manual power on/off
- Metric/Inch system interchange at any position
- Zero setting at any position
- With pointed jaws
- Main scale jaw can be slid up and down to facilitate measurement of stepped sections



Unit: mm

Model No.	Range mm/in	Resolution mm/in
P1037-150	150mm/6"	0.01mm/0.0005"
P1037-200	200mm/8"	0.01mm/0.0005"
P1037-300	300mm/12"	0.01mm/0.0005"
P1037-500	500mm/20"	0.01mm/0.0005"

DISC BRAKE DIGITAL CALIPER

FEATURES:

- To measure the depth of grooves on the disc brake
- Zero setting at any position
- Metric/Inch system conversion at any position



Unit: mm

Model No.	Range mm	Resolution mm/in
P1053-60	0-60mm	0.01mm/0.0005"

DISC BRAKE DIGITAL CALIPER

FEATURES:

- To measure the depth of grooves on the disc brake
- Zero setting at any position
- Metric/Inch system conversion at any position



Unit: mm

Model No.	Range mm	Resolution mm/in
P1053-100	0-100mm	0.01mm/0.0005"

DISC BRAKE DIGITAL CALIPER

FEATURES:

- To measure disc thickness (external) and small drums (internal)
- Zero setting at any position
- Metric/Inch system conversion at any position



Unit: mm

Model No.	Range mm	Resolution mm/in
P1053-150	0-150mm	0.01mm/0.0005"

DISC BRAKE DIGITAL CALIPER

FEATURES:

- To measure disc thickness (external) and small/medium sized drums (internal)
- Zero setting at any position
- Metric/Inch system conversion at any position



Unit: mm

Model No.	Range mm	Resolution mm/in
P1053-300	0-300mm	0.01mm/0.0005"

DIGITAL WEDGE FEELER

FEATURES:

- Special for measuring groove width dimension
- Function: Power switch; Metric-inch conversion; Zero set at any Position
- Resolution: 0.01 mm / 0.005 "
- Auto power-off.3V Lithium Battery CR2032



Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy
P1054-10A	1-10mm	0.01mm/0.0005"	±0.02mm
P1054-20A	10-20mm	0.01mm/0.0005"	±0.02mm
P1054-30A	20-30mm	0.01mm/0.0005"	±0.03mm
P1054-40A	30-40mm	0.01mm/0.0005"	±0.03mm

DIGITAL R CALIPER

FEATURES:

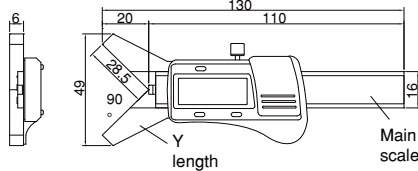
- IP54 protection
- Measure radius gauge
- LCD display hold function
- Used for measuring arc radius less than 180°
- 3V lithium battery CR2032, battery life > 1 year
- Measurements can be made if about 17% of the total circumference is available



Unit: mm

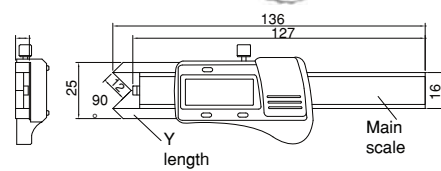
Model No.	Range mm/in	Resolution mm/in	Accuracy	A	B	C	L
P1012-150	3-150mm	0.01mm/0.0005"	±0.06mm	41	20	39	160
P1012-310	3-300mm	0.01mm/0.0005"	±0.10mm	61	40	77	242

Digital CR Caliper PR1525



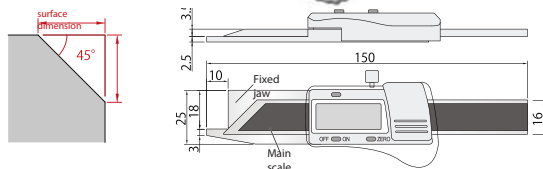
Model No.	PR1525
C-face dimension measurement range	Chamfering angle 45 degrees C 0.01 to C 15.00 of 90 degrees
R dimension measurement range	R R 0.01 to R 2 5.00 circumscribing the work angle of 90 degrees
Size	R 0.6 to R 25.00 circumscribing the circle or work angle within 90 degrees
Dimensions (thickness)	130L x 49W (mm) Y scale body 6mm / main measure 2.5mm
Minimal display	C = 0.01 / R = 0.01
Measurement accuracy	C = ± 0.05 / R = ± 0.08
Dust and waterproof standard	IP50
Material	Stainless steel (SUS420J2)
Battery life used	3V lithium battery (CR2032) 1 piece 1000 hours
accessories	Master gauge for calibration ($\Phi 20 \pm 3 \mu\text{m} \times 8 \text{L}$)

Digital CR Caliper PR0508



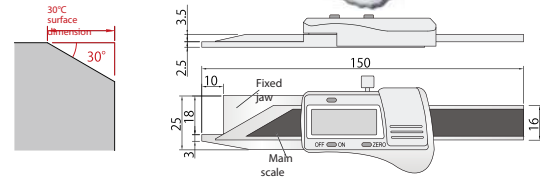
Model No.	PR0508
C-face dimension measurement range	Chamfering angle 45 degrees C 0.01 to C 5.00 with a circumscribed angle of 90 degrees
R dimension measurement range	R R 0.01 to R 8.00 circumscribing the work angle of 90 degrees
Size	R 0.6 to R 8.00 circumscribing the circle or the work angle within 90 degrees
Dimensions (thickness)	136L x 25W (mm) Y scale body 6mm / main measure 2.5mm
Minimal display	C = 0.01 / R = 0.01
Measurement accuracy	C = ± 0.05 / R = ± 0.08
Dust and waterproof standard	IP50
Material	Stainless steel (SUS420J2)
Battery life used	3V lithium battery (CR2032) 1 piece 1000 hours
accessories	Master gauge for calibration ($\Phi 20 \pm 3 \mu\text{m} \times 8 \text{L}$)

Digital C Caliper P4505



Model No.	P4505
Measurement target	Chamfering angle 45 degrees with a circumscribed angle of 90 degrees
range of measurement	C0.01-C5.00
Min display	C 0.01
Measurement accuracy	C ± 0.05
Material / dimension	Stainless steel (SUS420J2) 150mmL x 25mmW Fixing jaw thickness 2.5mm Length measure 3.5mm
Dust and waterproof standard	IP50
Automatic power on / off	When the scale is moved automatically ON, after 5 minutes automatically OFF
Battery life used	One 3V lithium battery (CR2032), battery life 1000 hours

Digital C Caliper P3005

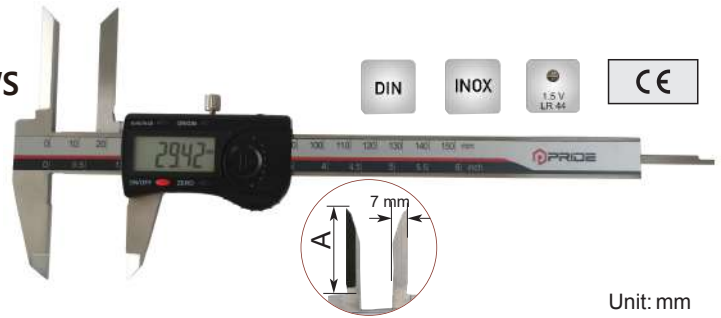


Model No.	P3005
Measurement target	Chamfering angle 45 degrees with a circumscribed angle of 90 degrees
range of measurement	C0.01-C5.00
Min display	C 0.01
Measurement accuracy	C ± 0.05
Material / dimension	Stainless steel (SUS420J2) 150mmL x 25mmW Fixing jaw thickness 2.5mm Length measure 3.5mm
Dust and waterproof standard	IP50
Automatic power on / off	When the scale is moved automatically ON, after 5 minutes automatically OFF
Battery life used	One 3V lithium battery (CR2032), battery life 1000 hours

DIGITAL CALIPER WITH LONG UP-JAWS

FEATURES:

- Long up-jaws for ID measurement of depth bore
- Function: Power switch; Metric-inch conversion; Zero set at any Position
- Resolution: 0.01 mm / 0.005 "



Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy	A Up-jaw length (mm)
P1035-150	0-150mm	0.01mm/0.0005"	±0.04mm	45
P1035-200	0-200mm	0.01mm/0.0005"	±0.04mm	50
P1035-300	0-300mm	0.01mm/0.0005"	±0.05mm	55

OUTSIDE DIGITAL CALIPER

FEATURES:

- Manual power on/off
- Metric/Inch system interchange at any position
- Zero setting at any position
- Easy to measure the width of an outside groove



Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy
P1023-150	150mm/6"	0.01mm/0.0005"	±0.04mm

INSIDE DIGITAL CALIPER

FEATURES:

- Manual power on/off
- Metric/Inch system interchange at any position
- Zero setting at any position
- With pointed jaws and cylinder jaws
- Easy to measure the width of an inside groove



Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy
P1024-150	150mm/6"	0.01mm/0.0005"	±0.04mm

F?BG DIGITAL CALIPER

FEATURES:

- K cf_g`ghUbxUFX
- : cf`g`UzhX]Ua YHYF`2`%&\$a a
- @W]b[`gWYk
- < UFXybYX`ghU]b`Ygg`ghYY`
- @Jf[Y`@78`X]gd`Um
- &`a cj YUV`Y`Ufa`g`



Unit: mm

Model No.	Left mm/in	Right mm/in	Resolution mm
P1025-40	0-40 / 0-1.6	0-70 / 0-2.8	0.01mm
P1025-60	0-60 / 0-2.4	0-200 / 0-7.9"	0.01mm

6; 4@ 98E DIGITAL CALIPER

FEATURES:

- Measure chamfer dimension 15°, 30°, 45°, 60°
- Manual power on/off
- Metric/Inch system interchange at any position
- Zero setting at any position



Unit: mm

Model No.	Range mm	Accuracy mm	Angle of chamfering
P1056-8A	0-8mm	±0.03mm	15°
P1056-8B	0-8mm	±0.03mm	30°
P1056-8C	0-8mm	±0.03mm	45°
P1056-8D	0-8mm	±0.03mm	60°

INNER GROOVE DIGITAL CALIPER

FEATURES:

- Used for inside grooves' width measurements in deep bores
- Manual power on/off
- Metric/Inch system interchange at any position
- Zero setting at any position



Unit: mm

Model No.	Range mm	Resolution mm	Accuracy mm
P1055-125	3-125mm	0.01mm/0.0005"	±0.03mm
P1055-150	3-150mm	0.01mm/0.0005"	±0.03mm
P1055-200	3-200mm	0.01mm/0.0005"	±0.04mm
P1055-300	4-300mm	0.01mm/0.0005"	±0.04mm

CARBON STEEL VERNIER CALIPER

FEATURES:

- Material: Carbon Steel
- Measure inside, outside, diameter, steps, depth etc
- Packed in plastic box or leather pouch
- Conforming standard: DIN862 / GOCT 166-8



Unit: mm

Model No.	Resolution mm/in	Reading mm
P3001-125A	0-125mm	0.02mm
P3001-150A	0-150mm	0.02mm
P3001-200A	0-200mm	0.02mm
P3001-250A	0-250mm	0.02mm
P3001-300A	0-300mm	0.02mm
P3001-1506	150mm/6"	0.02mm/0.001"
P3001-2006	200mm/8"	0.02mm/0.001"
P3001-300B	300mm/12"	0.02mm/0.001"
P3001-125C	0-125mm	0.05mm
P3001-150C	0-150mm	0.05mm
P3001-200C	0-200mm	0.05mm
P3001-250C	0-250mm	0.05mm
P3001-300C	0-300mm	0.05mm
P3001-150D	150mm/6"	0.05mm/1/128"
P3001-200D	200mm/8"	0.05mm/1/128"
P3001-300D	300mm/12"	0.05mm/1/128"

ECONOMY CARBON STEEL VERNIER CALIPER

FEATURES:

- Material: Carbon Steel
- Measure inside, outside, diameter, steps, depth etc
- Packed in plastic box or leather pouch



Unit: mm

Model No.	Resolution mm/in	Reading mm
P3002-150C	150mm/6"	0.02mm/0.001"
P3002-200C	200mm/8"	0.02mm/0.001"
P3002-300C	300mm/12"	0.02mm/0.001"

CARBON STEEL VERNIER CALIPER

FEATURES:

- Material: Carbon Steel
- Measure inside, outside, diameter, steps, depth etc
- Packed in plastic box or leather pouch
- With fine adjustment
- Conforming standard: **DIN862 / GOCT 166-8**



Unit: mm

Model No.	Resolution mm/in	Reading mm
P3001-200E	0-200mm	0.02mm
P3001-300E	0-300mm	0.02mm
P3001-200F	200mm/8"	0.02mm/0.001"
P3001-300F	300mm/12"	0.02mm/0.001"
P3001-200G	200mm/8"	0.05mm/1/128"
P3001-300G	300mm/12"	0.05mm/1/128"

STAINLESS STEEL VERNIER CALIPER

DIN

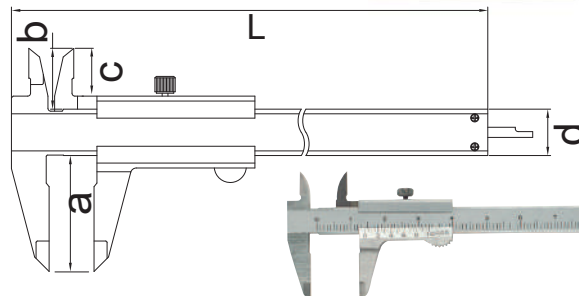
INOX

P3003-150R1
P3003-150R2



FEATURES:

- Material: stainless Steel
- Measure inside, outside, diameter, steps, depth etc
- Packed in plastic box or leather pouch
- Conforming standard: **DIN862**



P3003-70

Model No.	Resolution mm/in	Reading mm	Accuracy	a	b	c	d	L
P3003-150A	150mm/6"	0.05mm/ 1/128"	±0.03	40	21	16.5	16	236
P3003-200A	200mm/8"	0.05mm/ 1/128"	±0.03	50	24	19.5	16	286
P3003-300A	300mm/12"	0.05mm/ 1/128"	±0.04	60	26	21.5	16	410
P3003-150B	150mm/6"	0.02mm/0.001"	±0.03	40	21	16.5	16	236
P3003-200B	200mm/8"	0.02mm/0.001"	±0.03	50	24	19.5	16	286
P3003-300B	300mm/12"	0.02mm/0.001"	±0.04	60	26	21.5	16	410
P3003-150R1	150mm/6"	0.05mm/1/128"	±0.03	40	21	16.5	16	236
P3003-150R2	150mm/6"	0.02mm/0.001"	±0.03	40	21	16.5	16	236
P3003-70	70mm	0.05mm	±0.03	20	9	6	8	130
P3003-100	100mm	0.05mm	±0.03	30	17	11	12	170

unit:mm

STAINLESS STEEL VERNIER CALIPER

DIN

INOX

FEATURES:

- Material: Stainless Steel
- Measure inside, outside, diameter, steps, depth etc
- Packed in plastic box or leather pouch
- Conforming standard: **DIN862 /ГОСТ 166-89**



unit:mm

Model No.	Resolution mm/in	Reading mm
P3001-125S	0-125mm	0.02mm
P3001-150S	0-150mm	0.02mm
P3001-200S	0-200mm	0.02mm
P3001-250S	0-250mm	0.02mm
P3001-300S	0-300mm	0.02mm
P3002-150S	150mm/6"	0.02mm/0.001"
P3002-200S	200mm/8"	0.02mm/0.001"
P3002-300S	300mm/12"	0.02mm/0.001"

VERNIER CALIPER AUTO LOCK

DIN

INOX

FEATURES:

- Material: stainless Steel
- Auto lock
- Measure inside, outside, diameter, steps, depth etc
- Packed in plastic box or leather pouch
- Conforming standard: **DIN862**



unit:mm

Model No.	Resolution mm/in	Reading mm
P3008-150A	150mm/6"	0.05mm/1/128"
P3008-200A	200mm/8"	0.05mm/1/128"
P3008-300A	300mm/12"	0.05mm/1/128"

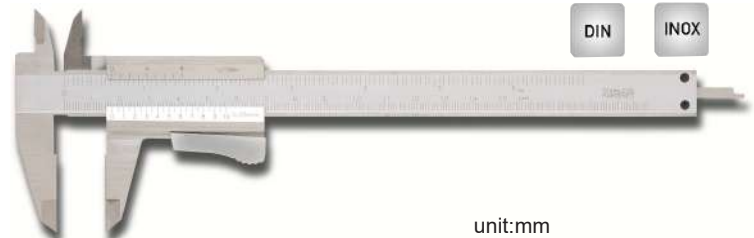
VERNIER CALIPER AUTO LOCK

DIN

INOX

FEATURES:

- Material: stainless Steel
- Auto lock
- Measure inside, outside, diameter, steps, depth etc
- Packed in plastic box or leather pouch
- Conforming standard: **DIN862**



unit:mm

Model No.	Resolution mm/in	Reading mm
P3008-150B	150mm/6"	0.05mm/1/128"
P3008-200B	200mm/8"	0.05mm/1/128"
P3008-300B	300mm/12"	0.05mm/1/128"

VERNIER CALIPER WITH FINE ADJUSTMENT

DIN

INOX

FEATURES:

- Material: stainless Steel
- Fine adjustment
- Measure inside, outside, diameter, steps, depth etc
- Conforming standard: **DIN862 JIS B 7507**



unit:mm

Model No.	Resolution mm/in	Reading mm
P3015-150	150mm/6"	0.02mm/0.001"
P3015-200	200mm/8"	0.02mm/0.001"
P3015-300	300mm/12"	0.02mm/0.001"

HEAVY DUTY VERNIER CALIPER

DIN

INOX

FEATURES:

- Finely graduated for precise measurement
- Stainless steel hardened
- Satin-chrome scale and vernier backgrounds
- Packed in plastic box



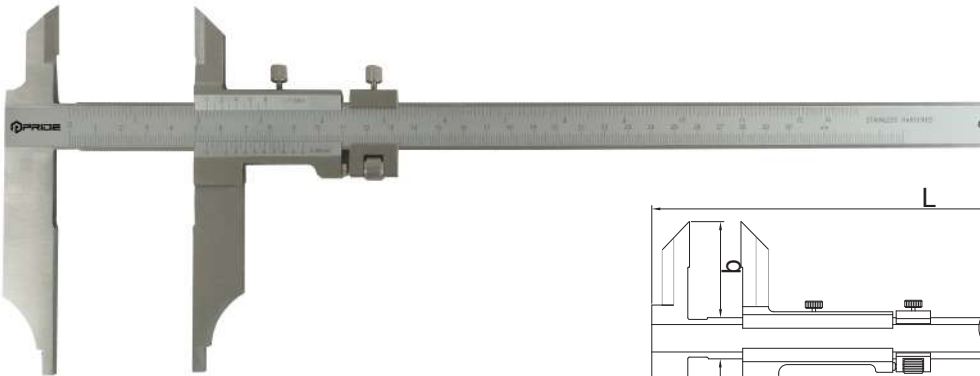
unit:mm

Model No.	Range mm	Reading mm	Jaw length mm
P3027-200A	0-200mm	0.05mm/1/128"	80mm
P3027-250A	0-250mm	0.05mm/1/128"	80mm
P3027-300A	0-300mm	0.05mm/1/128"	90mm

HEAVY DUTY VERNIER CALIPER

DIN

INOX



FEATURES:

- Finely graduated for precise measurement
- Stainless steel hardened
- With fine adjustment
- Satin-chrome scale and vernier backgrounds
- Packed in plastic box

unit:mm

Model No.	Range mm	Reading mm	a Jaw Lenth	b	d	e	f	L
P3027-200B	0-200mm	0.05mm / 1/128"	80mm	40	20	5	10	220
P3027-250B	0-250mm	0.05mm / 1/128"	80mm	40	20	5	10	270
P3027-300B	0-300mm	0.05mm / 1/128"	90mm	40	20	5	10	320

HEAVY DUTY VERNIER CALIPER

DIN

INOX

FEATURES:

- Finely graduated for precise measurement
- Stainless steel hardened
- Satin-chrome scale and vernier backgrounds
- Packed in plastic box



unit:mm

Model No.	Range mm	Reading mm	Jaw length mm
P3027-200C	0-200mm	0.05mm/1/128"	80mm
P3027-250C	0-250mm	0.05mm/1/128"	80mm
P3027-300C	0-300mm	0.05mm/1/128"	90mm

HEAVY DUTY VERNIER CALIPER

DIN INOX

FEATURES:

- Finely graduated for precise measurement
- Stainless steel hardened
- With fine adjustment
- Satin-chrome scale and vernier backgrounds
- Packed in plastic box



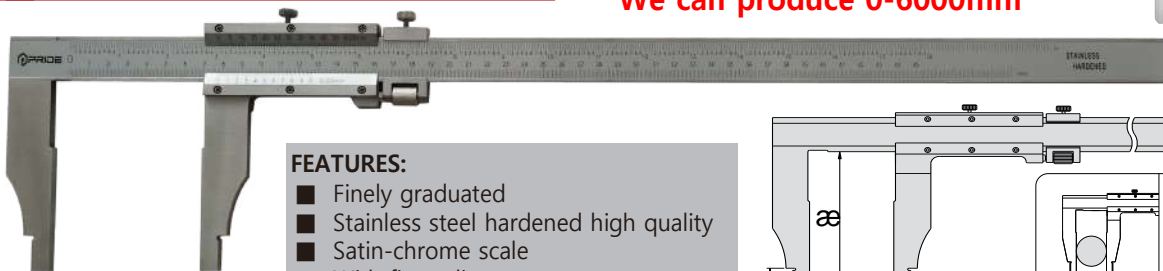
unit:mm

Model No.	Range mm	Reading mm	Jaw length mm
P3027-200D	0-200mm	0.05mm/1/128"	80mm
P3027-250D	0-250mm	0.05mm/1/128"	80mm
P3027-300D	0-300mm	0.05mm/1/128"	90mm

HEAVY DUTY VERNIER CALIPER

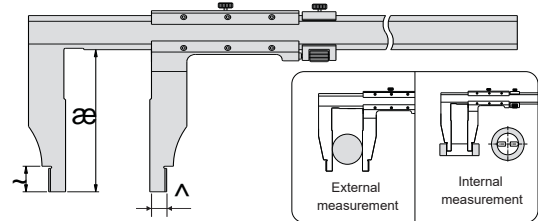
We can produce 0-6000mm

DIN INOX



FEATURES:

- Finely graduated
- Stainless steel hardened high quality
- Satin-chrome scale
- With fine adjustment
- Packed in wooden box



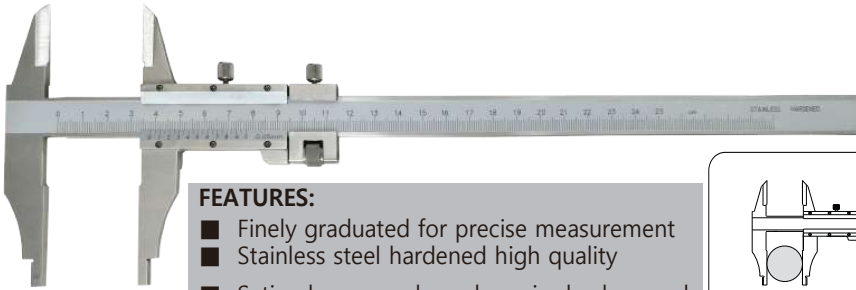
ATTENTION

Model No.	Range mm	Reading mm	a	e	f	Optional reading mm
P3028-301S	0-300mm	0.02mm	90mm	5	10	0.02mm/0.001",0.05,0.1
P3028-400S	0-400mm	0.02mm	100mm	10	18	0.02mm/0.001",0.05,0.1
P3028-401S	0-400mm	0.02mm	150mm	10	18	0.02mm/0.001",0.05,0.1
P3028-500S	0-500mm	0.02mm	100mm	10	18	0.02mm/0.001",0.05,0.1
P3028-501S	0-500mm	0.02mm	150mm	10	18	0.02mm/0.001",0.05,0.1
P3028-600S	0-600mm	0.02mm	100mm	10	18	0.02mm/0.001",0.05,0.1
P3028-601S	0-600mm	0.02mm	150mm	10	18	0.02mm/0.001",0.05,0.1
P3028-630S	0-630mm	0.02mm	100mm	10	18	0.02mm/0.001",0.05,0.1
P3028-631S	0-630mm	0.02mm	150mm	10	18	0.02mm/0.001",0.05,0.1
P3028-800S	0-800mm	0.02mm	100mm	10	24	0.02mm/0.001",0.05,0.1
P3028-801S	0-800mm	0.02mm	150mm	10	24	0.02mm/0.001",0.05,0.1
P3028-802S	0-800mm	0.02mm	200mm	10	24	0.02mm/0.001",0.05,0.1
P3028-1000S	0-1000mm	0.02mm	150mm	10	24	0.02mm/0.001",0.05,0.1
P3028-1001S	0-1000mm	0.02mm	200mm	10	24	0.02mm/0.001",0.05,0.1
P3028-1250S	0-1250mm	0.02mm	150mm	10	24	0.02mm/0.001",0.05,0.1
P3028-1500S	0-1500mm	0.02mm	150mm	10	24	0.02mm/0.001",0.05,0.1
P3028-1501S	0-1500mm	0.02mm	200mm	10	24	0.02mm/0.001",0.05,0.1
P3028-1600S	0-1600mm	0.02mm	150mm	10	24	0.02mm/0.001",0.05,0.1
P3028-1601S	0-1600mm	0.02mm	200mm	10	24	0.02mm/0.001",0.05,0.1
P3028-2000S	0-2000mm	0.02mm	150mm	10	24	0.02mm/0.001",0.05,0.1
P3028-2001S	0-2000mm	0.02mm	300mm	10	24	0.02mm/0.001",0.05,0.1
P3028-3000S	0-3000mm	0.02mm	200mm	10	24	0.02mm/0.001",0.05,0.1

HEAVY DUTY VERNIER CALIPER

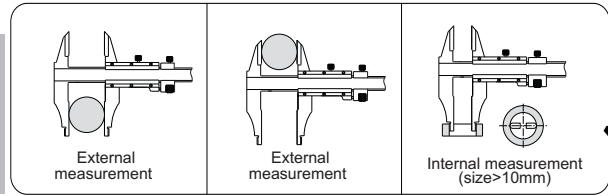
DIN

INOX



FEATURES:

- Finely graduated for precise measurement
- Stainless steel hardened high quality
- Satin-chrome scale and vernier backgrounds
- Packed in wooden box



ATTENTION

Model No.	Range mm	Reading mm	Jaw length mm	Optional reading mm
P3025-200S	0-200mm	0.05mm	60mm	0.02,0.1,0.02mm/0.001"
P3025-201S	0-200mm	0.02mm	60mm	0.05,0.1,0.05mm/1/128"
P3025-250S	0-250mm	0.05mm	60mm	0.02,0.1,0.02mm/0.001"
P3025-251S	0-250mm	0.02mm	60mm	0.05,0.1,0.05mm/1/128"
P3025-300S	0-300mm	0.05mm	60mm	0.02,0.1,0.02mm/0.001"
P3025-301S	0-300mm	0.02mm	60mm	0.05,0.1,0.05mm/1/128"

unit:mm

HEAVY DUTY VERNIER CALIPER

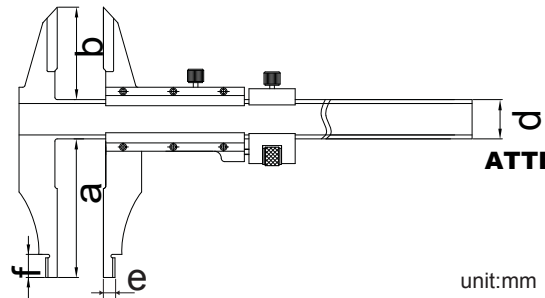
DIN

INOX



FEATURES:

- Finely graduated
- Stainless steel hardened high quality
- Satin-chrome scale
- With fine adjustment
- Packed in wooden box



ATTENTION

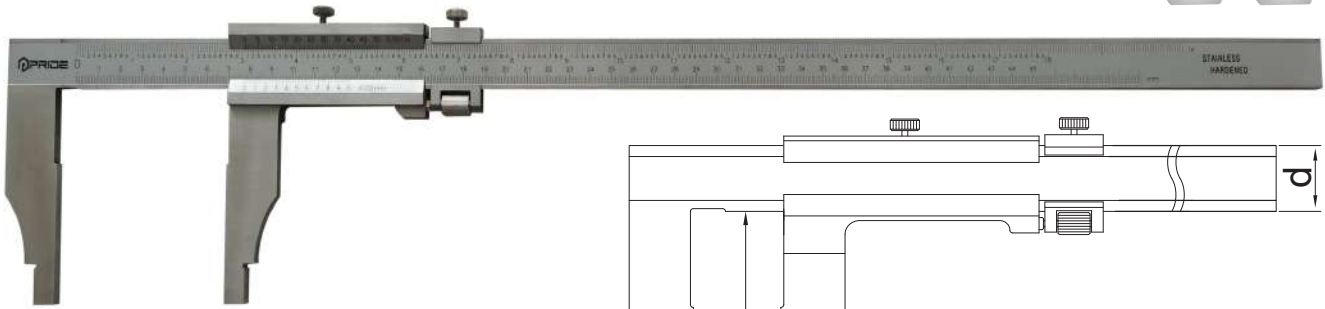
unit:mm

Model No.	Range	Reading	a jaw length	b	d	e	f	Optional reading mm
P3025-400S	0-400mm	0.02mm	100mm	56	24	5	18	0.05,0.1,0.05mm/1/128"
P3025-401S	0-400mm	0.02mm	150mm	56	24	5	18	0.05,0.1,0.05mm/1/128"
P3025-500S	0-500mm	0.02mm	100mm	56	24	5	18	0.05,0.1,0.05mm/1/128"
P3025-501S	0-500mm	0.02mm	150mm	56	24	5	18	0.05,0.1,0.05mm/1/128"
P3025-600S	0-600mm	0.02mm	100mm	56	24	5	18	0.05,0.1,0.05mm/1/128"
P3025-630S	0-630mm	0.02mm	100mm	56	24	5	18	0.05,0.1,0.05mm/1/128"
P3025-631S	0-630mm	0.02mm	150mm	56	24	10	18	0.05,0.1,0.05mm/1/128"
P3025-800S	0-800mm	0.02mm	150mm	67	31	10	24	0.05,0.1,0.05mm/1/128"
P3025-1000S	0-1000mm	0.02mm	100mm	67	31	10	24	0.05,0.1,0.05mm/1/128"
P3025-1001S	0-1000mm	0.02mm	150mm	67	31	10	24	0.05,0.1,0.05mm/1/128"
P3025-1250S	0-1250mm	0.02mm	150mm	80	42	10	24	0.05,0.1,0.05mm/1/128"
P3025-1500S	0-1500mm	0.02mm	150mm	80	42	10	24	0.05,0.1,0.05mm/1/128"
P3025-1600S	0-1600mm	0.02mm	150mm	80	42	10	24	0.05,0.1,0.05mm/1/128"
P3025-2000S	0-2000mm	0.02mm	150mm	80	42	10	24	0.05,0.1,0.05mm/1/128"

HEAVY DUTY VERNIER CALIPER

DIN

INOX



FEATURES:

- Finely graduated for precise measurement
- Stainless steel hardened
- Satin-chrome scale and vernier backgrounds
- With fine adjustment
- 0.02mm, 0.05mm, 0.02/0.001" optional
- Packed in wooden box

We can produce 0-6000mm

unit:mm

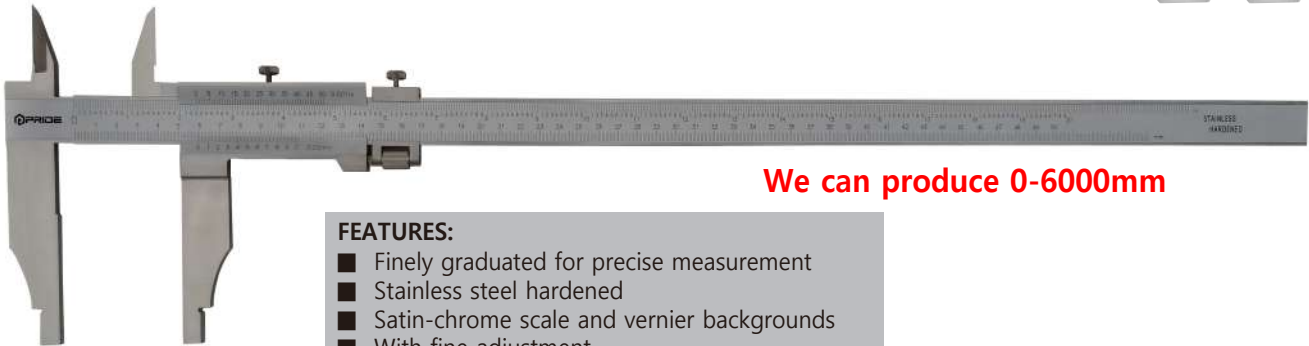
Model No.	Range mm	Reading mm	Accuracy mm	a Jaw length mm	d	e	f
P3030-300	0-300mm	0.05mm/1/128"	±0.04mm	100mm	20	10	12
P3030-301	0-300mm	0.05mm/1/128"	±0.05mm	125mm	20	10	12
P3030-302	0-300mm	0.05mm/1/128"	±0.06mm	150mm	20	10	12
P3030-303	0-300mm	0.05mm/1/128"	±0.07mm	200mm	24	10	18
P3030-400	0-400mm	0.05mm/1/128"	±0.04mm	100mm	24	10	18
P3030-401	0-400mm	0.05mm/1/128"	±0.06mm	150mm	24	10	18
P3030-402	0-400mm	0.05mm/1/128"	±0.07mm	200mm	24	10	18
P3030-403	0-400mm	0.05mm/1/128"	±0.18mm	300mm	24	10	18
P3030-500	0-500mm	0.05mm/1/128"	±0.05mm	100mm	24	10	18
P3030-501	0-500mm	0.05mm/1/128"	±0.05mm	125mm	24	10	18
P3030-502	0-500mm	0.05mm/1/128"	±0.06mm	150mm	24	10	18
P3030-503	0-500mm	0.05mm/1/128"	±0.08mm	200mm	24	10	18
P3030-504	0-500mm	0.05mm/1/128"	±0.13mm	250mm	31	10	24
P3030-505	0-500mm	0.05mm/1/128"	±0.18mm	300mm	31	10	24
P3030-600	0-600mm	0.05mm/1/128"	±0.05mm	100mm	24	10	18
P3030-601	0-600mm	0.05mm/1/128"	±0.05mm	125mm	24	10	18
P3030-602	0-600mm	0.05mm/1/128"	±0.06mm	150mm	24	10	18
P3030-603	0-600mm	0.05mm/1/128"	±0.08mm	200mm	24	10	18
P3030-604	0-600mm	0.05mm/1/128"	±0.13mm	250mm	31	10	24
P3030-605	0-600mm	0.05mm/1/128"	±0.18mm	300mm	31	10	24
P3030-800	0-800mm	0.05mm/1/128"	±0.06mm	150mm	31	10	24
P3030-801	0-800mm	0.05mm/1/128"	±0.08mm	200mm	31	10	24
P3030-802	0-800mm	0.05mm/1/128"	±0.14mm	250mm	31	10	24
P3030-803	0-800mm	0.05mm/1/128"	±0.19mm	300mm	31	10	24
P3030-1000	0-1000mm	0.05mm/1/128"	±0.07mm	125mm	31	10	24
P3030-1001	0-1000 mm	0.05mm / 1/128"	±0.07mm	150mm	31	10	24
P3030-1002	0-1000 mm	0.05mm / 1/128"	±0.09mm	200mm	31	10	24
P3030-1003	0-1000 mm	0.05mm / 1/128"	±0.14mm	250mm	42	10	24

P3030-1004	0-1000 mm	0.05mm / 1/128"	±0.19mm	300mm	42	10	24
P3030-1005	0-1000 mm	0.05mm / 1/128"	±0.33mm	400mm	42	10	24
P3030-1006	0-1000 mm	0.05mm / 1/128"	±0.45mm	500mm	42	10	24
P3030-1500	0-1500 mm	0.05mm / 1/128"	±0.11mm	150mm	42	10	24
P3030-1501	0-1500 mm	0.05mm / 1/128"	±0.14mm	200mm	42	10	24
P3030-1502	0-1500 mm	0.05mm / 1/128"	±0.17mm	250mm	50	10	24
P3030-1503	0-1500 mm	0.05mm / 1/128"	±0.22mm	300mm	50	10	24
P3030-1504	0-1500 mm	0.05mm / 1/128"	±0.33mm	400mm	50	10	24
P3030-1505	0-1500 mm	0.05mm / 1/128"	±0.45mm	500mm	50	10	24
P3030-2000	0-2000 mm	0.05mm / 1/128"	±0.14mm	200mm	42	10	24
P3030-2001	0-2000 mm	0.05mm / 1/128"	±0.18mm	250mm	42	10	24
P3030-2002	0-2000 mm	0.05mm / 1/128"	±0.22mm	300mm	50	10	24
P3030-2003	0-2000 mm	0.05mm / 1/128"	±0.36mm	400mm	50	10	24
P3030-2004	0-2000 mm	0.05mm / 1/128"	±0.48mm	500mm	50	10	24
P3030-3000	0-3000mm	0.05mm / 1/128"	±0.26mm	200mm	50	10	24
P3030-3001	0-3000mm	0.05mm / 1/128"	±0.30mm	300mm	50	10	24
P3030-3002	0-3000mm	0.05mm / 1/128"	±0.47mm	400mm	50	10	24
P3030-4001	0-4000mm	0.05mm / 1/128"	±0.33mm	300mm	50	10	24
P3030-4002	0-4000mm	0.05mm / 1/128"	±0.52mm	400mm	50	10	24
P3030-5000	0-5000mm	0.05mm / 1/128"	±0.38mm	300mm	50	10	24
P3030-5001	0-5000mm	0.05mm / 1/128"	±0.57mm	400mm	50	10	24

HEAVY DUTY VERNIER CALIPER

DIN

INOX



We can produce 0-6000mm

FEATURES:

- Finely graduated for precise measurement
- Stainless steel hardened
- Satin-chrome scale and vernier backgrounds
- With fine adjustment
- Packed in wooden box

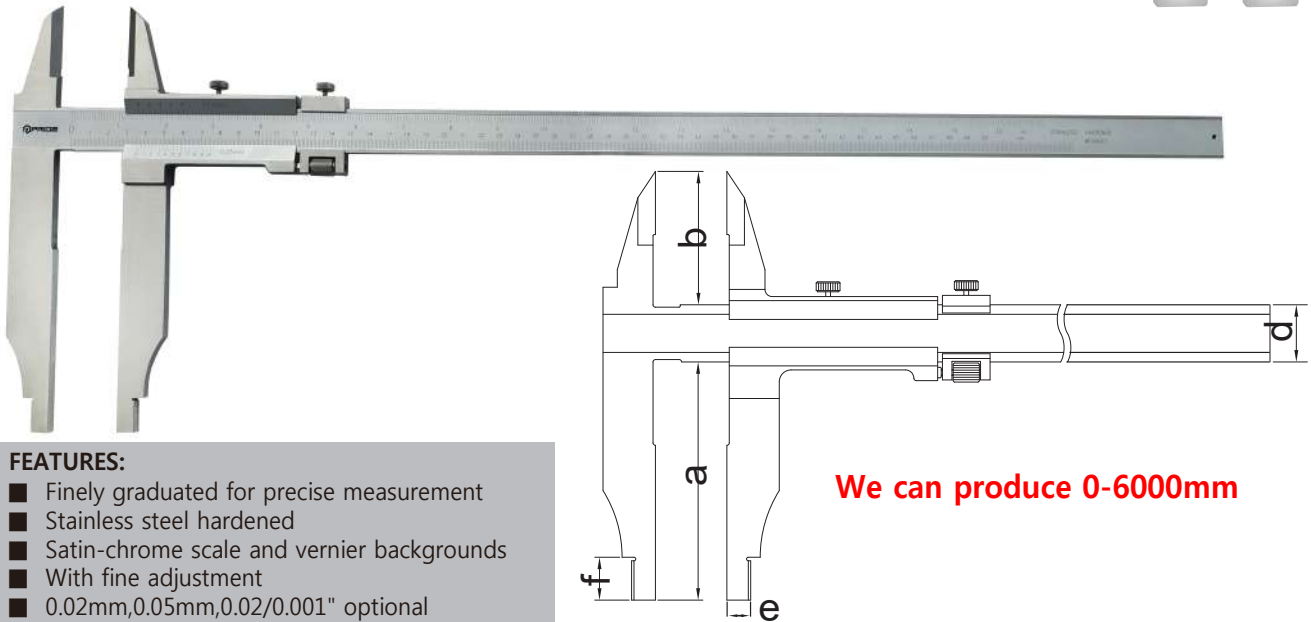
unit:mm

Model No.	Range mm	Reading mm	Accuracy mm	Jaw length mm
P3031-300	0-300mm	0.02mm/0.001"	±0.05mm	100mm
P3031-500	0-500mm	0.02mm/0.001"	±0.06mm	100mm
P3031-502	0-500mm	0.02mm/0.001"	±0.06mm	150mm
P3031-600	0-600mm	0.02mm/0.001"	±0.06mm	100mm
P3031-602	0-600mm	0.02mm/0.001"	±0.06mm	150mm
P3031-801	0-800mm	0.02mm/0.001"	±0.06mm	150mm
P3031-1000	0-1000mm	0.02mm/0.001"	±0.07mm	150mm
P3031-1001	0-1000mm	0.02mm/0.001"	±0.09mm	200mm
P3031-1500	0-1500mm	0.02mm/0.001"	±0.11mm	150mm
P3031-2000	0-2000mm	0.02mm/0.001"	±0.14mm	200mm

HEAVY DUTY VERNIER CALIPER

DIN

INOX



FEATURES:

- Finely graduated for precise measurement
- Stainless steel hardened
- Satin-chrome scale and vernier backgrounds
- With fine adjustment
- 0.02mm, 0.05mm, 0.02/0.001" optional
- Packed in wooden box

We can produce 0-6000mm

unit:mm

Model No.	Range mm	Reading mm	Accuracy mm	a Jaw length mm	b	d	e	f
P3032-300	0-300mm	0.05mm/1/128"	±0.05mm	100mm	40	20	10	12
P3032-302	0-300mm	0.05mm/1/128"	±0.06mm	150mm	40	20	10	12
P3032-400	0-400mm	0.05mm/1/128"	±0.05mm	100mm	56	24	10	18
P3032-401	0-400mm	0.05mm/1/128"	±0.06mm	150mm	56	24	10	18
P3032-500	0-500mm	0.05mm/1/128"	±0.05mm	100mm	56	24	10	18
P3032-502	0-500mm	0.05mm/1/128"	±0.06mm	150mm	56	24	10	18
P3032-503	0-500mm	0.05mm/1/128"	±0.08mm	200mm	67	31	10	24
P3032-504	0-500mm	0.05mm/1/128"	±0.13mm	250mm	67	31	10	24
P3032-505	0-500mm	0.05mm/1/128"	±0.18mm	300mm	67	31	10	24
P3032-600	0-600mm	0.05mm/1/128"	±0.05mm	100mm	56	24	10	18
P3032-602	0-600mm	0.05mm/1/128"	±0.06mm	150mm	56	24	10	18
P3032-603	0-600mm	0.05mm/1/128"	±0.08mm	200mm	67	31	10	24
P3032-604	0-600mm	0.05mm/1/128"	±0.13mm	250mm	67	31	10	24
P3032-605	0-600mm	0.05mm/1/128"	±0.18mm	300mm	67	31	10	24
P3032-800	0-800mm	0.05mm/1/128"	±0.06mm	150mm	67	31	10	24
P3032-801	0-800mm	0.05mm/1/128"	±0.08mm	200mm	67	31	10	24
P3032-802	0-800mm	0.05mm/1/128"	±0.14mm	250mm	67	31	10	24
P3032-803	0-800mm	0.05mm/1/128"	±0.19mm	300mm	67	31	10	24
P3032-1000	0-1000mm	0.05mm/1/128"	±0.07mm	125mm	67	31	10	24

Model No.	Range mm	Reading mm	Accuracy mm	a Jaw length mm	b	d	e	f
P3032-1001	0-1000 mm	0.05mm / 1/128"	±0.07mm	150mm	67	31	10	24
P3032-1002	0-1000 mm	0.05mm / 1/128"	±0.09mm	200mm	67	31	10	24
P3032-1003	0-1000 mm	0.05mm / 1/128"	±0.14mm	250mm	67	31	10	24
P3032-1004	0-1000 mm	0.05mm / 1/128"	±0.19mm	300mm	67	31	10	24
P3032-1005	0-1000 mm	0.05mm / 1/128"	±0.33mm	400mm	80	42	10	24
P3032-1006	0-1000 mm	0.05mm / 1/128"	±0.45mm	500mm	80	42	10	24
P3032-1500	0-1500 mm	0.05mm / 1/128"	±0.10mm	150mm	80	42	10	24
P3032-1051	0-1500 mm	0.05mm / 1/128"	±0.14mm	200mm	80	42	10	24
P3032-1052	0-1500 mm	0.05mm / 1/128"	±0.17mm	250mm	80	42	10	24
P3032-1503	0-1500 mm	0.05mm / 1/128"	±0.22mm	300mm	80	42	10	24
P3032-1504	0-1500 mm	0.05mm / 1/128"	±0.33mm	400mm	80	42	10	24
P3032-1505	0-1500 mm	0.05mm / 1/128"	±0.45mm	500mm	80	42	10	24
P3032-2000	0-2000 mm	0.05mm / 1/128"	±0.14mm	200mm	80	42	10	24
P3032-2001	0-2000 mm	0.05mm / 1/128"	±0.18mm	250mm	80	42	10	24
P3032-2002	0-2000 mm	0.05mm / 1/128"	±0.22mm	300mm	80	42	10	24
P3032-2003	0-2000 mm	0.05mm / 1/128"	±0.36mm	400mm	80	42	10	24
P3032-2004	0-2000 mm	0.05mm / 1/128"	±0.48mm	500mm	80	42	10	24
P3032-3000	0-3000mm	0.05mm / 1/128"	±0.26mm	200mm	80	42	10	24
P3032-3001	0-3000mm	0.05mm / 1/128"	±0.31mm	300mm	80	42	10	24
P3032-4001	0-4000mm	0.05mm / 1/128"	±0.33mm	300mm	80	42	10	24
P3032-4002	0-4000mm	0.05mm / 1/128"	±0.52mm	400mm	80	42	10	24

GEAR TOOTH VERNIER CALIPER

FEATURES:

- Stainless steel, satin chrome plated reading surface
- Can be used for measuring hobs, form and thread tools
- Adjusted independently by screws on the graduated bars
- Thickness of a tooth at the pitch line is measured by an adjustable jaw after the addendum is set by the adjustable tongue
- Packed in wooden box



INOX

unit:mm

Model No.	Measuring Range mm	Reading mm	Accuracy mm
P3062-26	M1-26mm	0.02mm	±0.03mm
P3062-55	M15-55mm	0.02mm	±0.03mm

CARBIDED VERNIER CALIPER

FEATURES:

- Material: stainless Steel
- Four way measurements
- Inside and outside carbide-tipped measuring faces



DIN

INOX

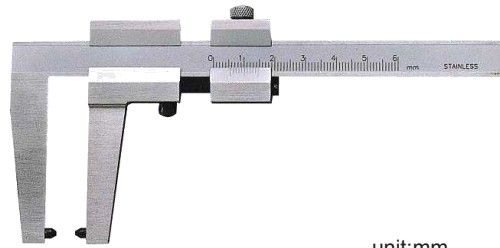
unit:mm

Model No.	Range mm	Reading mm	Accuracy	Jaw length mm
P3024-150CT	0-150mm	0.02mm	±0.02mm	40mm
P3024-200CT	0-200mm	0.02mm	±0.02mm	50mm
P3024-300CT	0-300mm	0.02mm	±0.02mm	60mm

DISC BRAKE VERNIER CALIPER

FEATURES:

- For narrow grooves and small recesses
- Made of hardened stainless steel
- Packed in wooden box



INOX

unit:mm

Model No.	Range mm	Reading mm	Jaw length mm
P3065-60	0-60mm	0.1mm	55mm
P3065-61	0-60mm	0.1mm	80mm
P3065-90	0-90mm	0.1mm	120mm

COMPASS VERNIER CALIPER

FEATURES:

- Made of hardened stainless steel
- Packed in wooden box



INOX

unit:mm

Model No.	Range mm	Reading mm	Jaw length mm
P3066-150	0-150mm	0.1mm	40mm
P3066-200	0-200mm	0.1mm	40mm
P3066-250	0-250mm	0.1mm	40mm
P3066-300	0-300mm	0.1mm	40mm

PRECISION VERNIER CALIPER

FEATURES:

- With locking clamp
- Made of hardened stainless steel
- Packed in wooden box



INOX

unit:mm

Model No.	Range mm	Reading mm	length of bridge mm
P3067-160	0-160mm	0.05mm	135mm
P3067-250	0-250mm	0.05mm	135mm
P3067-300	0-300mm	0.05mm	160mm
P3067-400	0-400mm	0.05mm	160mm
P3067-500	0-500mm	0.05mm	160mm

3 FLUTES AND 5 FLUTES VERNIER CALIPER

FEATURES:

- Measure diameter of cylinder(such as tqps, remers, end mills) with odd number of flutes
- Made of hardened stainless steel
- Packed in leather pouch



INOX

unit:mm

Model No.	Range mm	Reading mm
P3068-40	4-40mm 3 POINTS	0.05mm
P3068-42	20-75mm 3 POINTS	0.05mm
P3068-41	1-40mm 5 POINTS	0.05mm

STEEL MARKING GAUGE

INOX

FEATURES:

- Made of stainless steel, Carbon steel optional
- Applicable for positioning and making linear displacement
- Laser marking line
- Packed in leather pouch



unit:mm

Model No.	Range mm	Reading mm	Accuracy mm
P3071-200	0-200mm	0.1mm	±0.2mm
P3071-250	0-250mm	0.1mm	±0.2mm
P3071-300	0-300mm	0.1mm	±0.2mm

STEEL MARKING GAUGE

INOX

FEATURES:

- Hardened stainless steel
- Exchangeable hard metal needle
- Satin chrome plated
- Carbide scriber tip



unit:mm

Model No.	Range mm	Reading mm
P3076-200	0-200mm	0.1mm
P3076-201	0-200mm/8"	0.05mm-1/128"
P3076-400	0-400mm	0.1mm
P3076-401	0-400mm/16"	0.05mm-1/128"

STEEL MARKING GAUGE

INOX

FEATURES:

- carbon steel, with round rod



unit:mm

Model No.	Range mm	Reading mm
P3072-200	0-200mm	0.1mm
P3072-300	0-300mm	0.1mm
P3072-400	0-400mm	0.1mm
P3072-500	0-500mm	0.1mm

STEEL MARKING GAUGE

INOX

FEATURES:

- Carbon steel, with round rod, with fine adjustment



unit:mm

Model No.	Range mm	Reading mm
P3073-200	0-200mm	0.1mm
P3073-300	0-300mm	0.1mm
P3073-400	0-400mm	0.1mm
P3073-500	0-500mm	0.1mm

STEEL MARKING GAUGE

INOX

FEATURES:

- Carbon steel, with round rod



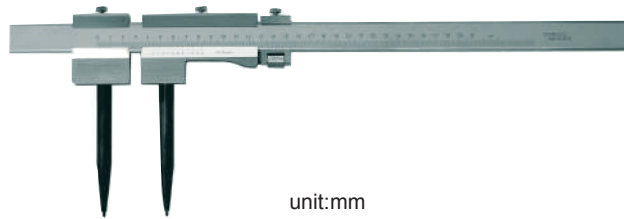
unit:mm

Model No.	Range mm	Reading mm
P3074-200	0-200mm	0.1mm
P3074-300	0-300mm	0.1mm
P3074-400	0-400mm	0.1mm
P3074-500	0-500mm	0.1mm

STEEL MARKING GAUGE

FEATURES:

- Made INOX steel hardened
- Scale satin chrome finished
- With fine adjustment, exchangeable jaws



INOX

unit:mm

Model No.	Range mm	Reading mm	Jaw length
P3044-300	300mm	0.05mm	60mm
P3044-500	500mm	0.05mm	60mm
P3044-1000	1000mm	0.05mm	105mm
P3044-1500	1500mm	0.05mm	105mm
P3044-2000	2000mm	0.05mm	105mm

SPLINE GAUGE

FEATURES:

- To measure the depth of key way
- Made of hardened stainless steel
- Packed in leathery pouch



INOX

unit:mm

Model No.	Range mm	Reading mm
P3070-80	5-80mm	0.05mm
P3070-120	6-120mm	0.05mm
P3070-160	7-160mm	0.05mm
P3070-200	8-200mm	0.05mm

CENTER DISTANCE VERNIER CALIPER

FEATURES:

- Measure center distance of holes and hole edge distance
- High quality stainless steel
- Reading 0.02mm



INOX

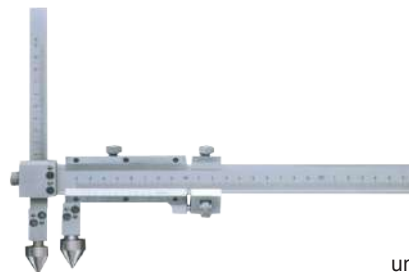
unit:mm

Model No.	Range mm	Accuracy mm
P3033-150	20-150mm	±0.03mm
P3033-200	20-200mm	±0.03mm
P3033-300	20-300mm	±0.04mm

CENTER DISTANCE DIGITAL CALIPERS WITH AWL ANXILS

FEATURES:

- Center distance between two holes can be easily obtained by moving slider
- Center distance between two step holes can be obtained too
- Can be used to measure the diameter of big hole
- With external measurement
- With step measurement
- With carbide tipped awl anvils for scribing



INOX

unit:mm

Model No.	Range mm	Reading mm
P3063-150	20-150mm	0.02mm
P3063-200	20-200mm	0.02mm
P3063-300	20-300mm	0.02mm
P3063-500	20-500mm	0.02mm
P3063-1000	20-1000mm	0.02mm
P3063-2000	30-2000mm	0.02mm

JEWELRY AND WATCH BRASS CALIPER GAUGE

FEATURES:

- Made entirely of solid brass
- Notched jaws for inside/outside measurements
- 1/10th mm Vernier gauge



unit:mm

Model No.	Range mm	Jaw length mm
P3078-80	0-80mm	21.5mm
P3078-100	0-100mm	25mm

DOUBLE INSIDE GROOVE VERNIER CALIPER

FEATURES:

- Measure inside groove
- High quality stainless steel
- Reading 0.02mm



INOX

unit:mm

Model No.	Range mm	Accuracy mm
P3036-150	9-150mm	±0.03mm
P3036-200	9-200mm	±0.03mm
P3036-300	9-300mm	±0.04mm

MARKING VERNIER CALIPER

FEATURES:

- The longer jaw carbided tip
- Draw parallel lines on the workpiece
- Resolution 0.02mm



INOX

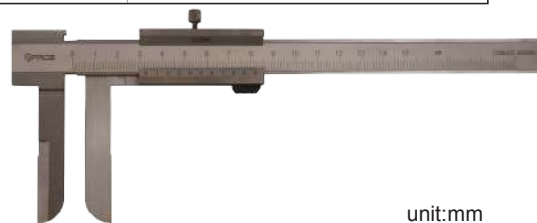
unit:mm

Model No.	Range mm	Accuracy mm
P3037-150	0-150mm	±0.03mm
P3037-200	0-200mm	±0.03mm
P3037-300	0-300mm	±0.04mm

LONG JAW INSIDE VERNIER CALIPER

FEATURES:

- Measure the step gap in the deep hole
- High quality stainless steel
- Resolution 0.02mm



INOX

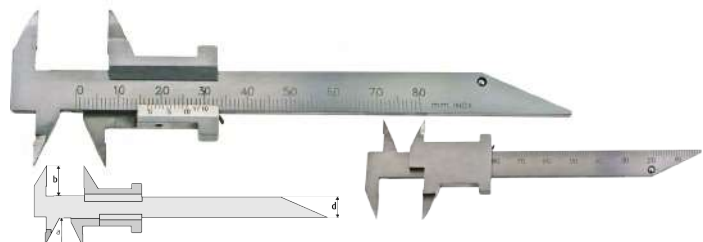
unit:mm

Model No.	Range mm	Accuracy mm
P3038-150	15-150mm	±0.03mm
P3038-200	18-200mm	±0.04mm
P3038-300	20-300mm	±0.05mm

TOOTH VERNIER CALIPER

FEATURES:

- For tooth doctor
- High quality stainless steel
- Both sides marking



unit:mm

Model No.	Range mm	hagkazUX_bj	a	à	â
P' \$( & , \$	, \$a a	%P/\$	FG	16	JÈ

OUTSIDE GROOVE VERNIER CALIPER

FEATURES:

- Measure outside groove
- High quality stainless steel
- Resolution 0.02mm



INOX

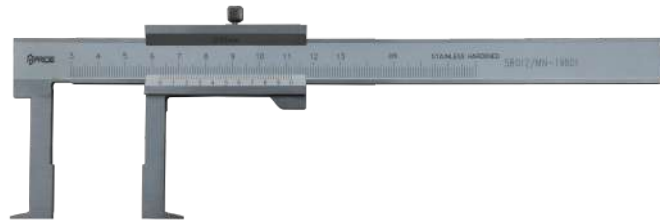
unit:mm

Model No.	Range mm	Jaw length mm	Accuracy mm
P3039-150	0-150mm	40mm	±0.03mm
P3039-200	0-200mm	50mm	±0.03mm
P3039-300	0-300mm	100mm	±0.04mm
P3039-500	0-500mm	150mm	±0.05mm

INSIDE GROOVE VERNIER CALIPER

FEATURES:

- Measure inside groove
- High quality stainless steel
- Resolution 0.02mm



INOX

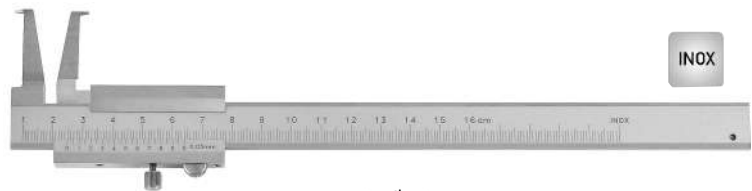
unit:mm

Model No.	Range mm	Accuracy mm
P3040-150	22-150mm	±0.03mm
P3040-200	25-200mm	±0.03mm
P3040-300	30-300mm	±0.04mm

INSIDE GROOVE VERNIER CALIPER

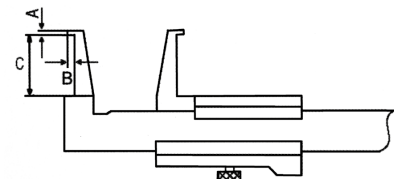
FEATURES:

- With lock screw
- High quality stainless steel
- For measuring the diameter of inside grooves



INOX

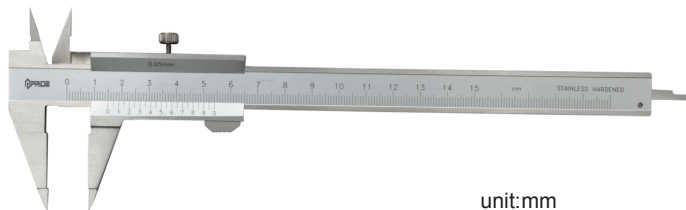
Model No.	Range mm	Reading mm	Jaw length	A	B	C
P3043-160	10-160mm	0.05mm	25	1.7	3	25
P3043-161	20-160mm	0.05mm	40	2	5	40
P3043-200	26-200mm	0.05mm	60	3	7	60
P3043-250	30-250mm	0.05mm	80	4	8.5	80
P3043-300	35-300mm	0.05mm	100	5	10	100



POINTED VERNIER CALIPER

FEATURES:

- Point jaws can measure very narrow space
- Draw parallel lines on the workpiece
- Resolution 0.02mm



INOX

unit:mm

Model No.	Range mm	Accuracy mm
P3041-150	0-150mm	±0.03mm
P3041-200	0-200mm	±0.03mm
P3041-300	0-300mm	±0.04mm

ROPE VERNIER CALIPER

FEATURES:

- Can measure for metal rope etc
- High quality stainless steel



INOX

unit:mm

Model No.	Range mm/in	Reading mm	Accuracy mm	Jaw length mm
P3079-150-30	150mm/6"	0.02mm/0.001"	±0.04mm	20x30mm
P3079-150-40	150mm/6"	0.02mm/0.001"	±0.04mm	30x40mm
P3079-200-40	200mm/8"	0.02mm/0.001"	±0.05mm	30x40mm
P3079-200-50	200mm/8"	0.02mm/0.001"	±0.08mm	40x50mm
P3079-300-50	300mm/12"	0.02mm/0.001"	±0.08mm	40x50mm
P3079-300-60	300mm/12"	0.02mm/0.001"	±0.09mm	50x60mm

DIGITAL DEPTH GAGE IP67

FEATURES:

- Protection grade IP67, ensure the caliper can work reliably in hard environment
- Sturdy quality, stainless steel, hardened
- Large LCD display with clear reading, 13 mm digit height
- On/Off button, data transfer button, mm/inch switchable, zero setting at any position
- Incl. 1x 3 V battery (type CR2032, art.-no.: 90112), with operation manual
- Built in wireless transmission (optional)



P4011-150 type A



type B
P4012-150



type C
P4013-150

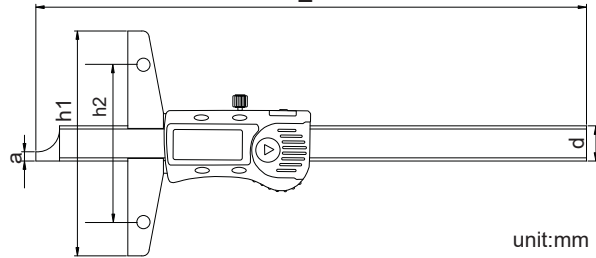


type D
P4015-150

Model No.	Type	Range mm/in	Resolution mm	Accuracy mm	Bridge mm
P4011-150	A	0-150/0-6"	0.01/0.0005"	0.03/0.0015"	100
P4011-200		0-200/0-8"	0.01/0.0005"	0.03/0.0015"	100
P4011-300		0-300/0-12"	0.01/0.0005"	0.04/0.0015"	150
P4012-150	B	0-150/0-6"	0.01/0.0005"	0.03/0.0015"	100
P4012-200		0-200/0-8"	0.01/0.0005"	0.03/0.0015"	100
P4012-300		0-300/0-12"	0.01/0.0005"	0.04/0.0015"	150
P4013-150	C	0-150/0-6"	0.01/0.0005"	0.03/0.0015"	100
P4013-200		0-200/0-8"	0.01/0.0005"	0.03/0.0015"	100
P4013-300		0-300/0-12"	0.01/0.0005"	0.04/0.0015"	150
P4015-150	D	0-150/0-6"	0.01/0.0005"	0.03/0.0015"	100
P4015-200		0-200/0-8"	0.01/0.0005"	0.03/0.0015"	100
P4015-300		0-300/0-12"	0.01/0.0005"	0.04/0.0015"	150

Unit: mm

DIGITAL DEPTH GAUGE



FEATURES:

- Manual power on/off
- Zero setting at any position
- Metric/Inch system conversion at any position
- Conforming standard: **DIN862**

unit:mm

Model No.	Range mm/in	Resolution mm/in	Accuracy mm	h1 Bridge mm	h2	d	a	L
P4001-150	0-150mm	0.01mm	±0.03mm	100mm	70	16	8	239
P4001-200	0-200mm	0.01mm	±0.03mm	100mm	70	16	8	289
P4001-300	0-300mm	0.01mm	±0.04mm	100mm	70	16	8	390
P4001-500	0-500mm	0.01mm	±0.05mm	100mm	70	16	8	590
P4001-600	0-600mm	0.01mm	±0.05mm	100mm	70	16	8	690

SINGLE HOOK DIGITAL DEPTH GAUGE



FEATURES :

- Manual power on/off
- Zero setting at any position
- Metric/Inch system conversion at any position
- Conforming standard: **DIN862**



unit:mm

Model No.	Range mm/in	Resolution mm/in	Accuracy mm	Bridge mm
P4002-150	0-150mm	0.01mm	±0.03mm	100mm
P4002-200	0-200mm	0.01mm	±0.03mm	100mm
P4002-300	0-300mm	0.01mm	±0.04mm	100mm

DOUBLE HOOKS DIGITAL DEPTH GAUGE



FEATURES:

- Manual power on/off
- Zero setting at any position
- Metric/Inch system conversion at any position
- Conforming standard: **DIN862**



unit:mm

Model No.	Range mm/in	Resolution mm/in	Accuracy mm	Bridge mm
P4003-150	0-150mm	0.01mm	±0.03mm	100mm
P4003-200	0-200mm	0.01mm	±0.03mm	100mm
P4003-300	0-300mm	0.01mm	±0.04mm	100mm

NEEDLE DIGITAL DEPTH GAUGE

FEATURES:

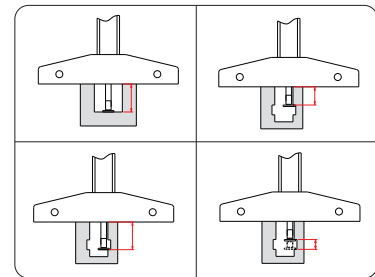
- Manual power on/off
- Zero setting at any position
- Metric/Inch system conversion at any position
- Conforming standard: **DIN862**



unit:mm

Model No.	Range mm/in	Resolution mm/in	Accuracy mm	Bridge mm
P4004-150	0-150mm	0.01mm	±0.03mm	100mm
P4004-200	0-200mm	0.01mm	±0.03mm	100mm
P4004-300	0-300mm	0.01mm	±0.04mm	100mm

MINI DIGITAL DEPTH GAGE



FEATURES :

- Ideal for measuring the width of grooves and distances between grooves
- Thread M2.5, can change tips

unit:mm

Model No.	Range mm/in	Resolution mm/in	Accuracy mm	Bridge mm
P4005-100	0-100mm	0.01mm	±0.02mm	85mm
P4005-150	0-150mm	0.01mm	±0.03mm	85mm

DIGITAL TIRE THREAD DEPTH GAUGE

FEATURES:

- Metric / Inch system interchange
- Manual power on/off
- Suitable for tread depth, brake shoe and pad wear
- Battery: SR44 / LR44, 1.5 V



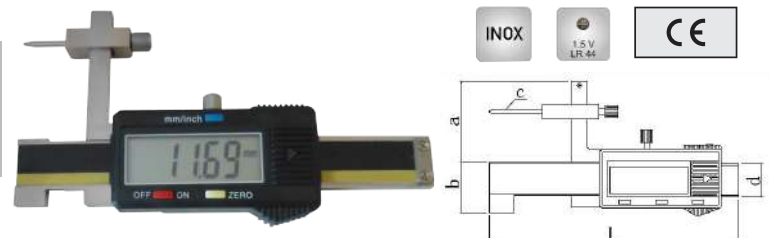
unit:mm

Model No.	Range mm/in	Resolution mm/in	Accuracy mm
P4009-30B	0-25mm/0-1"	0.01mm/0.0005"	±0.03mm

DIGITAL PLANE GAP GAUGE

FEATURES :

- Digital Plane Gap Gauge is an ideal tools to measure the gap between any two planes while assembling car/model components and more

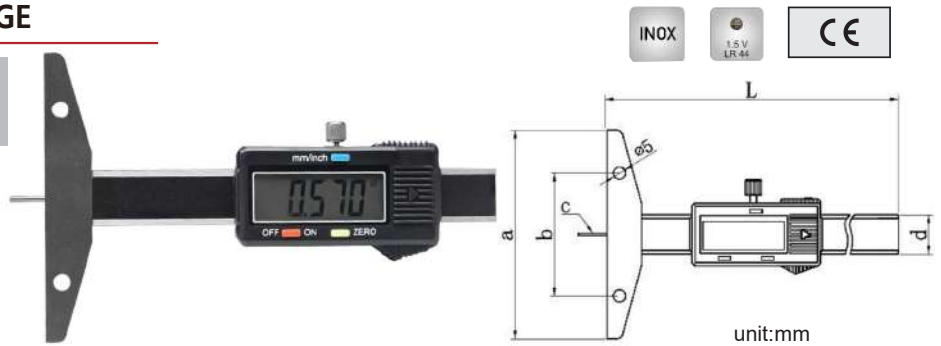


Model No.	Size mm	Resolution mm/in	Accuracy mm	L mm	a	b	c	d	BASE TAPE	unit:mm
P1073-1	0±10mm	0.01mm	±0.03mm	102mm	31	20	2	13	Plain	
P1073-2	0±10mm	0.01mm	±0.03mm	102mm	31	20	2	13	Concave	
P1073-3	0±10mm	0.01mm	±0.03mm	102mm	31	20	2	13	Two points	

MINI DIGITAL DEPTH GAGE

FEATURES:

- With round depth bar \varnothing 3 mm
- Made of stainless steel, hardened



unit:mm

Model No.	Range mm/in	Resolution mm/in	Accuracy mm	L Jmm	a	b	c	d
P4010-50	0-50mm	0.01mm	± 0.03 mm	135mm	85	50	1.5	16
P4010-100	0-100mm	0.01mm	± 0.03 mm	185mm	85	50	2	16
P4010-150	0-150mm	0.01mm	± 0.03 mm	235mm	85	50	2	16
P4010-200	0-200mm	0.01mm	± 0.04 mm	285mm	85	50	3	16
P4010-300	0-300mm	0.01mm	± 0.05 mm	385mm	85	50	4	16

VERNIER PLANE GAP GAUGE

FEATURES:

- Vernier Plane Gap Gauge is an ideal tools to measure the gap between any two planes while assembling car components



unit:mm

Model No.	Size mm	Resolution mm	Accuracy mm
P1070-10	0 ± 10 mm	0.05mm	± 0.05 mm

VERNIER DEPTH GAUGE

FEATURES:

- With thumb knob
- Made of hardened stainless steel
- No glare chrome finished scale
- Packed in plastic box
- Conforming standard: **DIN862**



unit:mm

Model No.	Range mm	Reading mm	Bridge length mm
P4016-150	0-150mm	0.05mm	100mm
P4016-200	0-200mm	0.05mm	100mm
P4016-300	0-300mm	0.05mm	100mm

SINGLE HOOK VERNIER DEPTH GAUGE

FEATURES:

- With thumb knob
- Made of hardened stainless steel
- No glare chrome finished scale
- Packed in plastic box
- Conforming standard: **DIN862**



unit:mm

Model No.	Range mm	Reading mm	Bridge length mm
P4018-150	0-150mm	0.05mm	100mm
P4018-200	0-200mm	0.05mm	100mm
P4018-300	0-300mm	0.05mm	100mm

DOUBLE HOOK DEPTH VERNIER CALIPER

DIN INOX

FEATURES :

- With thumb knob
- Made of hardened stainless steel
- No glare chrome finished scale
- Packed in plastic box
- Conforming standard: **DIN862**



unit:mm

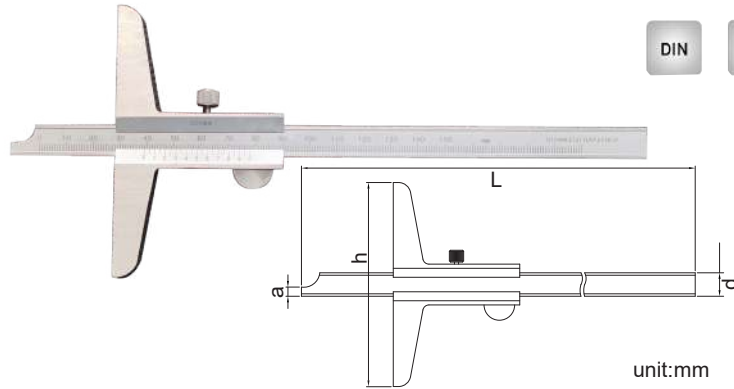
Model No.	Range mm/in	Reading mm	Accuracy mm	Bridge mm
P4024-150	0-150mm	0.05mm	±0.03mm	100mm
P4024-200	0-200mm	0.05mm	±0.03mm	100mm
P4024-300	0-300mm	0.05mm	±0.04mm	100mm

VERNIER DEPTH GAUGE

DIN INOX

FEATURES:

- With thumb knob
- Made of hardened stainless steel
- No glare chrome finished scale and vernier, from 1500mm with fine adj
- Packed in plastic box
- Notes: 0.05mm or inch size optional
- Conforming standard: **DIN862**



unit:mm

Model No.	Range mm	Reading mm	h Bridge length mm	d	a	L
P4014-150	0-150mm	0.02mm	100mm	11	3	239
P4014-200	0-200mm	0.02mm	100mm	11	3	290
P4014-300	0-300mm	0.02mm	100mm	11	3	390
P4014-500	0-500mm	0.02mm	100mm	11	3	600
P4014-600	0-600mm	0.02mm	150mm	11	4	700
P4014-800	0-800mm	0.02mm	150mm	18	6	960
P4014-1000	0-1000mm	0.02mm	200mm	18	6	1170
P4014-1500	0-1500mm	0.02mm	200mm	18	6	1700

EXTENSION BASE FOR DEPTH CALIPER

INOX

FEATURES :

- EXTENSION BASE FOR DEPTH CALIPER AND CALIPER



unit:mm

Model No.	Base length mm
P4030-180	180mm
P4030-260	260mm
P4030-320	320mm

DEPTH BASE FOR CALIPER

INOX

FEATURES:

- Stainless steel hardened
- With fixing screw



→ 75mm



→ 125mm

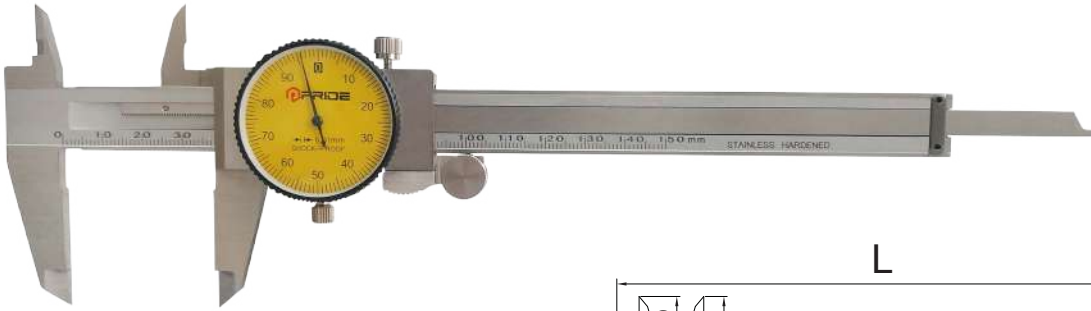
unit:mm

Model No.	Base Size mm	For Caliper Size
P4032-75	75mm	For 100mm , 150mm and 200mm
P4032-100	100mm	For 100mm , 150mm and 200mm
P4032-125	125mm	For 300mm only

DIAL CALIPER

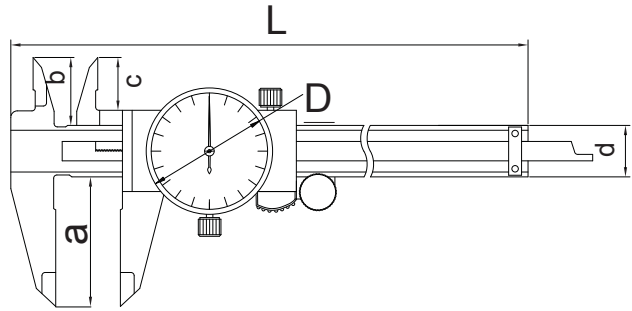
DIN

INOX



FEATURES:

- Rapid movement with roller
- Rack cover prevents dust
- Four ways: ID, OD, Depth&Step.
- Alloyed hardened stainless steel
- Fine polished measuring surface
- With brush
- Conforming standard: DIN862



Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy	a	b	c	d	D	L
P2001-150	0-150mm	0.02mm	±0.03mm	40	21	16.5	16	Φ40	236
P2001-200	0-200mm	0.02mm	±0.03mm	50	24	20	16	Φ40	285
P2001-300	0-300mm	0.02mm	±0.04mm	60	28	22	20	Φ40	410
P2002-6	0-6"	0.001"	±0.001"	40	21	16.5	16	Φ40	236
P2002-8	0-8"	0.001"	±0.001"	50	24	20	16	Φ40	285
P2002-12	0-12"	0.001"	±0.0015"	60	28	22	20	Φ40	410
P2003-150	0-150mm	0.01mm	±0.03mm	40	21	16.5	16	Φ40	236
P2003-200	0-200mm	0.01mm	±0.03mm	50	24	20	16	Φ40	285
P2003-300	0-300mm	0.01mm	±0.04mm	60	28	22	20	Φ40	410

PREMIUM DIAL CALIPER

DIN

INOX

FEATURES:

- Covered to seal out dirt and grease
- Measure inside, outside, diameter, steps, depth etc
- Zero can be quickly and easily reset
- Gear mechanism shockproof system
- Rugged stainless steel and satin chrome finish for long life
- Conforming standard: **DIN862**



Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy
P2009-150	0-150mm	0.02mm	±0.03mm
P2009-200	0-200mm	0.02mm	±0.03mm
P2009-300	0-300mm	0.02mm	±0.04mm
P2010-6	0-6"	0.001"	±0.001"
P2010-8	0-8"	0.001"	±0.001"
P2010-12	0-12"	0.001"	±0.0015"
P2008-150	0-150mm	0.01mm	±0.03mm
P2008-200	0-200mm	0.01mm	±0.03mm
P2008-300	0-300mm	0.01mm	±0.04mm

HEAVY DUTY DIAL CALIPER



FEATURES:

- Provides highly repeatable inside measurements
- Inside dimension readings directly
- The upper row graduations for inside
- The lower row graduations for outside
- With depth measuring bar

Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy
P2011-300	0-300mm	0.02mm	±0.03mm
P2011-450	0-450mm	0.02mm	±0.04mm
P2011-500	0-500mm	0.02mm	±0.04mm
P2011-600	0-600mm	0.02mm	±0.05mm
P2011-1000	0-1000mm	0.02mm	±0.07mm
P2012-12	0-12"	0.001"	±0.0015"
P2012-18	0-18"	0.001"	±0.002"
P2012-20	0-20"	0.001"	±0.002"
P2012-24	0-24"	0.001"	±0.003"
P2012-40	0-40"	0.001"	±0.004"

OUTSIDE GROOVE DIGITAL CALIPER

FEATURES:

- Easy to measure the width of an outside groove



Unit: mm

Model No.	Range mm/in	Resolution mm/in	Jaw length(mm)
P2015-150	24-150mm	0.02mm	40

INSIDE GROOVE DIGITAL CALIPER

FEATURES:

- Easy to measure the width of an inside groove



Unit: mm

Model No.	Range mm/in	Resolution mm/in	Jaw length mm
P2016-150	10-150mm/6"	0.02mm	40



Caliper Sold Separately

Centerline Gages

- Pairs of conical probes are specially designed for dial and vernier calipers to quickly measure centerline distances.
- The 60° conical probe snugly fits into the holes and takes guesswork away from center distance measurements.

Model No.	Contact For Calipers	Width A	OAL B	Width C
P4033-200	0-200mm	9.5mm	55.5mm	3.6mm
P4033-300	0-300mm	12.70mm	70mm	4.6mm

Centerline Plus Accessory Kit

Fits all 0-150mm Dial, Digital and Vernier Calipers with 3.55 Jaw Thickness.



- Measures places otherwise impossible to reach (undercuts, grooves, shoulders) with a standard caliper.
- Interchangeable centerline cones.
- Threaded holes in accessory jaws allows the use of any AGD standard contact point equipped with #4-48 threads.
- Permanent alignment pin assures easy alignment.
- Case hardened, cold rolled steel.
- Furnished in fitted case.

Disc Size	Min. Bore	Max. Depth	Groove Depth
1/4"	0.625"	0.650"	0.060"
3/8"	0.750"	0.650"	0.110"
1/2"	0.875"	0.650"	0.156"

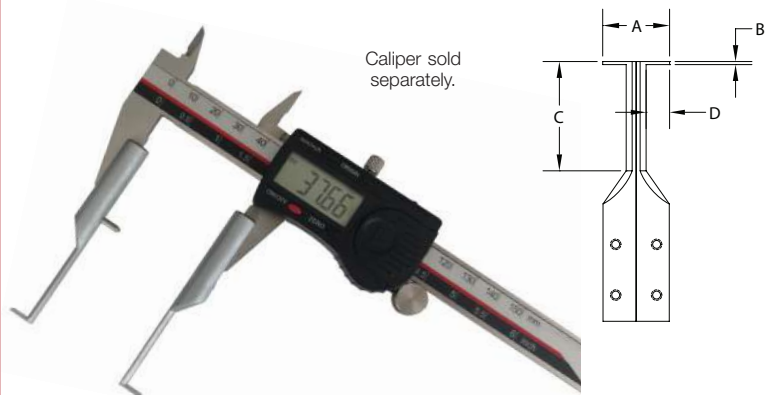
Model No.	Description
P4034-150	Centerline Plus Accessory Kit

Caliper Accessory Kit

- Fits all 0-200mm dial, vernier and electronic calipers.
- Measures slots, grooves, webs, shoulders, holes, pockets and places impossible to reach.
- Adapts in seconds.
- Jaw thickness max.: 3.55mm
- Contains 1 pair each: flat, conical, stem and ball end points.
- Allen wrench and instructions included.



Model No.	Description
P4035-200	Caliper Accessory Kit



Caliper sold separately.



GROOVEMASTER

- Highly effective Caliper Attachment for quick and accurate measurements of internal and external diameters of retaining ring grooves, o-ring grooves and undercuts.
- Available individually and in convenient sets.
- Precision machined from steel, hard chrome plated for extra wear resistance. Fits all 150mm vernier, dial and digital calipers with a maximum jaw-thickness of 3.55mm.
- Measures internal grooves from 5mm up to the capacity of the caliper.

Size	Min. Bore A (mm)	Width of Flg. B (mm)	Max. Depth C (mm)	Groove Depth D (mm)
1	5	0.4	10	1.3
2	7.5	0.4	16	1.75
3	15	0.65	25	5
4	18	1.0	32	6.5
5	External	0.65	68	9.5

Model No.	Description
P4036-5S	Set of 5 pcs., 1 ea. of all sizes



Measuring tool set, 6 pcs/set, in solid aluminum case



Model No.
C\$&##Z##\$F

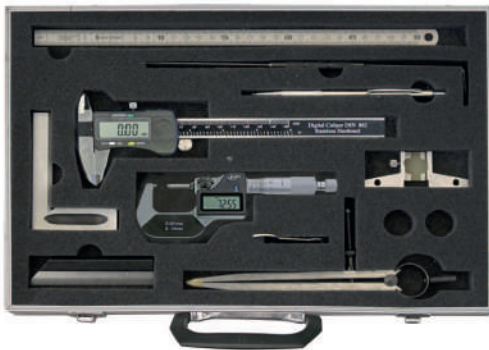
Model No.
C\$&##Z##%F



P1300-001S(100x70mm edge square
+100mm straight edge+divider 150mm
+ruler 300mm+outside micrometer 25mm
+vernier caliper 150mm)

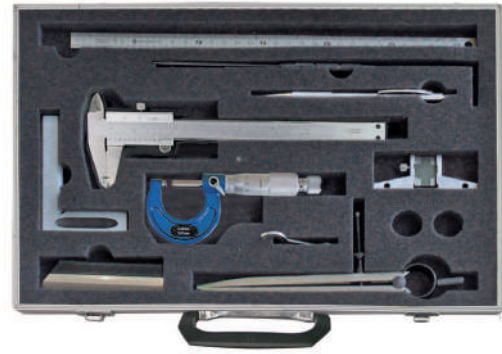
P1300-002S(100x70mm edge square
+100mm straight edge+divider 150mm
+ruler 300mm+outside micrometer 25mm
+digital caliper 150mm)

Measuring tool set, 9 pcs/set, in solid aluminum case



Model No.
C\$&##Z##&F

Model No.
C\$&##Z##' F



P1300-003S=P1300-0201+P1300-0202

P1300-004S=P1300-0201+P1300-0203

Model No.	Contents
P1300-0201	1 Bevel edge square 100 x 70 mm, DIN 875/1
	1 Steel ruler 300 30 x 1 mm
	1 Knife straight edge 100 mm, DIN 874/0
	1 Spring divider 150 mm
	1 Depth base for caliper 75mm
	1 Scriber, 250 mm with double points
	1 Carbide Scriber 150 mm
P1300-0202	1 Digital caliper 150 mm, DIN 862
	1 Digital micrometer 0 - 25 x 0.001 mm, DIN 863
P1300-0203	1 Vernier caliper 150 mm, set screw, DIN 862
	1 Micrometer 0 - 25 mm, DIN 863
P1300-0204	1 Digital caliper 150 mm, DIN 862
	1 Micrometer 0 - 25 mm, DIN 863

MEASURING TOOLS SETS



MEASURING TOOLS SETS 3PCS/SET.

- 1.Digital Caliper P1002-150 0-150mm/6"
- 2.Centerline gages P4033-200
- 3.Depth Base for caliper P4032-75

Model No.

P1300-005S



MEASURING TOOLS SETS 3PCS/SET.

- 1.Digital Caliper P1002-150 0-150mm/6"
- 2.Caliper accessory kit P4035-200
- 3.Depth Base for caliper P4032-75

Model No.

P1300-006S



MEASURING TOOLS SETS 3PCS/SET.

- 1.Digital Caliper P1002-150 0-150mm/6"
- 2.Centerline plus accessory kit P4034-150
- 3.Depth Base for caliper P4032-75

Model No.

P1300-007S

MEASURING TOOLS SETS 3PCS/SET.

- 1.Digital Caliper P1002-300 0-300mm/12"
- 2.Centerline gages P4033-300
- 3.Depth Base for caliper P4032-125

Model No.

P1300-008S



MEASURING TOOLS SETS



MEASURING TOOLS SETS 6PCS/SET.

1. Digital Caliper P1002-150 0-150mm/6"
2. Digital outside micrometer P8004-25D
3. Knife square 100x70mm grade 0
4. Radius Gage 1-7mmmm
5. Feel gauge 0.05-1.00 13 bladesm
6. Screw pitch gauge 0.25-6.00mm/4-62TPI 52pcspcs

Model No.

P1300-009S



MEASURING TOOLS SETS 3PCS/SET.

1. Digital Caliper P1002-150 0-150mm/6"
2. Digital outside micrometer P8004-25D
3. Depth Base for caliper P4032-75

Model No.

P1300-010S

Measuring tool set, 2pcs./ set

- in aluminum case

1. Dial indicator 0 - 10 mm
2. Magnetic stand PS-80B

Model No.

P1300-011S

1. Dial indicator 0 - 10 mm
2. Universal magnetic stand 80kg

Model No.

P1300-012S



P1300-011S

P1300-012S



Magnetic stand wiht dial indicator 3 pcs./ set

-in aluminum case

1. Dial indicator 0 - 10 mm
2. Dial test indicator 0-0.8mm 0.01mm
3. Magnetic stand PS-D2

Magnetic dial support with central mechanical clamping total length 383 mm, magnet force 80 kg/ off switch and prismatic base

Model No.

P1300-013S



***OUTSIDE MICROMETER
SPECIAL MICROMETER
INSIDE MICROMETER
3 POINT INTERNAL MICROMETER
MICROMETER HEAD***



DIGITAL OUTSIDE MICROMETER

FEATURES:

- Resolution:0.001mm/0.00005"
- Painted frame/Ratchet friction thimble
- Buttons:on/off, data set, mm/inch, ABS/INC
- SR44 battery,auto power off
- Carbide tipsDIN863 DIN40050/IEC529
- With battery cover wrench and spare spherical anvil
- Supplied with standard rods
- Packed in plastic box



unit:mm

Model No.	Range mm/in	Accuracy mm
P8008-25	0-25mm/0-1"	±0.002mm
P8008-50	25-50mm/1-2"	±0.002mm
P8008-75	50-75mm/2-3"	±0.003mm
P8008-100	75-100mm/3-4"	±0.003mm
P8008-125	100-125mm/4-5"	±0.003mm
P8008-150	125-150mm/5-6"	±0.003mm
P8008-175	150-175mm/6-7"	±0.004mm
P8008-200	175-200mm/7-8"	±0.004mm
P8008-225	200-225mm/8-9"	±0.004mm
P8008-250	225-250mm/9-10"	±0.004mm
P8008-275	250-275mm/10-11"	±0.005mm
P8008-300	275-300mm/11-12"	±0.005mm

DIGITAL OUTSIDE MICROMETER SETS

Model No.	Range mm/in	Pieces
P8008-75S	0-75mm/0-3"	3pcs
P8008-100S	0-100mm/0-4"	4pcs
P8008-150S	0-150mm/0-6"	6pcs

DIGITAL OUTSIDE MICROMETER IP54

FEATURES:

- Resolution:0.001mm/0.00005"
- Painted frame ,ratchet stop
- Buttons:0/ABS,UNIT/SET,ON/OFF
- CR2032 Lithium battery
- DIN863 DIN40050/IEC529
- With battery cover wrench and spare spherical anvil
- Supplied with standard rods
- Connecting data cable
- Packed in plastic box



unit:mm

Model No.	Range mm/in	Accuracy mm
P8001-25N	0-25mm/0-1"	±0.003mm
P8001-50N	25-50mm/1-2"	±0.003mm
P8001-75N	50-75mm/2-3"	±0.004mm
P8001-100N	75-100mm/3-4"	±0.005mm

DIGITAL OUTSIDE MICROMETER IP65

FEATURES:

- Resolution:0.001mm/0.00005"
- Painted frame
- IP65 protection
- Buttons:on/off, data set, mm/inch, ABS/INC
- SR44 battery,auto power off
- DIN863 DIN40050/IEC529
- With battery cover wrench and spare spherical anvil
- Supplied with standard rods
- Packed in plastic box



unit:mm

Model No. With Data output	Model No. No Data output	Range mm/in	Accuracy mm
P8004-25D	P8004-25	0-25mm/0-1"	±0.002mm
P8004-50D	P8004-50	25-50mm/1-2"	±0.002mm
P8004-75D	P8004-75	50-75mm/2-3"	±0.003mm
P8004-100D	P8004-100	75-100mm/3-4"	±0.003mm
P8004-125D	P8004-125	100-125mm/4-5"	±0.003mm
P8004-150D	P8004-150	125-150mm/5-6"	±0.003mm
P8004-175D	P8004-175	150-175mm/6-7"	±0.004mm
P8004-200D	P8004-200	175-200mm/7-8"	±0.004mm
P8004-225D	P8004-225	200-225mm/8-9"	±0.004mm
P8004-250D	P8004-250	225-250mm/9-10"	±0.004mm
P8004-275D	P8004-275	250-275mm/10-11"	±0.005mm
P8004-300D	P8004-300	275-300mm/11-12"	±0.005mm

IP65 DIGITAL OUTSIDE MICROMETER SETS

Model No. With Data output	Model No. No Data output	Range mm/in	Pieces
P8004-75SD	P8004-75S	0-75mm/0-3"	3pcs
P8004-100SD	P8004-100S	0-100mm/0-4"	4pcs
P8004-150SD	P8004-150S	0-150mm/0-6"	6pcs

DOUBLE DISPLAY DIGITAL OUTSIDE MICROMETER

FEATURES:

- Double sides display, in two directions
- Resolution:0.001mm/0.00005"
- Chrome-plated frame,ratchet friction thimble
- Buttons:on/off, data set, mm/inch, ABS/INC, LCD direction change
- IP54 protection
- CR2032 battery,auto power off,data output
- RS232 output, ratchet friction thimble, carbide tips
- DIN863 DIN40050/IEC529
- With battery cover wrench and spare spherical anvil
- Supplied with standard rods
- Packed in plastic box or wooden box
- ★ Connecting data cable(optional)



unit:mm

Model No.	Range mm/in	Accuracy mm
P8000-30	0-30mm/0-1.2"	±0.002mm
P8000-55	25-55mm/1-2.2"	±0.002mm

DIGITAL OUTSIDE MICROMETER IP65

FEATURES:

- Resolution:0.001mm/0.00005"
- Painted frame ,ratchet stop
- IP65 protection
- Buttons: ON/OFF/SET
- SR44 battery
- DIN863 DIN40050/IEC529
- With battery cover wrench and spare spherical anvil
- Supplied with standard rods
- Packed in plastic box



unit:mm

Model No.	Range mm/in	Accuracy mm
P8003-25	0-25mm/0-1"	±0.002mm
P8003-50	25-50mm/1-2"	±0.002mm
P8003-75	50-75mm/2-3"	±0.003mm
P8003-100	75-100mm/3-4"	±0.003mm
P8003-125	100-125mm/4-5"	±0.003mm
P8003-150	125-150mm/5-6"	±0.003mm
P8003-175	150-175mm/6-7"	±0.004mm
P8003-200	175-200mm/7-8"	±0.004mm
P8003-225	200-225mm/8-9"	±0.004mm
P8003-250	225-250mm/9-10"	±0.004mm
P8003-275	250-275mm/10-11"	±0.005mm
P8003-300	275-300mm/11-12"	±0.005mm

IP65 DIGITAL OUTSIDE MICROMETER SETS

Model No.	Range mm/in	Pieces
P8003-75S	0-75mm/0-3"	3pcs
P8003-100S	0-100mm/0-4"	4pcs
P8003-150S	0-150mm/0-6"	6pcs

DIGIT COUNTER OUTSIDE MICROMETER

FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- Mechanical digit counter
- Counter readout: metric 0.01mm / inch 0.001"
- DIN863
- Ratchet stop, carbide tips, painted frame
- With zero adjusting wrench
- Supplied with standard rods
- Packed in plastic box



unit:mm

Metric		Inch		
Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm
P8032-25	0-25mm	P8032-1	0-1"	0.004mm
P8032-50	25-50mm	P8032-2	1-2"	0.004mm
P8032-75	50-75mm	P8032-3	2-3"	0.005mm
P8032-100	75-100mm	P8032-4	3-4"	0.005mm

OUTSIDE MICROMETER

FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- DIN863
- Ratchet stop, carbide tips, painted and fine cast frame
- With zero adjusting wrench
- Supplied with standard rods
- Packed in plastic box



unit:mm

Metric		Inch		
Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm
P8020-25	0-25mm	P8020-1	0-1"	0.004mm
P8020-50	25-50mm	P8020-2	1-2"	0.004mm
P8020-75	50-75mm	P8020-3	2-3"	0.005mm
P8020-100	75-100mm	P8020-4	3-4"	0.005mm
P8020-125	100-125mm	P8020-5	4-5"	0.006mm
P8020-150	125-150mm	P8020-6	5-6"	0.006mm
P8020-175	150-175mm	P8020-7	6-7"	0.007mm
P8020-200	175-200mm	P8020-8	7-8"	0.007mm
P8020-225	200-225mm	P8020-9	8-9"	0.008mm
P8020-250	225-250mm	P8020-10	9-10"	0.008mm
P8020-275	250-275mm	P8020-11	10-11"	0.009mm
P8020-300	275-300mm	P8020-12	11-12"	0.009mm

Micrometer sets

Model No.	Range mm/in	Model No.	Range mm/in	Pieces
P8020-75S	0-75mm	P8020-3S	0-3"	3pcs
P8020-100S	0-100mm	P8020-4S	0-4"	4pcs
P8020-150S	0-150mm	P8020-6S	0-6"	6pcs
P8020-300S	150-300mm	P8020-12-1S	6-12"	6pcs
P8020-301S	0-300mm	P8020-12-2S	0-12"	12pcs



OUTSIDE MICROMETER 0.001mm

FEATURES:

- Graduation: metric 0.001mm
- DIN863
- Ratchet stop, carbide tips, painted and fine cast frame
- With zero adjusting wrench
- Supplied with standard rods
- Packed in plastic box



unit:mm

Model No.	Range mm/in	Accuracy mm
P8020-25M	0-25mm	0.004mm
P8020-50M	25-50mm	0.004mm
P8020-75M	50-75mm	0.005mm
P8020-100M	75-100mm	0.005mm

CHROME-PLATED OUTSIDE MICROMETER

DIN

FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- DIN863
- Ratchet stop, carbide tips, chrome-plated frame
- With zero adjusting wrench
- Supplied with standard rods
- Packed in plastic box



unit:mm

Metric		Inch		
Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm
P8024-25	0-25mm	P8024-1	0-1"	0.004mm
P8024-50	25-50mm	P8024-2	1-2"	0.004mm
P8024-75	50-75mm	P8024-3	2-3"	0.005mm
P8024-100	75-100mm	P8024-4	3-4"	0.005mm
P8024-125	100-125mm	P8024-5	4-5"	0.006mm
P8024-150	125-150mm	P8024-6	5-6"	0.006mm
P8024-175	150-175mm	P8024-7	6-7"	0.007mm
P8024-200	175-200mm	P8024-8	7-8"	0.007mm

Micrometer sets

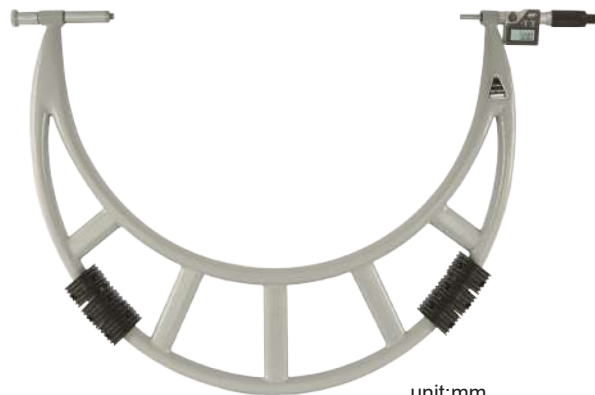
Model No.	Range mm/in	Model No.	Range mm/in	Pieces
P8024-100S	0-100mm	P8024-4S	0-4"	4pcs
P8024-150S	0-150mm	P8024-6S	0-6"	6pcs



DIGITAL MICROMETER WITH ADJUSTABLE ANVILS

FEATURES:

- Adjustable anvils for different measuring range. High accuracy collars
- With standard collars
- Within 1000mm/40":25mm/1",50mm/2"
- IP65 waterproof
- Ratchet stop, carbide tips
- Hollow pipe frame for light weight
- With zero adjusting wrench
- Packed in wooden box



unit:mm

Model No.	Range mm/in	Accuracy mm
P8138-400	300-400mm/12-16"	0.011mm
P8138-500	400-500mm/16-20"	0.013mm
P8138-600	500-600mm/20-24"	0.015mm
P8138-700	600-700mm/24-28"	0.016mm
P8138-800	700-800mm/28-32"	0.018mm
P8138-900	800-900mm/32-36"	0.020mm
P8138-1000	900-1000mm/36-40"	0.020mm

OUTSIDE MICROMETER WITH ADJUSTABLE ANVILS

FEATURES:

- Adjustable anvils for different measuring range
- With standard collars
- Resolution: metric 0.01mm/ inch 0.001"
- Ratchet stop, carbide tips
- Hollow pipe frame for light weight
- With zero adjusting wrench
- Supplied with standard rods
- Packed in wooden box



unit:mm

Travel of micrometer head :25mm/1";micrometer thread pitch :0.5mm/0.025"

Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm
P8043-400	300-400mm	P8043-16	12-16"	0.011mm
P8043-500	400-500mm	P8043-20	16-20"	0.013mm
P8043-600	500-600mm	P8043-24	20-24"	0.015mm
P8043-700	600-700mm	P8043-28	24-28"	0.016mm
P8043-800	700-800mm	P8043-32	28-32"	0.018mm
P8043-900	800-900mm	P8043-36	32-36"	0.020mm
P8043-1000	900-1000mm	P8043-40	36-40"	0.020mm

Travel of micrometer head:50mm/2";micrometer thread pitch:1mm.05"

Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm
P8044-1200	1000-1200mm	P8044-48	40-48"	0.020mm
P8044-1400	1200-1400mm	P8044-56	48-56"	0.024mm
P8044-1600	1400-1600mm	P8044-64	56-64"	0.028mm
P8044-1800	1600-1800mm	P8044-72	64-72"	0.031mm
P8044-2000	1800-2000mm	P8044-80	72-80"	0.034mm
P8044-2200	2000-2200mm	P8044-88	80-88"	0.040mm
P8044-2400	2200-2400mm	P8044-96	88-96"	0.044mm
P8044-2600	2400-2600mm	P8044-104	96-104"	0.048mm
P8044-2800	2600-2800mm	P8044-112	104-112"	0.052mm
P8044-3000	2800-3000mm	P8044-120	112-120"	0.056mm

OUTSIDE MICROMETER WITH INTERCHANGEABLE ANVILS

FEATURES:

- Interchangeable anvils for different measuring range
- Resolution:metric 0.01mm/ inch 0.0001"(within 12"), 0.001"(over 12")
- Ratchet stop, carbide tips
- Fine cast frame micrometers
- Packed in wooden box



unit:mm

Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm	Remarks
P8041-50	0-50mm	P8041-2	0-2"	0.004mm	Fine cast frame
P8041-100	50-100mm	P8041-4-1	2-4"	0.005mm	Fine cast frame
P8041-101	0-100mm	P8041-4-2	0-4"	0.005mm	Fine cast frame
P8041-200	100-200mm	P8041-8	4-8"	0.007mm	Fine cast frame
P8041-300	200-300mm	P8041-12	8-12"	0.009mm	Fine cast frame
P8042-150	0-150mm	P8042-6	0-6"	0.006mm	Fine cast frame
P8042-300	150-300mm	P8042-12	6-12"	0.009mm	Fine cast frame

OUTSIDE MICROMETER WITH INTERCHANGEABLE ANVILS

FEATURES:

- Interchangeable anvils for different measuring range
- Ratchet stop, carbide tips
- Supplied with standard rods
- Packed in wooden box



unit:mm

Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm	Remarks
P8041-400	300-400mm	P8041-16	12-16"	0.011mm	Pipe frame
P8041-500	400-500mm	P8041-20	16-20"	0.013mm	Pipe frame
P8041-600	500-600mm	P8041-24	20-24"	0.015mm	Pipe frame
P8041-700	600-700mm	P8041-28	24-28"	0.016mm	Pipe frame
P8041-800	700-800mm	P8041-32	28-32"	0.018mm	Pipe frame
P8041-900	800-900mm	P8041-36	32-36"	0.020mm	Pipe frame
P8041-1000	900-1000mm	P8041-40	36-40"	0.011mm	Pipe frame
P8042-450	300-450mm	P8042-18	12-18"	0.015mm	Pipe frame
P8042-600	450-600mm	P8042-24	18-24"	0.016mm	Pipe frame
P8042-750	600-750mm	P8042-30	24-30"	0.020mm	Pipe frame
P8042-900	750-900mm	P8042-36	30-36"	0.010mm	Pipe frame
P8042-1050	900-1050mm	P8042-42	36-42"	0.021mm	Pipe frame

OUTSIDE MICROMETER WITH INTERCHANGEABLE ANVILS

FEATURES:

- Interchangeable anvils for different measuring range
- With ratchet stop to fix anvils
- Resolution:0.001mm/0.00005"
- Buttons:on/off, data set, mm/in, ABS/INC, SET
- IP54 protection SR44 battery
- RS232 output,supplied with data output cable, ratchet stop, carbide tips
- Fine cast frame Micrometers within 300mm/12" , pipe frame for over 300mm/12"
- Supplied with standard rods
- Packed in wooden box



unit:mm

Model No.	Range mm/in	Accuracy mm	Remarks
P8037-50	0-50mm/0-2"	0.002mm	Fine cast frame
P8037-100	50-100mm/2-4"	0.003mm	Fine cast frame
P8037-101	0-100mm/0-4"	0.003mm	Fine cast frame
P8037-200	100-200mm/4-8"	0.004mm	Fine cast frame
P8037-300	200-300mm/8-12"	0.005mm	Fine cast frame
P8037-400	300-400mm/12-16"	0.006mm	Pipe frame
P8037-500	400-500mm/16-20"	0.007mm	Pipe frame
P8037-600	500-600mm/20-24"	0.007mm	Pipe frame
P8037-700	600-700mm/24-28"	0.008mm	Pipe frame
P8037-800	700-800mm/28-32"	0.009mm	Pipe frame
P8037-900	800-900mm/32-36"	0.010mm	Pipe frame
P8037-1000	900-1000mm/36-40"	0.010mm	Pipe frame
P8038-150	0-150mm/0-6"	0.003mm	Fine cast frame
P8038-300	150-300mm/6-12"	0.005mm	Fine cast frame
P8038-450	300-450mm/12-18"	0.006mm	Pipe frame
P8038-600	450-600mm/18-24"	0.007mm	Pipe frame
P8038-750	600-750mm/24-30"	0.009mm	Pipe frame
P8038-900	750-900mm/30-36"	0.010mm	Pipe frame
P8038-1050	900-1050mm/36-42"	0.010mm	Pipe frame

OUTSIDE MICROMETER WITH DIAL INDICATOR

FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- Dial indicator: metric 0.01mm / inch 0.0005"
- For direct GO/NG judgement, anvil retracting range: 8mm
- Ratchet stop, carbide tips, painted frame
- Packed in plastic box



unit:mm

Metric		Inch		
Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm
P8050-25	0-25mm	P8050-1	0-1"	0.004mm
P8050-50	25-50mm	P8050-2	1-2"	0.004mm
P8050-75	50-75mm	P8050-3	2-3"	0.005mm
P8050-100	75-100mm	P8050-4	3-4"	0.005mm
P8050-125	100-125mm	P8050-5	4-5"	0.006mm
P8050-150	125-150mm	P8050-6	5-6"	0.006mm
P8050-175	150-175mm	P8050-7	6-7"	0.007mm

INDICATOR SNAP MICROMETER

FEATURES:

- Micrometer head resolution: metric 0.002mm
- Indicator resolution: metric 0.001mm
- Indicator range: metric ± 0.04 mm
- Spindle $\varnothing 6.5$ mm
- Frame and thimble chrome finished
- Packed in aluminum box



unit:mm

Metric		Inch	
Model No.	Range mm/in	Model No.	Range mm/in
P8051-25	0-25mm	P8051-1	0-1"
P8051-50	25-50mm	P8051-2	1-2"
P8051-75	50-75mm	P8051-3	2-3"
P8051-100	75-100mm	P8051-4	3-4"

INDICATOR SNAP MICROMETER

FEATURES:

- Direct GO/NG judgement
- IP54 protection
- Indicator graduation: metric 0.001mm / inch 0.00005"
- Indicator range: metric ± 0.04 mm / inch ± 0.0015 "
- Ratchet stop, carbide tips, painted frame
- Supplied with standard rods
- Packed in aluminum box



unit:mm

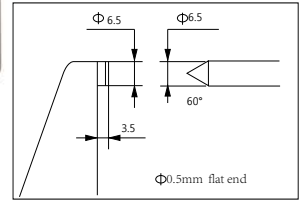
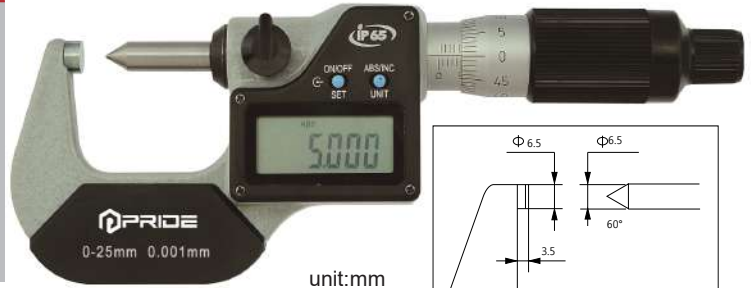
Metric		Inch	
Model No.	Range mm/in	Model No.	Range mm/in
P8053-25	0-25mm	P8053-1	0-1"
P8053-50	25-50mm	P8053-2	1-2"
P8053-75	50-75mm	P8053-3	2-3"
P8053-100	75-100mm	P8053-4	3-4"

ELECTRONIC SINGLE POINT MICROMETER

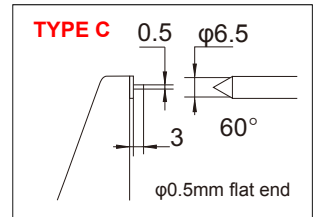


FEATURES:

- Resolution: 0.001mm/0.00005"
- Painted frame, thimble chromed finished
- IP65 protection
- To measure drills, grooves and hard-to-reach dimensions
- carbide tips, ratchet
- DIN40050/IEC529
- Packed in plastic box or wooden box



Model No.	Range mm/in	Accuracy mm
P8054-25N	0-25mm/0-1"	0.004mm
P8054-50N	25-50mm/1-2"	0.004mm
P8054-75N	50-75mm/2-3"	0.005mm
P8054-100N	75-100mm/3-4"	0.005mm
P8054-25NC	0-25mm/0-1"	0.004mm TYPE C



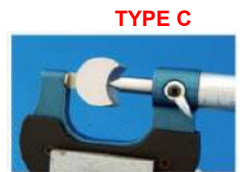
SINGLE POINT MICROMETER

FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- Ratchet stop, carbide tips, painted and fine cast frame
- To measure drills, grooves and hard-to-reach dimensions
- Type A anvilis standard, type B and C are optional
- With zero adjusting wrench
- Supplied with standard rods
- Packed in plastic box



Metric		Inch		
Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm
P8056-25	0-25mm	P8056-1	0-1"	0.004mm
P8056-50	25-50mm	P8056-2	1-2"	0.004mm
P8056-75	50-75mm	P8056-3	2-3"	0.005mm
P8056-100	75-100mm	P8056-4	3-4"	0.005mm
P8056-25C	0-25mm	P8056-1C	0-1"	0.004mm



TYPE C

ELECTRONIC DOUBLE POINT MICROMETER



FEATURES:

- Resolution: 0.001mm/0.00005"
- Painted frame, ratchet stop
- IP65 protection
- Pointed spindle and anvil tips to measure the web thickness of drills, small grooves and keyways
- Measure tip 30 degree with SR0.3mm/0.012"
- SR44 battery, auto power off, data output
- DIN40050/IEC529
- Packed in plastic box or wooden box



Model No.	Range mm/in	Accuracy mm
P8057-25	0-25mm/0-1"	0.004mm
P8057-50	25-50mm/1-2"	0.004mm
P8057-75	50-75mm/2-3"	0.005mm
P8057-100	75-100mm/3-4"	0.005mm

DOUBLE POINT MICROMETER

FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- Ratchet stop, carbide tips, painted and fine cast frame
- Pointed spindle and anvil tips to measure the web thickness of drills, small grooves and keyways
- Measure tip 30 degree with SR0.3mm/0.012"
- Packed in plastic box



unit:mm

Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm
P8059-25	0-25mm	P8059-1	0-1"	0.004mm
P8059-50	25-50mm	P8059-2	1-2"	0.004mm
P8059-75	50-75mm	P8059-3	2-3"	0.005mm
P8059-100	75-100mm	P8059-4	3-4"	0.005mm

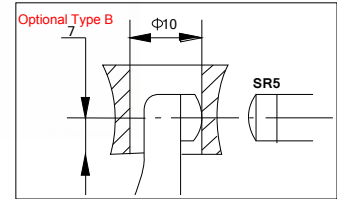
ELECTRONIC TUBE MICROMETER

FEATURES:

- Resolution:0.001mm/0.00005"
- Painted frame ,thimble chromed finished
- IP65 protection
- To measure wall thickness of varios tubes carbide tips,ratchet
- DIN40050/IEC529
- Packed in plastic box or wooden box



unit:mm

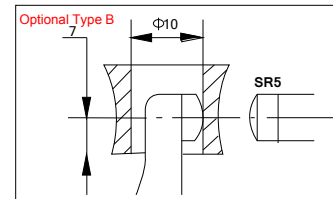
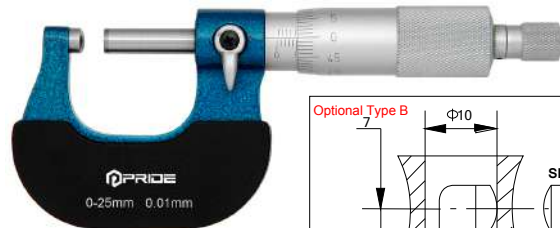


Model No.	Range mm/in	Accuracy mm
P8061-25N	0-25mm/0-1"	0.004mm
P8061-50N	25-50mm/1-2"	0.004mm
P8061-75N	50-75mm/2-3"	0.005mm
P8061-100N	75-100mm/3-4"	0.005mm
P8061-25B Type B	0-25mm/0-1"	0.004mm
P8061-50B Type B	25-50mm/1-2"	0.004mm
P8061-75B Type B	50-75mm/2-3"	0.005mm
P8061-100B Type B	75-100mm/3-4"	0.005mm

GH58' @ 6EB @ 8GBE

FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- Ratchet stop, carbide tips, painted frame
- For wall thickness of tubes
- Spherical Anvil tip, flat spindle tip
- Packed in plastic box



unit:mm

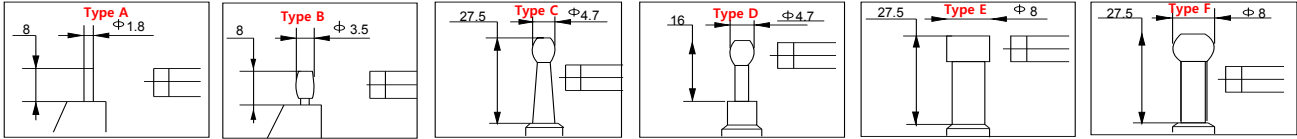
Model No.	Range	Model No.	Range	Accuracy
P8063-25	0-25mm	P8063-1	0-1"	0.004mm
P8063-50	25-50mm	P8063-2	1-2"	0.004mm
P8063-75	50-75mm	P8063-3	2-3"	0.005mm
P8063-100	75-100mm	P8063-4	3-4"	0.005mm
P8063-25B Type B	0-25mm	P8063-1B	0-1"	0.004mm
P8063-50B Type B	25-50mm	P8063-2B	1-2"	0.004mm
P8063-75B Type B	50-75mm	P8063-3B	2-3"	0.005mm
P8063-100B Type B	75-100mm	P8063-4B	3-4"	0.005mm

ELECTRONIC TUBE MICROMETER



FEATURES:

- Resolution: 0.001mm/0.00005"
- Painted frame, ratchet stop
- IP65 protection
- For wall thickness of tubes
- Buttons: on/off, data set, mm/inch, ABS/INC
- Packed in plastic box



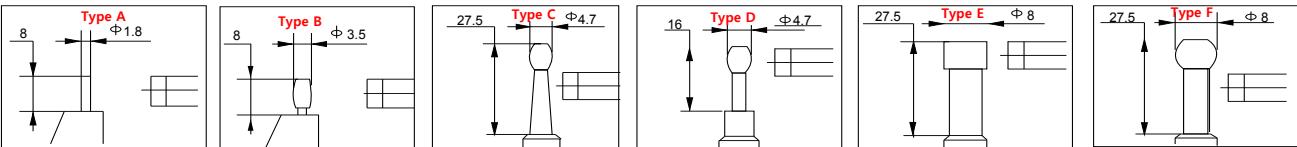
Model No.	Range mm/in	Accuracy mm
P8064-25A	0-25mm/0-1"	0.006mm
P8064-50A	25-50mm/1-2"	0.006mm
P8064-25B	0-25mm/0-1"	0.006mm
P8064-50B	25-50mm/1-2"	0.006mm
P8064-25C	0-25mm/0-1"	0.006mm
P8064-50C	25-50mm/1-2"	0.006mm
P8064-25D	0-25mm/0-1"	0.006mm
P8064-50D	25-50mm/1-2"	0.006mm
P8064-25E	0-25mm/0-1"	0.006mm
P8064-50E	25-50mm/1-2"	0.006mm
P8064-25F	0-25mm/0-1"	0.006mm
P8064-50F	25-50mm/1-2"	0.006mm

unit:mm

TUBE MICROMETER

FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- Ratchet stop, carbide tips, painted and fine cast frame
- For wall thickness of tubes
- Packed in plastic box



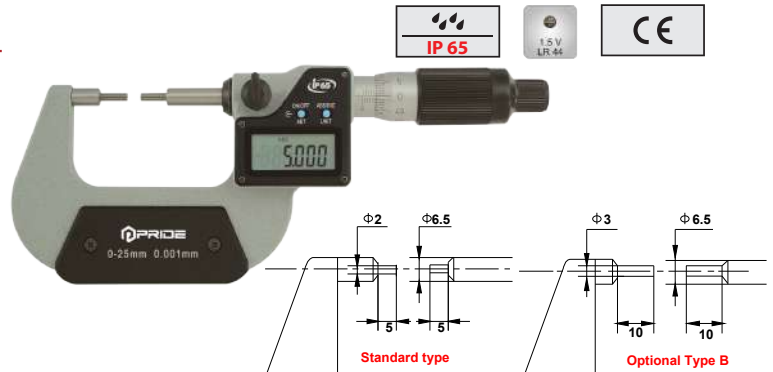
Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm
P8066-25A	0-25mm	P8066-1A	0-1"	0.006mm
P8066-50A	25-50mm	P8066-2A	1-2"	0.006mm
P8066-25B	0-25mm	P8066-1B	0-1"	0.006mm
P8066-50B	25-50mm	P8066-2B	1-2"	0.006mm
P8066-25C	0-25mm	P8066-1C	0-1"	0.006mm
P8066-50C	25-50mm	P8066-2C	1-2"	0.006mm
P8066-25D	0-25mm	P8066-1D	0-1"	0.006mm
P8066-50D	25-50mm	P8066-2D	1-2"	0.006mm
P8066-25E	0-25mm	P8066-1E	0-1"	0.006mm
P8066-50E	25-50mm	P8066-2E	1-2"	0.006mm
P8066-25F	0-25mm	P8066-1F	0-1"	0.006mm
P8066-50F	25-50mm	P8066-2F	1-2"	0.006mm

unit:mm

ELECTRONIC SMALL TIP @ 6EB @ 8GBE

FEATURES:

- Resolution:0.001mm/0.00005"
- Painted frame ,ratchet stop
- IP65,carbided tips
- The anvil and spindle have small diameter tips to measure splined shafts,slots and keyways
- Tips:diameter x length=2x5mm(0.079x0.197")
- Buttons:on/off, data set, mm/inch, ABS/INC
- SR44 battery,auto power off
- Packed in plastic box or wooden box



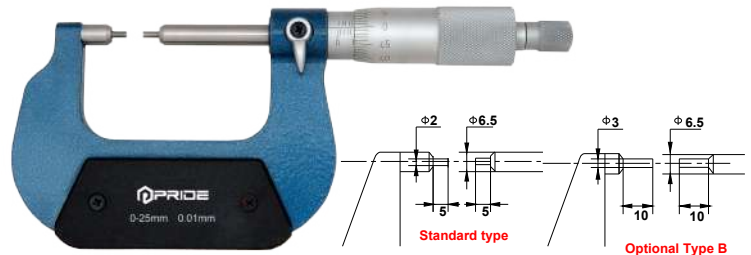
Model No.	Range mm/in	Accuracy mm
P8067-25	0-25mm/0-1"	±0.002mm
P8067-50	25-50mm/1-2"	±0.002mm
P8067-75	50-75mm/2-3"	±0.003mm
P8067-100	75-100mm/3-4"	±0.003mm
P8067-125	100-125mm/4-5"	±0.003mm
P8067-150	125-150mm/5-6"	±0.003mm
P8067-175	150-175mm/6-7"	±0.004mm

unit:mm

SMALL TIP MICROMETER

FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- Ratchet stop, carbide tips, painted and fine cast frame
- The anvil and spindle have small diameter tips to measure splined shafts,slots and keyways
- Packed in plastic box



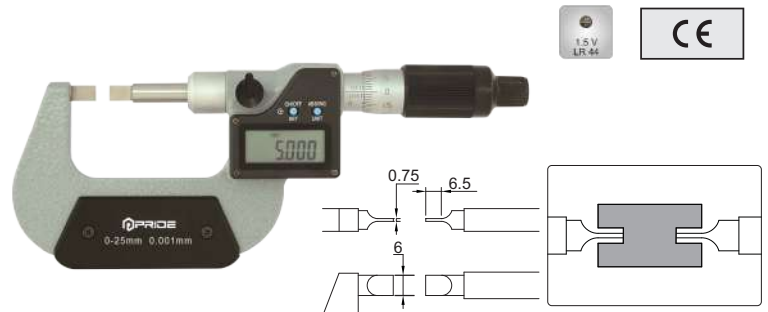
Metric		Inch		
Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm
P8069-25	0-25mm	P8069-1	0-1"	0.004mm
P8069-50	25-50mm	P8069-2	1-2"	0.004mm
P8069-75	50-75mm	P8069-3	2-3"	0.005mm
P8069-100	75-100mm	P8069-4	3-4"	0.005mm
P8069-125	100-125mm	P8069-5	4-5"	0.006mm
P8069-150	125-150mm	P8069-6	5-6"	0.006mm
P8069-175	150-175mm	P8069-7	6-7"	0.007mm

unit:mm

ELECTRONIC BLADE MICROMETER

FEATURES:

- Resolution:0.001mm/0.00005"
- Painted frame ,ratchet stop
- The anvil and spindle have blade tips to measure the groove diameter of shafts and keyways
- Blade tip:thickness x width x length=0.75x6x6.5mm(0.030x0.236x0.256")
- Non-rotating spindle
- Buttons:on/off, data set, mm/inch, ABS/INC
- Packed in plastic box or wooden box



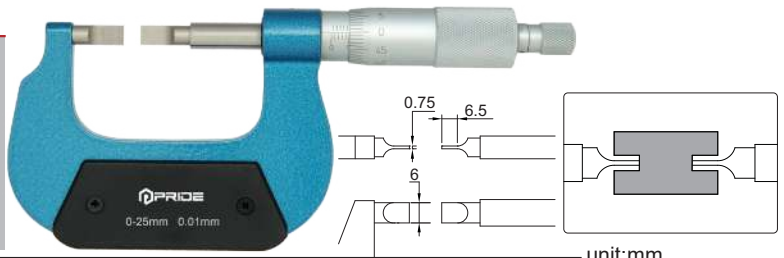
Model No.	Range mm/in	Accuracy mm
P8073-25	0-25mm/0-1"	±0.002mm
P8073-50	25-50mm/1-2"	±0.002mm
P8073-75	50-75mm/2-3"	±0.003mm
P8073-100	75-100mm/3-4"	±0.003mm
P8073-125	100-125mm/4-5"	±0.003mm
P8073-150	125-150mm/5-6"	±0.003mm
P8073-175	150-175mm/6-7"	±0.004mm

unit:mm

BLADE MICROMETER

FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- Ratchet stop, carbide tips, painted and fine cast frame
- The anvil and spindle have blade tips to measure the groove diameter of shafts and keyways
- Blade tip: thickness x width x length=0.75x6x6.5mm
- Non-rotating spindle
- Packed in plastic box



unit:mm

Metric		Inch		
Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm
P8075-25	0-25mm	P8075-1	0-1"	0.004mm
P8075-50	25-50mm	P8075-2	1-2"	0.004mm
P8075-75	50-75mm	P8075-3	2-3"	0.005mm
P8075-100	75-100mm	P8075-4	3-4"	0.005mm
P8075-125	100-125mm	P8075-5	4-5"	0.006mm
P8075-150	125-150mm	P8075-6	5-6"	0.006mm
P8075-175	150-175mm	P8075-7	6-7"	0.007mm

ELECTRONIC GEAR ROOT DIAMETER MICROMETER

FEATURES:

- Resolution:0.001mm/0.00005"
- Painted frame ,ratchet stop
- IP65 protection
- With adjustable anvils
- Micrometer within 200mm/8" have casting frame,over 200mm/8" have pipe frame
- Buttons:on/off, data set, mm/inch, ABS/INC
- SR44 battery,auto power off
- Packed in plastic box or wooden box



unit:mm

Model No.	Range mm/in	Accuracy mm
P8076-100	5-100mm/0.2-4"	0.005mm
P8076-200	100-200mm/4-8"	0.007mm
P8076-300	200-300mm/8-12"	0.009mm
P8076-400	300-400mm/12-16"	0.011mm
P8076-500	400-500mm/16-20"	0.013mm
P8076-600	500-600mm/20-24"	0.015mm
P8076-700	600-700mm/24-28"	0.016mm
P8076-800	700-800mm/28-32"	0.018mm
P8076-900	800-900mm/32-36"	0.020mm

GEAR ROOT DIAMETER MICROMETER

FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- Ratchet stop, carbide tips, painted and fine cast frame
- With adjustable anvils
- Micrometer within 200mm/8" with casting frame,over 200mm/8" with pipe frame
- Packed in plastic box



unit:mm

Metric		Inch		
Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm
P8078-100	5-100mm	P8078-1	0.2-4"	0.005mm
P8078-200	100-200mm	P8078-2	4-8"	0.007mm
P8078-300	200-300mm	P8078-3	8-12"	0.009mm
P8078-400	300-400mm	P8078-4	12-16"	0.011mm
P8078-500	400-500mm	P8078-5	16-20"	0.013mm
P8078-600	500-600mm	P8078-6	20-24"	0.015mm
P8078-700	600-700mm	P8078-7	24-28"	0.016mm
P8078-800	700-800mm	P8078-8	28-32"	0.018mm
P8078-900	800-900mm	P8078-9	32-36"	0.020mm

ELECTRONIC DISC BRAKE MICROMETER

FEATURES:

- Resolution: 0.001mm/0.00005"
- Painted frame, ratchet stop
- IP65 protection
- Measure the depth of grooves on the disc of brake
- Carbide tip with 60° point
- Packed in plastic box or wooden box



unit:mm

Model No.	Range mm/in	Accuracy mm
P8079-33N	7.6-33mm/0.3-1.3"	0.004mm
P8079-50N	25-50mm/1-2"	0.004mm

DISC BRAKE MICROMETER

FEATURES:

- Resolution: metric 0.01mm / inch 0.0001"
- Painted frame, ratchet stop
- Measure the depth of grooves on the disc of brake
- Carbide tip with 60° point
- Supplied with standard rods
- Packed in plastic box or wooden box



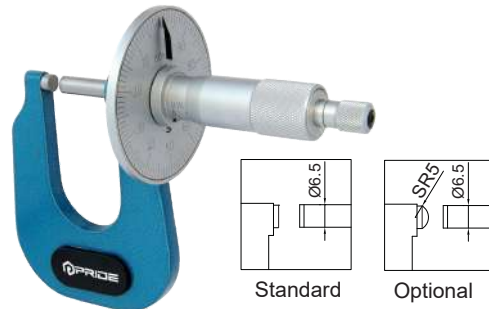
unit:mm

Metric		Inch		
Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm
P8083-33	7.6-33mm	P8083-1.3	0.3-1.3"	0.004mm
P8083-50	25-50mm	P8083-2	1-2"	0.004mm

SHEET METAL MICROMETER

FEATURES:

- Resolution: metric 0.01mm / inch 0.0001"
- Painted frame, ratchet stop
- Measure thickness of sheet metal, paper, plastic and rubber parts
- Carbide flat tips
- With zero adjusting wrench
- Packed in plastic box or wooden box
- ★ Spherical tip optional



unit:mm

Metric			Inch			
Model No.	Range mm/in	Throat depth	Model No.	Range mm/in	Throat depth	Accuracy mm
P8084-15	0-15mm	50mm	P8084-0.6	0-0.6"	2.0"	0.004mm
P8084-25	0-25mm	50mm	P8084-1	0-1"	2.0"	0.004mm
P8084-50	0-50mm	100mm	P8084-2	0-2"	3.9"	0.005mm

DISK MICROMETER-NON ROTATING

FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- Measure for gears and paper thickness
- Ratchet stop, carbide tips, painted frame
- Packed in plastic box or wooden box



unit:mm

Metric		Inch		
Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm
P8087-25	0-25mm	P8087-1	0-1"	0.004mm
P8087-50	25-50mm	P8087-2	1-2"	0.004mm
P8087-75	50-75mm	P8087-3	2-3"	0.005mm
P8087-100	75-100mm	P8087-4	3-4"	0.005mm
P8087-125	100-125mm	P8087-5	4-5"	0.006mm
P8087-150	125-150mm	P8087-6	5-6"	0.006mm
P8087-175	150-175mm	P8087-7	6-7"	0.007mm
P8087-200	175-200mm	P8087-8	7-8"	0.007mm

ELECTRONIC DISK MICROMETER-NON ROTATING

FEATURES:

- Resolution:0.001mm/0.00005"
- Painted frame,ratchet stop
- Non-rotating spindle
- IP65 level
- Measure for gears and paper thickness
- Buttons:on/off, data set, mm/inch, ABS/INC
- SR44 battery,auto power off
- Packed in plastic box or wooden box



Model No.	Range mm/in	Accuracy mm	unit:mm
P8085-25	0-25mm/0-1"	0.004mm	
P8085-50	25-50mm/1-2"	0.004mm	
P8085-75	50-75mm/2-3"	0.005mm	
P8085-100	75-100mm/3-4"	0.005mm	
P8085-125	100-125mm/4-5"	0.006mm	
P8085-150	125-150mm/5-6"	0.006mm	
P8085-175	150-175mm/6-7"	0.007mm	
P8085-200	175-200mm/7-8"	0.007mm	

DISK MICROMETER

FEATURES:

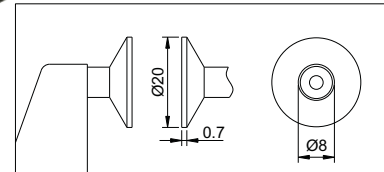
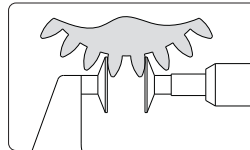
- Graduation: metric 0.01mm / inch 0.0001"
- Measure for gears and paper thickness
- Ratchet stop, carbide tips, painted frame
- With zero adjusting wrench
- Supplied with standard rods
- Packed in plastic box or wooden box



Setting standards(included)



Application



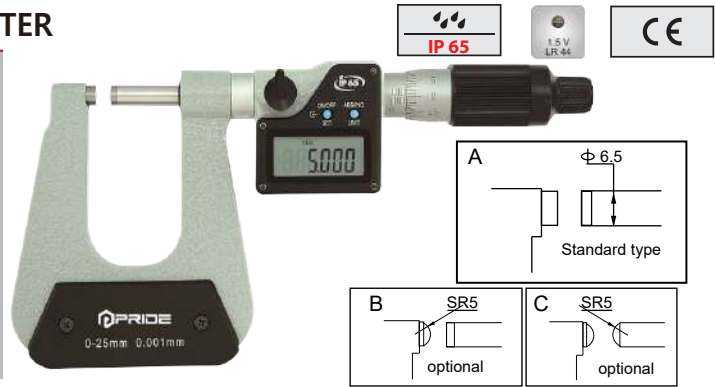
unit:mm

Metric		Inch		
Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm
P8088-25	0-25mm	P8088-1	0-1"	0.004mm
P8088-50	25-50mm	P8088-2	1-2"	0.004mm
P8088-75	50-75mm	P8088-3	2-3"	0.005mm
P8088-100	75-100mm	P8088-4	3-4"	0.005mm
P8088-125	100-125mm	P8088-5	4-5"	0.006mm
P8088-150	125-150mm	P8088-6	5-6"	0.006mm
P8088-175	150-175mm	P8088-7	6-7"	0.007mm
P8088-200	175-200mm	P8088-8	7-8"	0.007mm
P8088-225	200-225mm	P8088-9	8-9"	0.008mm
P8088-250	225-250mm	P8088-10	9-10"	0.008mm
P8088-275	250-275mm	P8088-11	10-11"	0.009mm
P8088-300	275-300mm	P8088-12	11-12"	0.009mm
P8088-325	300-325mm	P8088-13	12-13"	--
P8088-350	325-350mm	P8088-14	13-14"	--
P8088-375	350-375mm	P8088-15	14-15"	--
P8088-400	375-400mm	P8088-16	15-16"	--

ELECTRONIC DEEP THROAT MICROMETER

FEATURES:

- Resolution:0.001mm/0.00005"
- Painted frame,ratchet friction thimble
- IP65 protection
- Deep throat frame for measuring thickness of sheet metal,paper and sheet plastic etc
- Buttons:on/off, data set, mm/inch, ABS/INC
- SR44 battery,auto power off
- Supplied with standard rods
- Packed in plastic box or wooden box
- Tips type A is standard,type B and C are optional



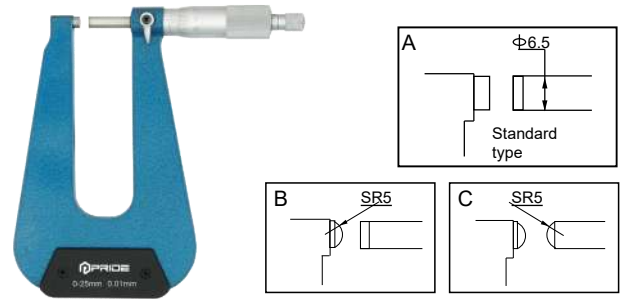
Model No.	Range mm/in	Graduation	Accuracy
P, \$- ' ! &) !) \$B	\$! &) mm/\$! %"	) \$a a	0.002mm
P, \$- ' -) \$-) \$B	&) !) \$mm/% & "	) \$a a	0.002mm
P, \$- ' -&) -%\$ \$B	\$! &) mm/\$! %"	%\$ \$a a	0.003mm
P, \$- ' -) \$- %\$ \$B	&) !) \$mm/% & "	%\$ \$a a	0.003mm
P, \$- ' -&) -%\$ \$B	\$! &) mm/\$! %"	%\$ \$a a	0.004mm
P, \$- ' -) \$- %\$ \$B	&) !) \$mm/% & "	%\$ \$a a	0.004mm
P, \$- ' -&) -' \$ \$B	\$! &) mm/\$! %"	' \$ \$a a	0.005mm Type B

unit:mm

SMALL TIP MICROMETER

FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- Painted frame,ratchet stop
- Deep throat frame for measuring thickness of sheet metal,paper and sheet plastic etc
- Supplied with standard rods
- Packed in plastic box or wooden box
- Tips type A is standard,type B and C are optional



Metric		Inch		Throat depth	Accuracy mm
Model No.	Range mm/in	Model No.	Range mm/in		
P8094-25-50	0-25mm	P8092-1-50	0-1"	50mm	0.004mm
P8094-50-50	25-50mm	P8092-2-50	1-2"	50mm	0.004mm
P8094-25-100	0-25mm	P8092-1-100	0-1"	100mm	0.005mm
P8094-50-100	25-50mm	P8092-2-100	1-2"	100mm	0.005mm
P8094-25-150	0-25mm	P8092-1-150	0-1"	150mm	0.006mm
P8094-50-150	25-50mm	P8092-2-150	1-2"	150mm	0.006mm
P8094-25-300	0-25mm	P8092-1-300	0-1"	300mm	0.007mm Type B
P8094-50-300	25-50mm	P8092-2-300	1-2"	300mm	0.007mm Type B

unit:mm

GEAR MICROMETER

FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- Painted frame,ratchet stop
- Measuring tips not included as standard accessory
- Supplied with standard rods
- Packed in plastic box or wooden box
- ★ All measuring tips are optional



unit:mm

Metric		Inch		Accuracy mm
Model No.	Range mm/in	Model No.	Range mm/in	
P8100-25	0-25mm	P8101-1	0-1"	0.004mm
P8100-50	25-50mm	P8101-2	1-2"	0.004mm
P8100-75	50-75mm	P8101-3	2-3"	0.005mm
P8100-100	75-100mm	P8101-4	3-4"	0.005mm
P8100-125	100-125mm	P8101-5	4-5"	0.006mm
P8100-150	125-150mm	P8101-6	5-6"	0.006mm
P8100-175	150-175mm	P8101-7	6-7"	0.007mm

ELECTRONIC GEAR MICROMETER

FEATURES:

- Resolution:0.001mm/0.00005"
- Painted frame,ratchet stop
- IP65
- Measuring tips not included as standard accessory
- Buttons:on/off, data set, mm/inch, ABS/INC
- SR44 battery,auto power off
- Packed in plastic box or wooden box
- ★ Measuring tips are optional



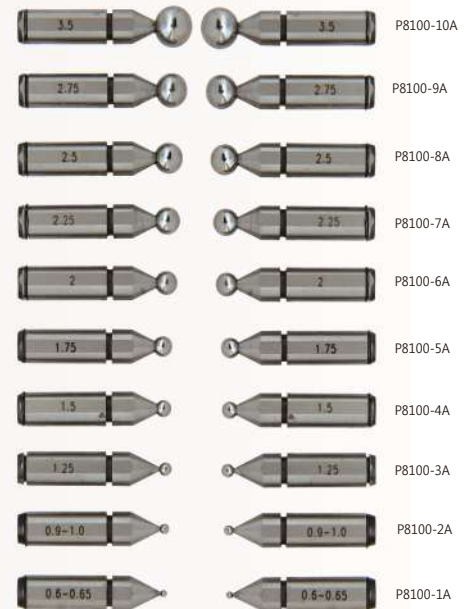
unit:mm

Model No.	Range mm/in	Accuracy mm
P8098-25	0-25mm/0-1"	0.004mm
P8098-50	25-50mm/1-2"	0.004mm
P8098-75	50-75mm/2-3"	0.005mm
P8098-100	75-100mm/3-4"	0.005mm
P8098-125	100-125mm/4-5"	0.006mm
P8098-150	125-150mm/5-6"	0.006mm
P8098-175	150-175mm/6-7"	0.007mm

MEASURING TIFP FOR GEAR MICROMETER AND ELECTRONIC GEAR MICROMETER

Model No.	Ball dia.	Module	Diametral pitch
P8100-1A	Φ1mm/0.04"	0.6-0.65	45
P8100-2A	Φ1.5mm/0.06"	0.9-1.0	28-26
P8100-3A	Φ2.0mm/0.08"	1.25	22
P8100-4A	Φ2.5mm/0.10"	1.5	17
P8100-5A	Φ3.0mm/0.12"	1.75	15
P8100-6A	Φ3.5mm/0.14"	2	13
P8100-7A	Φ4.0mm/0.16"	2.25	11
P8100-8A	Φ4.5mm/0.18"	2.5	10
P8100-9A	Φ5.0mm/0.20"	2.75	9
P8100-10A	Φ6.0mm/0.24"	3.5	7
P8100-11A	Set(Φ1mm/0.04",Φ1.5mm/0.06",Φ2.0mm/0.08",Φ2.5mm/0.10",Φ3.0mm/0.12",Φ3.5mm/0.14",Φ4.0mm/0.16",Φ4.5mm/0.18",Φ5.0mm/0.20",Φ6.0mm/0.24")		

P8100-11A



ELECTRONIC UNIVERSAL MICROMETER

FEATURES:

- Resolution:0.001mm/0.00005"
- Painted frame,ratchet stop
- IP65 protection
- With 7 pairs of measuring tips:flat, spherical,spline, disk,blade,point 60°, knife-edge 60°
- Buttons:on/off, data set, mm/inch, ABS/INC
- Packed in plastic box or wooden box
- Point 55°is optional, knife-edge 55° is optional



unit:mm

Model No.	Range mm/in	Accuracy mm
P, %25	0-25mm/0-1"	0.004mm
P, %50	25-50mm/1-2"	0.004mm
P, %75	50-75mm/2-3"	0.005mm
P, %100	75-100mm/3-4"	0.005mm
P, %125	100-125mm/4-5"	0.006mm
P, %150	125-150mm/5-6"	0.006mm
P, %175	150-175mm/6-7"	0.007mm
P, %200	175-200mm/7-8"	0.007mm

UNIVERSAL MICROMETER

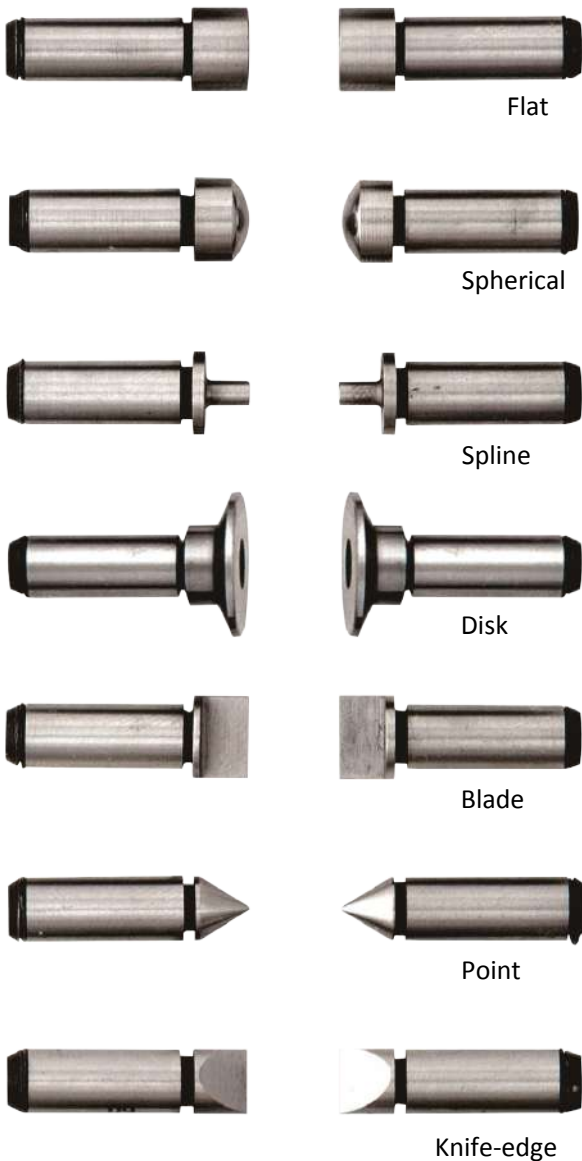
FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- Painted frame, ratchet stop
- With 7 pairs of measuring tips: flat, spherical, spline, disk, blade, point 60°, knife-edge 60°
- Supplied with standard rods
- Packed in plastic box or wooden box
- ★ Point 55° is optional, knife-edge 55° is optional



Metric		Inch		
Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm
P8103-25	0-25mm	P8103-1	0-1"	0.004mm
P8103-50	25-50mm	P8103-2	1-2"	0.004mm
P8103-75	50-75mm	P8103-3	2-3"	0.005mm
P8103-100	75-100mm	P8103-4	3-4"	0.005mm
P8103-125	100-125mm	P8103-5	4-5"	0.006mm
P8103-150	125-150mm	P8103-6	5-6"	0.006mm
P8103-175	150-175mm	P8103-7	6-7"	0.007mm
P8103-200	175-200mm	P8103-8	7-8"	0.007mm

UNIVERSAL ANVILS



Interchangeable Anvils		
Model No.	Anvils	Type
P8100-1	Flat	
P8100-2	Spherical	
P8100-3	Spline	
P8100-4	Disk	
P8100-5	Blade	
60° ; P8100-6 55° ; P8100-7	Point	
60° ; P8100-8 55° ; P8100-9	Knife-edge	
P8100-10	P8100-1, P8100-2, P8100-3, P8100-4, P8100-5, P8100-6, P8100-8	
P8100-11	P8100-1, P8100-2, P8100-3, P8100-4, P8100-5, P8100-7, P8100-9	

ELECTRONIC SCREW THREAD MICROMETER-NON ROTATING

FEATURES:

- Resolution:0.001mm/0.00005"
- Painted frame,ratchet stop
- Measure pitch diameter of screw threads
- V shaped and knife edged Anvils (interchangeable),60° and 55° are optional
- Dimension of anvil tail:Ø5x15mm
- Non-rotating spindle
- Buttons:on/off, mm/inch, ABS/INC



Model No.	Range mm/in	Accuracy mm
P8105-25N	0-25mm/0-1"	0.004mm
P8105-50N	25-50mm/1-2"	0.004mm
P8105-75N	50-75mm/2-3"	0.005mm
P8105-100N	75-100mm/3-4"	0.005mm
P8105-125N	100-125mm/4-5"	0.006mm
P8105-150N	125-150mm/5-6"	0.006mm
P8105-175N	150-175mm/6-7"	0.007mm
P8105-200N	175-200mm/7-8"	0.007mm

unit:mm

ELECTRONIC SCREW THREAD MICROMETER

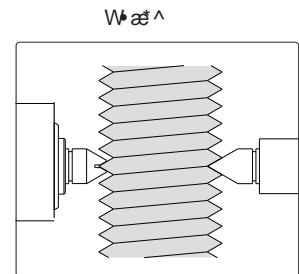
FEATURES:

- Resolution:0.001mm/0.00005"
- Painted frame,ratchet stop
- IP65 protection
- Measure pitch diameter of screw threads
- V shaped and knife edged Anvils (interchangeable),60° and 55° are optional
- Dimension of anvil tail:Ø5x15mm
- Buttons:on/off, mm/inch, ABS/INC
- Packed in plastic box



Model No.	Range mm/in	Accuracy mm
P8108-25	0-25mm/0-1"	0.004mm
P8108-50	25-50mm/1-2"	0.004mm
P8108-75	50-75mm/2-3"	0.005mm
P8108-100	75-100mm/3-4"	0.005mm
P8108-125	100-125mm/4-5"	0.006mm
P8108-150	125-150mm/5-6"	0.006mm
P8108-175	150-175mm/6-7"	0.007mm
P8108-200	175-200mm/7-8"	0.007mm

unit:mm



SCREW THREAD MICROMETER-NON ROTATING

FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- Painted frame,ratchet stop
- Measure pitch diameter of screw threads
- V shaped and knife edged anvils(interchangeable) 60°and 55° are optional
- Dimension of anvil tail:Ø5x15mm
- Non-rotating spindle
- Packed in plastic box



Metric		Inch		
Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm
P8107-25	0-25mm	P8107-1	0-1"	0.004mm
P8107-50	25-50mm	P8107-2	1-2"	0.004mm
P8107-75	50-75mm	P8107-3	2-3"	0.005mm
P8107-100	75-100mm	P8107-4	3-4"	0.005mm
P8107-125	100-125mm	P8107-5	4-5"	0.006mm
P8107-150	125-150mm	P8107-6	5-6"	0.006mm
P8107-175	150-175mm	P8107-7	6-7"	0.007mm
P8107-200	175-200mm	P8107-8	7-8"	0.007mm

unit:mm

SCREW THREAD MICROMETER

FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- Painted frame, ratchet stop
- Measure pitch diameter of screw threads
- V shaped and cone shaped anvils (interchangeable) 60°-1-1.75mm/ 24-14TPI standard
V shaped and cone shaped anvils(interchangeable) 60°, but 55° is optional
- Dimension of anvil tail: Ø5x15mm
- Packed in plastic box or wooden box



unit:mm

Metric		Inch		
Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm
P8109-25	0-25mm	P8109-1	0-1"	0.004mm
P8109-50	25-50mm	P8109-2	1-2"	0.004mm
P8109-75	50-75mm	P8109-3	2-3"	0.005mm
P8109-100	75-100mm	P8109-4	3-4"	0.005mm
P8109-125	100-125mm	P8109-5	4-5"	0.006mm
P8109-150	125-150mm	P8109-6	5-6"	0.006mm
P8109-175	150-175mm	P8109-7	6-7"	0.007mm
P8109-200	175-200mm	P8109-8	7-8"	0.007mm



MEASURING TIP FOR ELECTRONIC AND SCREW THREAD MICROMETER

V-shaped and knife edged anvils for non-rotating screw micrometer

All anvils are optional

Model No.	Pitch
P8107-1M	0.4-0.5mm/ 64-48TPI
P8107-2M	0.6-0.9mm/ 44-28TPI
P8107-3M	1-1.75mm/ 24-14TPI
P8107-4M	2-3mm/ 13-9TPI
P8107-5M	3.5-5mm/ 8-5TPI
P8107-6M	5.5-7mm/ 4.5-3.5TPI
P8107-7M	Sets: 0.4-0.5mm/ 64-48TPI, 0.6-0.9mm/ 44-28TPI, 1-1.75mm/ 24-14TPI, 2-3mm/ 13-9TPI, 3.5-5mm/ 8-5TPI, 3.5-5mm/ 8-5TPI, 5.5-7mm/ 4.5-3.5TPI

Model No.	Pitch
P8107-1T	64-48TPI
P8107-2T	48-40TPI
P8107-3T	40-32TPI
P8107-4T	32-24TPI
P8107-5T	24-18TPI
P8107-6T	18-14TPI
P8107-7T	14-10TPI
P8107-8T	10-7TPI
P8107-9T	7-4.5TPI
P8107-10T	4.5-3.5TPI
P8107-11T	Set: 60-48TPI, 48-40TPI, 40-32TPI, 32-24TPI, 24-18TPI, 18-14TPI, 14-10TPI, 10-7TPI, 7-4.5TPI, 4.5-3.5TPI

V-shaped and con-shaped anvils for screw micrometer

Model No.	Pitch
P8109-1M	0.4-0.5mm/ 64-48TPI
P8109-2M	0.6-0.9mm/ 44-28TPI
P8109-3M	1-1.75mm/ 24-14TPI
P8109-4M	2-3mm/ 13-9TPI
P8109-5M	3.5-5mm/ 8-5TPI
P8109-6M	5.5-7mm/ 4.5-3.5TPI
P8109-7M	Sets: 0.4-0.5mm/ 64-48TPI, 0.6-0.9mm/ 44-28TPI, 1-1.75mm/ 24-14TPI, 2-3mm/ 13-9TPI, 3.5-5mm/ 8-5TPI, 3.5-5mm/ 8-5TPI, 5.5-7mm/ 4.5-3.5TPI

Model No.	Pitch
P8109-1T	64-48TPI
P8109-2T	48-40TPI
P8109-3T	40-32TPI
P8109-4T	32-24TPI
P8109-5T	24-18TPI
P8109-6T	18-14TPI
P8109-7T	14-10TPI
P8109-8T	10-7TPI
P8109-9T	7-4.5TPI
P8109-10T	4.5-3.5TPI
P8109-11T	Set: 60-48TPI, 48-40TPI, 40-32TPI, 32-24TPI, 24-18TPI, 18-14TPI, 14-10TPI, 10-7TPI, 7-4.5TPI, 4.5-3.5TPI

CALIPER TYPE MICROMETER

FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- Painted frame, ratchet stop
- Enable to measuring of hard-to-reach parts
- Non-rotating spindle
- Packed in plastic box or wooden box



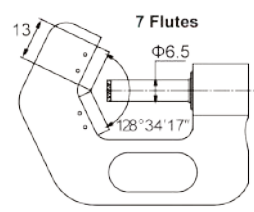
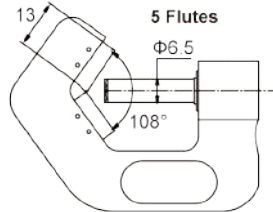
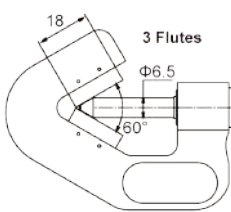
unit:mm

Metric		Inch		
Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm
P8122-25	0-25mm	P8122-1	0-1"	0.004mm
P8122-50	25-50mm	P8122-2	1-2"	0.004mm
P8122-75	50-75mm	P8122-3	2-3"	0.005mm
P8122-100	75-100mm	P8122-4	3-4"	0.005mm

ELECTRONIC V ANVIL MICROMETER

FEATURES:

- Resolution:0.001mm/0.00005"
- Painted frame, ratchet stop
- IP65 protection
- Measure the outside diameter of cutting heads (such as taps, reamers, end mills) with odd number of flutes
- Buttons: on/off, mm/inch, ABS/INC
- Carbide tips
- Packed in plastic box or wooden box



3 flutes Model No.	Range mm/in	Accuracy mm
P8113-15	1-15mm/0.04-0.6"	0.004mm
P8113-20	5-20mm/0.2-0.8"	0.004mm
P8113-35	20-35mm/0.8-1.4"	0.005mm
P8113-50-1	35-50mm/1.4-2.0"	0.005mm
P8113-65	50-65mm/2.0-2.6"	0.006mm
P8113-80	65-80mm/2.6-3.2"	0.006mm
P8113-95	80-95mm/3.2-3.8"	0.007mm
P8113-25	2.3-25mm/0.09-1"	0.004mm
P8113-50-2	25-50mm/1-2"	0.005mm
5 flutes Model No.	Range mm/in	Accuracy mm
P8114-25	5-25mm/0.2-1.0"	0.004mm
P8114-45	25-45mm/1.0-1.8"	0.005mm
P8114-65	45-65mm/1.8-2.6"	0.006mm
P8114-85	65-85mm/2.6-3.4"	0.007mm
P8114-105	85-105mm/3.4-4.2"	0.008mm
7 flutes Model No.	Range mm/in	Accuracy mm
P8115-25	5-25mm/0.2-1.0"	0.004mm
P8115-45	25-45mm/1.0-1.8"	0.005mm
P8115-65	45-65mm/1.8-2.6"	0.006mm
P8115-85	65-85mm/2.6-3.4"	0.007mm

unit:mm

V ANVIL MICROMETER

FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- Painted frame, ratchet stop
- Measure the outside diameter of cutting heads (such as taps, reamers, end mills) with odd number of flutes
- Packed in plastic box or wooden box



unit:mm

Metric		Inch		
Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm
3 flutes				
P8119-15	1-15mm	P8119-0.6	0.04-0.6"	0.004mm
P8119-20	5-20mm	P8119-0.8	0.2-0.8"	0.004mm
P8119-35	20-35mm	P8119-1.4	0.8-1.4"	0.005mm
P8119-50-1	35-50mm	P8119-2-1	1.4-2.0"	0.005mm
P8119-65	50-65mm	P8119-2.6	2.0-2.6"	0.006mm
P8119-80	65-80mm	P8119-3.2	2.6-3.2"	0.006mm
P8119-95	80-95mm	P8119-3.8	3.2-3.8"	0.007mm
P8119-25	2.3-25mm	P8119-1	0.09-1"	0.004mm
P8119-50-2	25-50mm	P8119-2-2	1-2"	0.005mm
5 flutes				
P8120-25	5-25mm	P8120-1.0	0.2-1.0"	0.004mm
P8120-45	25-45mm	P8120-1.8	1.0-1.8"	0.005mm
P8120-65	45-65mm	P8120-2.6	1.8-2.6"	0.006mm
P8120-85	65-85mm	P8120-3.4	2.6-3.4"	0.007mm
P8120-105	85-105mm	P8120-4.2	3.4-4.2"	0.008mm
7 flutes				
P8121-25	5-25mm	P8121-1.0	0.2-1.0"	0.004mm
P8121-45	25-45mm	P8121-1.8	1.0-1.8"	0.005mm
P8121-65	45-65mm	P8121-2.6	1.8-2.6"	0.006mm
P8121-85	65-85mm	P8121-3.4	2.6-3.4"	0.007mm

ELECTRONIC DEPTH MICROMETER

FEATURES:

- Resolution: 0.001mm/0.00005"
- Painted frame, ratchet stop
- IP65 level
- Flat tips (spherical tips are optional)
- Buttons: on/off, mm/inch, ABS/INC
- SR44 battery, auto power off
- Packed in plastic box or wooden box



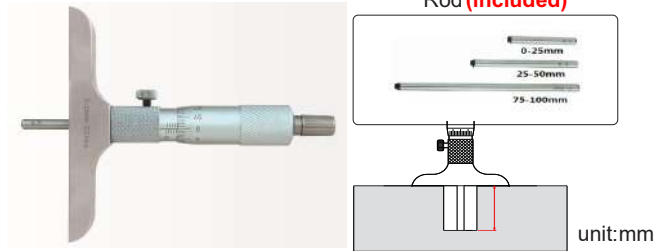
unit:mm

Base size H x W 101x17mm		Base size H x W 63x17mm			
Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm	Rods
P8123-25A	0-25mm/0-1"	P8123-25B	0-25mm/0-1"	0.004mm	1
P8123-50A	0-50mm/0-2"	P8123-50B	0-50mm/0-2"	0.004mm	2
P8123-100A	0-100mm/0-4"	P8123-100B	0-100mm/0-4"	0.005mm	4
P8123-150A	0-150mm/0-6"	P8123-150B	0-150mm/0-6"	0.005mm	6
P8123-200A	0-200mm/0-8"	P8123-200B	0-200mm/0-8"	0.006mm	8
P8123-300A	0-300mm/0-12"	P8123-300B	0-300mm/0-12"	0.007mm	12

DEPTH MICROMETER

FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- Ratchet stop
- Flat tips (spherical tips are optional)
- Base length 101mm and 63x17mm
- Packed in plastic box or wooden box



Base size H x W 101x17mm		Base size H x W 63x17mm			
Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm	Rods
P8125-25A	0-25mm	P8125-25B	0-25mm	0.004mm	1
P8125-50A	0-50mm	P8125-50B	0-50mm	0.004mm	2
P8125-100A	0-100mm	P8125-100B	0-100mm	0.005mm	4
P8125-150A	0-150mm	P8125-150B	0-150mm	0.005mm	6
P8125-200A	0-200mm	P8125-200B	0-200mm	0.006mm	8
P8125-300A	0-300mm	P8125-300B	0-300mm	0.007mm	12

DEPTH MICROMETER with Locking

FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- Ratchet stop
- Flat tips (spherical tips are optional)
- Positive locking clamp
- Packed in plastic box or wooden box



Base size H x W 101x17mm		Base size H x W 63x17mm			
Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm	Rods
P8126-25A	0-25mm	P8126-25B	0-25mm	0.004mm	1
P8126-50A	0-50mm	P8126-50B	0-50mm	0.004mm	2
P8126-100A	0-100mm	P8126-100B	0-100mm	0.005mm	4
P8126-150A	0-150mm	P8126-150B	0-150mm	0.005mm	6
P8126-200A	0-200mm	P8126-200B	0-200mm	0.006mm	8
P8126-300A	0-300mm	P8126-300B	0-300mm	0.007mm	12

PITCH DIAMETER COMPARATOR

FEATURES:

- Dial indicator: 0-5mm 0.01mm
- For measuring the pitch diameter of thread
- Anvil-tail: $\Phi 5 \times 15$ mm
- Packed in aluminum box



Model No.	Range mm/in	Pitch	Accuracy mm	Resolution mm	Anvils
P8137-30-1	2-30mm	0.4-5mm	0.01mm	0.01mm	with full set V-shaped and knife edged anvil Metric screw (60° thread), model no.P8107-7M
P8137-70-1	30-70mm	0.6-7mm	0.01mm	0.01mm	
P8137-30-2	2-30mm	0.4-5mm	0.01mm	0.01mm	with full set interchangeable anvil Model No.8100-10
P8137-70-2	30-70mm	0.6-7mm	0.01mm	0.01mm	
Model No.	Range mm/in	Pitch	Accuracy mm	Resolution mm	Anvils
P8137-1.2-1	0.08-1.2"	64-5TPI	0.0005"	0.0005"	with full set V-shaped and knife edged anvil Metric screw (60° thread), model no.P8107-7M
P8137-2.8-1	1.2-2.8"	44-3.5TPI	0.0005"	0.0005"	
P8137-1.2-2	0.08-1.2"	64-5TPI	0.0005"	0.0005"	with full set interchangeable anvil Model No.8100-10
P8137-2.8-2	1.2-2.8"	44-3.5TPI	0.0005"	0.0005"	

DIAL SNAP GAUGE

FEATURES:

- Measure mass product parts
- Dial gauge 0-1mm, resolution: 0.001mm
- Flat tips $\Phi 8$ mm
- Anvil travel 3mm
- Packed in aluminum box



Model No.	Range mm/in	Type	unit:mm
P8135-25A	0-25mm		Type A
P8135-50A	0-50mm		
P8135-100A	50-100mm		
P8135-150A	100-150mm		
P8135-200A	150-200mm		
P8135-40B	0-40mm		Type B
P8135-90B	40-90mm		
P8135-140B	90-140mm		
P8135-190B	140-190mm		
P8135-40C	0-40mm		Type C
P8135-90C	40-90mm		
P8135-140C	90-140mm		
P8135-190C	140-190mm		

DIGITAL SNAP GAUGE

FEATURES:

- For quick Go/No-Go judgment of diameter of cylinders and shafts
- Digital indicator: range 0-6.5mm, resolution 0.001mm
- Repeatability accuracy 0.001mm
- Moving anvil stroke 3mm
- Digital indicator installing diameter: $\Phi 8$ mm
- Work piece support platform $\Phi 15$ mm
- Measuring anvil: 14x11mm
- Packed in aluminum box

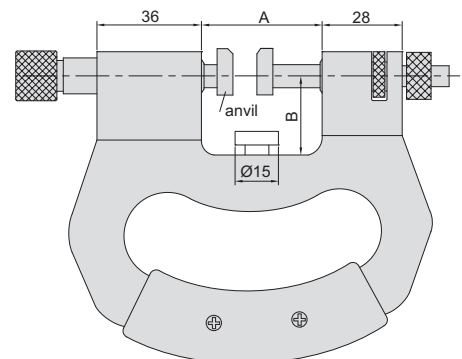


unit:mm



anvil

Model No.	Range mm/in	A	B
P8136-25	0-25mm	42mm	20mm
P8136-50	25-50mm	69mm	32.5mm
P8136-75	50-75mm	94mm	45mm
P8136-100	75-100mm	119mm	57.5mm
P8136-125	100-125mm	144mm	70mm
P8136-150	125-150mm	169mm	82.5mm
P8136-175	150-175mm	194mm	95mm
P8136-200	175-200mm	219mm	107.5mm
P8136-225	200-225mm	244mm	120mm
P8136-250	225-250mm	269mm	132.5mm
P8136-275	250-275mm	294mm	145mm
P8136-300	275-300mm	319mm	157.5mm



INSIDE MICROMETER WITH INTERCHANGEABLE ANVIL

FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- 60° or 55° V-shaped and cone-shaped anvils (interchangeable) are optional
- Steel ball tipped anvils (interchangeable) also optional for measuring over pin diameter of internal gears
- Anvil tail dimension: $\varnothing 5 \times 15$ mm
- With a standard caliper gauge for zero setting
- Packed in wooden box



unit:mm

Metric		Inch		
Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm
P8150-100	75-100mm	P8150-4	3-4"	0.03mm
P8150-125	100-125mm	P8150-5	4-5"	0.03mm
P8150-150	125-150mm	P8150-6	5-6"	0.03mm
P8150-175	150-175mm	P8150-7	6-7"	0.03mm
P8150-200	175-200mm	P8150-8	7-8"	0.04mm
P8150-225	200-225mm	P8150-9	8-9"	0.04mm
P8150-250	225-250mm	P8150-10	9-10"	0.04mm
P8150-275	250-275mm	P8150-11	10-11"	0.04mm
P8150-300	275-300mm	P8150-12	11-12"	0.05mm

Optional anvils

Metric screw (60° thread)

Model No.	Pitch
P8109-7M	Sets: 0.4-0.5mm/ 64-48TPI, 0.6-0.9mm/ 44-28TPI, 1-1.75mm/ 24-14TPI, 2-3mm/ 13-9TPI, 3.5-5mm/ 8-5TPI, 3.5-5mm/ 8-5TPI, 5.5-7mm/ 4.5-3.5TPI



Whitworth screw (55° thread)

Model No.	Pitch
P8109-11T	Set: 60-48TPI, 48-40TPI, 40-32TPI, 32-24TPI, 24-18TPI, 18-14TPI, 14-10TPI, 10-7TPI, 7-4.5TPI, 4.5-3.5TPI

INSIDE MICROMETER

FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- Accuracy: metric
- $(6+L/50\mu m, inch < 0.0003 + 0.00005(L/2) >$
L = maximum measuring length mm/inch
- The interchangeable extension rods provide a wide measuring range
- Each interchangeable rod marked range
- With a standard caliper gauge for zero setting
- Packed in wooden box



unit:mm

Metric		Inch			
Model No.	Range mm/in	Model No.	Range mm/in	Extension rod	Micrometer head size
P8151-32	25-32mm	P8151-1.25	1-1.25"	Micrometer head	25mm
P8151-50	25-50mm	P8151-2	1-2"	2	25mm
P8151-63	50-63mm	P8151-2.5	2-2.5"	Micrometer head	50mm
P8151-200	50-200mm	P8151-8	2-8"	6	50mm
P8151-300	50-300mm	P8151-12	2-12"	10	50mm
P8151-225	200-225mm	P8151-9	8-9"	Micrometer head	200mm
P8151-500	200-500mm	P8151-20	8-20"	3	200mm
P8151-1000	200-1000mm	P8151-40	8-40"	8	200mm

INSIDE MICROMETER

FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- Micrometer head 50-63mm or 2-2.5", diameter of rod 15.5mm or 0.61"
- Carbide tips
- With zero adjusting wrench and standard block
- Chrome-plated rod
- Packed in plastic box or wooden box



Model No.	Range mm/in	Extension rod
P8152-63	50-63mm	Micrometer head
P8152-100	50-100mm	13mm,25mm
P8152-150	50-150mm	13mm,25mm,50mm
P8152-300	50-300mm	13mm,25mm,50mm(2pcs),100mm
P8152-500	50-500mm	13mm,25mm,50mm(2pcs),100mm,200mm
P8152-1000	50-1000mm	13mm,25mm,50mm,100mm(2pcs),150mm,200mm,300mm
P8152-1500	50-1500mm	13mm,25mm,50mm,100mm(2pcs),150mm,200mm(2pcs),300mm(2pcs)
P8152-75	50-75mm	13mm
P8152-175	50-175mm	13mm,25mm(2pcs),50mm
P8152-250	50-250mm	13mm,25mm,50mm,100mm
P8152-600	50-600mm	13mm,25mm,50mm,100mm,150mm,200mm

unit:mm

INSIDE MICROMETER

FEATURES:

- Graduation: metric 0.01mm / inch
- Micrometer head 100-125mm or 4-5", diameter of rod 22mm or 0.866"
- Carbide tips
- With zero adjusting wrench and standard block
- Chrome-plated rod
- Micrometer head travel:25mm/1"
- Packed in wooden box



Model No.	Range mm/in	Extension rod
P8154-125	100-125mm	Micrometer head
P8154-500	100-500mm	25mm,50mm,100mm,200mm
P8154-900	100-900mm	25mm,50mm,100mm,200mm,400mm
P8154-1300	100-1300mm	25mm,50mm,100mm,200mm,400mm(2pcs)
P8154-1700	100-1700mm	25mm,50mm,100mm,200mm,400mm(3pcs)
P8154-2100	100-2100mm	25mm,50mm,100mm,200mm,400mm(4pcs)

unit:mm

INSIDE MICROMETER

FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- Micrometer head 1000-1050mm or 40-42", diameter of rod 28mm or 1.102"
- Carbide tips and painted rod
- With zero adjusting wrench
- Micrometer head travel:50mm/2"
- Packed in wooden box



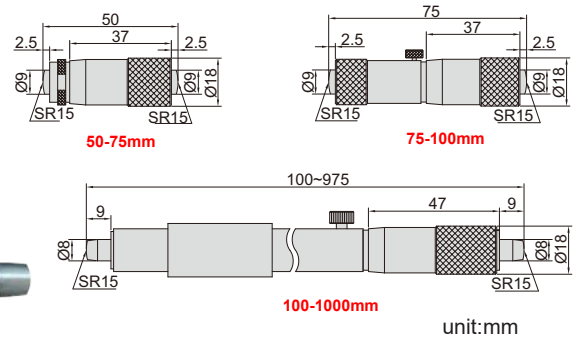
Model No.	Range mm/in	Extension rod
P8157-1050	1000-1050mm	micrometer head
P8157-2000	1000-2000mm	50mm, 100mm(2pcs), 200mm, 500mm
P8157-3000	1000-3000mm	50mm, 100mm(2pcs), 200mm, 500mm, 1000mm
P8157-4000	1000-4000mm	50mm, 100mm(2pcs), 200mm, 500mm, 1000mm(2pcs)
P8157-5000	1000-5000mm	50mm, 100mm(2pcs), 200mm, 500mm, 1000mm(3pcs)

unit:mm

SINGLE ROD INSIDE MICROMETER

FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- Carbide tips
- Diameter of extension rod 16mm or 0.63"
- Packed in wooden box



unit:mm

Metric			Inch		
Model No.	Range mm/in	Accuracy mm	Model No.	Range mm/in	Accuracy mm
P8162-75	50-75mm	0.005mm	P8162-3	2-3"	0.00020"
P8162-100	75-100mm	0.005mm	P8162-4	3-4"	0.00020"
P8162-125	100-125mm	0.006mm	P8162-5	4-5"	0.00024"
P8162-150	125-150mm	0.006mm	P8162-6	5-6"	0.00024"
P8162-175	150-175mm	0.007mm	P8162-7	6-7"	0.00028"
P8162-200	175-200mm	0.007mm	P8162-8	7-8"	0.00028"
P8162-225	200-225mm	0.008mm	P8162-9	8-9"	0.00032"
P8162-250	225-250mm	0.008mm	P8162-10	9-10"	0.00032"
P8162-275	250-275mm	0.009mm	P8162-11	10-11"	0.00036"
P8162-300	275-300mm	0.009mm	P8162-12	11-12"	0.00036"
P8162-325	300-325mm	0.009mm	P8162-13	12-13"	0.00036"
P8162-350	325-350mm	0.009mm	P8162-14	13-14"	0.00036"
P8162-375	350-375mm	0.010mm	P8162-15	14-15"	0.00040"
P8162-400	375-400mm	0.010mm	P8162-16	15-16"	0.00040"
P8162-425	400-425mm	0.010mm	P8162-17	16-17"	0.00040"
P8162-450	425-450mm	0.010mm	P8162-18	17-18"	0.00040"
P8162-475	450-475mm	0.011mm	P8162-19	18-19"	0.00043"
P8162-500	475-500mm	0.011mm	P8162-20	19-20"	0.00043"
P8162-525	500-525mm	0.011mm	P8162-21	20-21"	0.00043"
P8162-550	525-550mm	0.011mm	P8162-22	21-22"	0.00043"
P8162-575	550-575mm	0.011mm	P8162-23	22-23"	0.00043"
P8162-600	575-600mm	0.012mm	P8162-24	23-24"	0.00047"
P8162-625	600-625mm	0.012mm	P8162-25	24-25"	0.00047"
P8162-650	625-650mm	0.012mm	P8162-26	25-26"	0.00047"
P8162-675	650-675mm	0.013mm	P8162-27	26-27"	0.00051"
P8162-700	675-700mm	0.013mm	P8162-28	27-28"	0.00051"
P8162-725	700-725mm	0.013mm	P8162-29	28-29"	0.00051"
P8162-750	725-750mm	0.014mm	P8162-30	29-30"	0.00055"
P8162-775	750-775mm	0.014mm	P8162-31	30-31"	0.00055"
P8162-800	775-800mm	0.014mm	P8162-32	31-32"	0.00055"
P8162-825	800-825mm	0.015mm	P8162-33	32-33"	0.00059"
P8162-850	825-850mm	0.015mm	P8162-34	33-34"	0.00059"
P8162-875	850-875mm	0.015mm	P8162-35	34-35"	0.00059"
P8162-900	875-900mm	0.016mm	P8162-36	35-36"	0.00063"
P8162-925	900-925mm	0.016mm	P8162-37	36-37"	0.00063"
P8162-950	925-950mm	0.016mm	P8162-38	37-38"	0.00063"
P8162-975	950-975mm	0.017mm	P8162-39	38-39"	0.00067"
P8162-1000	975-1000mm	0.017mm	P8162-40	39-40"	0.00067"

INSIDE MICROMETER

FEATURES:

- Graduation: metric 0.01mm / inch 0.0001"
- Micrometer head 150-175mm or 6-7", diameter of rod 22mm or 0.866"
- Carbide tips
- With zero adjusting wrench
- Painted rod
- Packed in wooden box



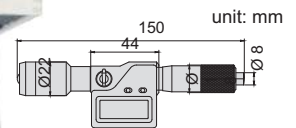
Model No.	Range mm/in	Extension rod
P8159-175	150-175mm	micrometer head
P8159-1500	150-1500mm	25mm, 50mm(2pcs), 100mm(2pcs), 200mm, 400mm(2pcs)
P8159-2000	150-2000mm	25mm, 50mm(2pcs), 100mm, 200mm(2pcs), 400mm(3pcs)
P8159-2100	150-2100mm	25mm, 50mm(2pcs), 100mm(2pcs), 200mm(2pcs), 400mm(3pcs)

unit:mm

DIGITAL COUNTER INSIDE MICROMETER

FEATURES:

- Graduation:metric 0.001mm / inch 0.00005"
- Supply with a standard caliper gage for zero setting
- Digital outside micrometers
- Stroke of micrometer head:25mm/1"
- Packed in wooden box



unit: mm

Model No.	Range mm/in	Extension rod
P8160-175	150-175mm	micrometer head
P8160-1000	150-1000mm	25mm, 50mm(2pcs), 100mm, 200mm, 400mm
P8160-1500	150-1500mm	25mm, 50mm(2pcs), 100mm(2pcs), 200mm, 400mm(2pcs)
P8160-2000	150-2000mm	25mm, 50mm(2pcs), 100mm, 200mm(2pcs), 400mm(3pcs)

unit:mm

DIGITAL INSIDE MICROMETER

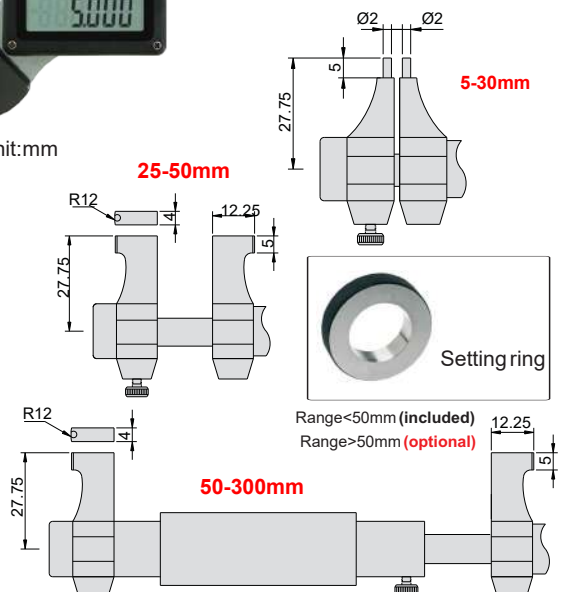
FEATURES:

- Resolution:0.001mm/0.00005"
- Only micrometers 5-30mm/0.2-1.2" and 25-50mm/1-2" supplied with standard rings
- Buttons: on/off, data set, mm/inch, ABS/INC, data output
- SR44 battery, with one spare battery, auto power off
- Carbide tips
- Packed in plastic box or wooden box



Model No.	Range mm/in	Accuracy mm
P8163-30	5-30mm/0.2-1.2"	±0.003mm
P8163-50	25-50mm/1-2"	±0.003mm
P8163-75	50-75mm/2-3"	±0.004mm
P8163-100	75-100mm/3-4"	±0.004mm
P8163-125	100-125mm/4-5"	±0.005mm
P8163-150	125-150mm/5-6"	±0.005mm
P8163-175	150-175mm/6-7"	±0.005mm
P8163-200	175-200mm/7-8"	±0.005mm
P8163-225	200-225mm/8-9"	±0.007mm
P8163-250	225-250mm/9-10"	±0.007mm
P8163-275	250-275mm/10-11"	±0.009mm
P8163-300	275-300mm/11-12"	±0.009mm

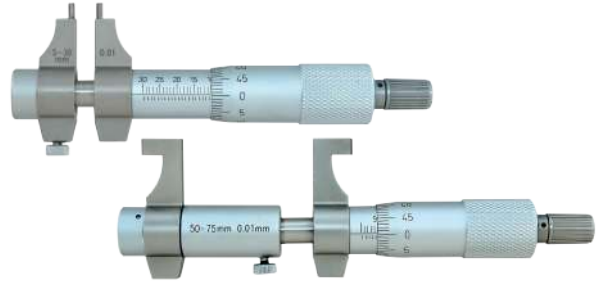
unit:mm



INSIDE MICROMETER

FEATURES:

- Graduation: metric 0.01mm inch 0.001"
- Only micrometers 5-30mm/0.2-1.2" and 25-50mm/1-2" supplied with standard rings
- Ratchet stop, carbide tips
- With zero adjusting wrench
- Packed in plastic box or wooden box



Metric		Inch		
Model No.	Range mm/in	Model No.	Range mm/in	Accuracy mm
P8165-30	5-30mm	P8165-1.2	0.2-1.2"	0.005mm
P8165-50	25-50mm	P8165-2	1-2"	0.006mm
P8165-75	50-75mm	P8165-3	2-3"	0.007mm
P8165-100	75-100mm	P8165-4	3-4"	0.008mm
P8165-125	100-125mm	P8165-5	4-5"	0.009mm
P8165-150	125-150mm	P8165-6	5-6"	0.009mm
P8165-175	150-175mm	P8165-7	6-7"	0.010mm
P8165-200	175-200mm	P8165-8	7-8"	0.010mm
P8165-225	200-225mm	P8165-9	8-9"	0.015mm
P8165-250	225-250mm	P8165-10	9-10"	0.015mm
P8165-275	250-275mm	P8165-11	10-11"	
P8165-300	275-300mm	P8165-12	11-12"	
P8165-325	300-325mm			
P8165-350	325-350mm			
P8165-375	350-375mm			
P8165-400	375-400mm			
P8165-425	400-425mm			
P8165-450	425-450mm			

unit:mm

THREE POINT INTERNAL MICROMETER

FEATURES:

- Graduation: metric 0.001mm / inch 0.0001"
- Ratchet stop, carbide tips, for blind bores
- With standard rings
- Packed in aluminum box



unit:mm

Metric		Inch			
Model No.	Range mm/in	Model No.	Range mm/in	Setting ring	Accuracy mm
P8200-2.5	2-2.5mm	P8200-0.1	0.08-0.1"	Ø2.5mm	0.004mm
P8200-3	2.5-3mm	P8200-0.12	0.1-0.12"	Ø2.5mm	0.004mm
P8200-4	3-4mm	P8200-0.16	0.12-0.16"	Ø4mm	0.004mm
P8200-5	4-5mm	P8200-0.2	0.16-0.2"	Ø5mm	0.004mm
P8200-6	5-6mm	P8200-0.24	0.2-0.24"	Ø6mm	0.004mm

THREE POINT INTERNAL MICROMETER

FEATURES:

- Graduation: metric 0.001mm / inch 0.0001"
- Ratchet stop, carbide tips, for blind bores
- With standard rings
- Measuring depth 53.5mm/2.11", with extension rod 100mm/4"
- Packed in aluminum box



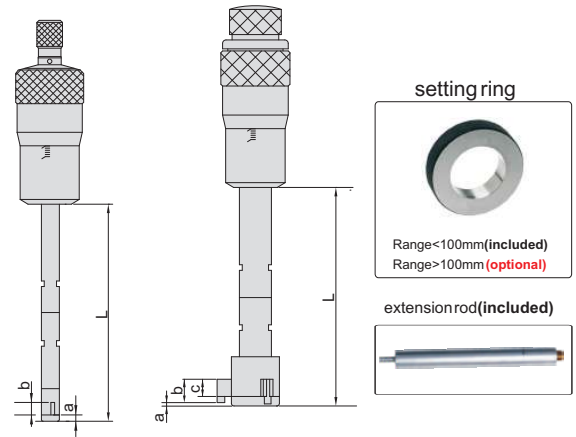
unit:mm

Metric		Inch			
Model No.	Range mm/in	Model No.	Range mm/in	Setting ring	Accuracy mm
P8201-8	6-8mm	P8201-0.35	0.275-0.35"	Ø6mm	0.004mm
P8201-10	8-10mm	P8201-0.425	0.35-0.425"	Ø8mm	0.004mm
P8201-12	10-12mm	P8201-0.5	0.425-0.5"	Ø10mm	0.004mm

THREE POINT INTERNAL MICROMETER

FEATURES:

- Graduation(within 12mm/0.5"): metric 0.001mm / inch 0.0001" Graduation(over 12mm/0.5"): metric 0.005mm/ inch 0.0002"
- Ratchet stop, carbide tips(not include 6-12mm)
- With setting rings, with extension rod,for blind bores
- Packed in aluminum box



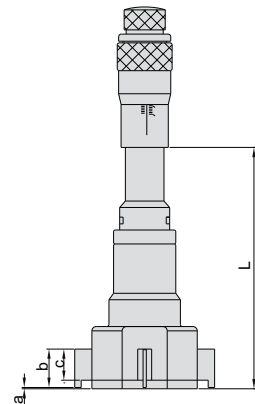
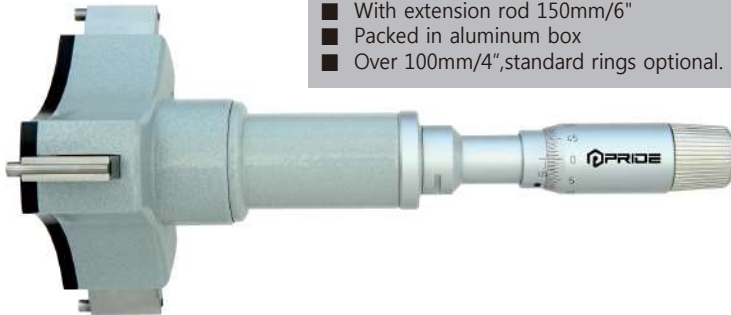
Range 6-12mm Range 12-50mm unit:mm

Metric		Inch		Setting ring	Extension rod	Accuracy mm	a	b	c	L
Model No.	Range mm/in	Model No.	Range mm/in							
P8202-8	6-8mm	P8202-0.35	0.275-0.35"	Ø6mm	100mm	0.004mm	1.5	2.5	-	54.5
P8202-10	8-10mm	P8202-0.42	0.35-0.42"	Ø8mm	100mm	0.004mm	1.5	2.5	-	54.5
P8202-12	10-12mm	P8202-0.5	0.425-0.5"	Ø10mm	100mm	0.004mm	1.5	2.5	-	54.5
P8202-16	12-16mm	P8202-0.65	0.5-0.65"	Ø16mm	150mm	0.004mm	0.5	6	4.5	80
P8202-20	16-20mm	P8202-0.8	0.65-0.8"	Ø16mm	150mm	0.004mm	0.5	6	4.5	80
P8202-25	20-25mm	P8202-1	0.8-1"	Ø25mm	150mm	0.004mm	0.5	8	6	90
P8202-30	25-30mm	P8202-1.2	1-1.2"	Ø25mm	150mm	0.004mm	0.5	8	6	90
P8202-40	30-40mm	P8202-1.6	1.2-1.6"	Ø40mm	150mm	0.004mm	0.5	14	12	97
P8202-50	40-50mm	P8202-2	1.6-2"	Ø40mm	150mm	0.005mm	0.5	14	12	97

THREE POINT INTERNAL MICROMETER

FEATURES:

- Ratchet stop, carbide tips,for blind bores
- With standard rings for within 100mm/4",
- With extension rod 150mm/6"
- Packed in aluminum box
- Over 100mm/4",standard rings optional.



Range 50-300mm unit:mm

Metric		Inch		Setting ring	Extension rod	Accuracy mm	a	b	c	L
Model No.	Range mm/in	Model No.	Range mm/in							
P8203-63	50-63mm	P8203-2.5	2-2.5"	Ø62	150mm	0.005mm	0.5	17.5	14.5	114
P8203-75	62-75mm	P8203-3	2.5-3"	Ø62	150mm	0.005mm	0.5	17.5	14.5	114
P8203-88	75-88mm	P8203-3.5	3-3.5"	Ø87	150mm	0.005mm	0.5	17.5	14.5	114
P8203-100	87-100mm	P8203-4	3.5-4"	Ø87	150mm	0.005mm	0.5	17.5	14.5	114
P8203-125	100-125mm	P8203-5	4-5"	Ø100	150mm	0.005mm	0.9	29	25	145
P8203-150	125-150mm	P8203-6	5-6"	Ø150	150mm	0.005mm	0.9	29	25	145
P8203-175	150-175mm	P8203-7	6-7"	Ø150	150mm	0.005mm	0.9	29	25	145
P8203-200	175-200mm	P8203-8	7-8"	Ø200	150mm	0.005mm	0.9	29	25	145
P8203-225	200-225mm	P8203-9	8-9"	Ø200	150mm	0.007mm	0.9	29	25	145
P8203-250	225-250mm	P8203-10	9-10"	Ø250	150mm	0.007mm	0.9	29	25	145
P8203-275	250-275mm	P8203-11	10-11"	Ø250	150mm	0.007mm	0.9	29	25	145
P8203-300	275-300mm	P8203-12	11-12"	Ø275	150mm	0.007mm	0.9	29	25	145

THREE POINT INTERNAL MICROMETER SET



unit:mm

Model No.	Range mm/in	Model No.	Range mm/in
P8202-3S	2-3mm(2pcs) 2-2.5,2.5-3mm	P8202-0.12S	0.08-0.12" (2pcs)
P8202-6S	3-6mm(3pcs) 3-4,4-5,5-6mm	P8202-0.28S	0.12-0.28" (4pcs)
P8202-12S	6-12mm(3pcs) 6-8,8-10,10-12mm	P8202-0.5S	0.275-0.5"(3pcs)
P8202-20S	12-20mm (2pcs) 12-16,16-20mm	P8202-0.8S	0.5-0.8" (2pcs)
P8202-40S	20-40mm (4pcs) 20-25,25-30,30-40mm	P8202-1.6S	0.8-1.6" (3pcs)
P8202-50S	20-50mm (4pcs)20-25,25-30,30-40,40-50mm	P8202-2S	0.8-2" (4pcs)
P8202-100S	50-100mm (4pcs)50-63,62-75,75-88,87-100mm	P8202-4S	2-4" (4pcs)

LARGE SIZE DIGITAL THREE POINT INTERNAL MICROMETER

FEATURES:

- High accuracy interchangeable measuring rods enable that reading does not resetted after changing
- To measure the bottom of the blind bore
- Buttons:on/off, data set, mm/inch, ABS/INC
- Ratchet stop, carbide tips IP54 level
- Setting ring optional
- Packed in aluminum box



Model No.	Range mm	Accuracy mm	Setting ring	Interchangeable rods(L) mm	Extension rods mm
P8210-500	200-500	(1+L/50)um	Ø200mm	3x50,3x100	150,500
P8210-1000	200-1000	(1+L/50)um	Ø200mm	3x50,3x100,3x150,3x200,3x250,3x300,3x350	150,500,1000



DIGITAL THREE POINT INTERNAL MICROMETER

FEATURES:

- Resolution:0.001mm/0.00005"
- Buttons:on/off, data set, mm/inch, ABS/INC
- IP54 protection
- SR44 battery, with one spare battery,auto power off
- Ratchet stop, carbide tips,for blind bores
- With standard ring
- Packed in aluminum box



unit:mm

Metric			Inch			
Model No.	Range mm/in	Model No.	Range mm/in	Setting ring	Depth	Accuracy mm
P8204-2.5	2-2.5mm	P8204-0.1	0.08-0.1"	Ø2.5mm	12.5mm	0.004mm
P8204-3	2.5-3mm	P8204-0.12	0.1-0.12"	Ø2.5mm	12.5mm	0.004mm
P8204-4	3-4mm	P8204-0.16	0.12-0.16"	Ø4mm	22.5mm	0.004mm
P8204-5	4-5mm	P8204-0.20	0.16-0.20"	Ø5mm	22.5mm	0.004mm
P8204-6	5-6mm	P8204-0.24	0.20-0.24"	Ø6mm	22.5mm	0.004mm

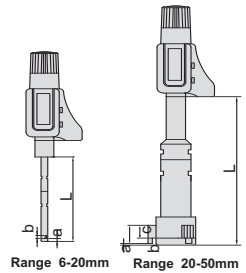
DIGITAL THREE POINT INTERNAL MICROMETER

FEATURES:

- Resolution:0.001mm/0.00005"
- Buttons:on/off, data set, mm/inch, ABS/INC
- IP54 protection
- SR44 battery, with one spare battery,auto power off
- Ratchet stop, carbide tips,for blind bores
- With standard ring
- Packed in aluminum box



unit:mm

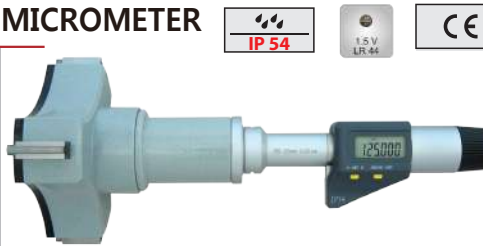


Metric				Inch				
Model No.	Range mm/in	Setting ring	Extension rod	Accuracy mm	a	b	c	L
P8206-8	6-8mm	Ø6mm	100mm	0.004mm	1.5	2.5	-	54.5mm
P8206-10	8-10mm	Ø8mm	100mm	0.004mm	1.5	2.5	-	54.5mm
P8206-12	10-12mm	Ø10mm	100mm	0.004mm	1.5	2.5	-	54.5mm
P8206-16	12-16mm	Ø16mm	150mm	0.004mm	0.5	6	4.5	80mm
P8206-20	16-20mm	Ø16mm	150mm	0.004mm	0.5	6	4.5	80mm
P8206-25	20-25mm	Ø25mm	150mm	0.004mm	0.5	6	6	105mm
P8206-30	25-30mm	Ø25mm	150mm	0.004mm	0.5	8	6	105mm
P8206-40	30-40mm	Ø40mm	150mm	0.004mm	0.5	14	12	110mm
P8206-50	40-50mm	Ø40mm	150mm	0.005mm	0.5	14	12	110mm

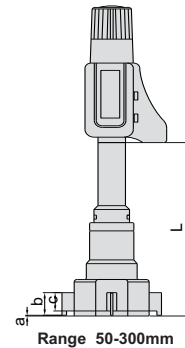
DIGITAL THREE POINT INTERNAL MICROMETER

FEATURES:

- Resolution:0.001mm/0.00005"
- Buttons:on/off, data set, mm/inch, ABS/INC
- IP54 protection
- SR44 battery, with one spare battery,auto power off
- Ratchet stop, carbide tips,for blind bores
- Packed in aluminum box
- Over 100mm/4":standard rings optional



unit:mm



Metric				Inch				
Model No.	Range mm/in	Setting ring	Extension rod	Accuracy mm	a	b	c	L
P8207-63	50-63mm	Ø62mm	150mm	0.005mm	0.5	17.5	14.5	114
P8207-76	62-76mm	Ø62mm	150mm	0.005mm	0.5	17.5	14.5	114
P8207-88	75-88mm	Ø87mm	150mm	0.005mm	0.5	17.5	14.5	114
P8207-100	87-100mm	Ø87mm	150mm	0.005mm	0.5	17.5	14.5	114
P8207-125	100-125mm	Ø100mm	150mm	0.005mm	0.9	29	25	175
P8207-150	125-150mm	Ø150mm	150mm	0.005mm	0.9	29	25	175
P8207-175	150-175mm	Ø150mm	150mm	0.005mm	0.9	29	25	175
P8207-200	175-200mm	Ø200mm	150mm	0.005mm	0.9	29	25	175
P8207-225	200-225mm	Ø200mm	150mm	0.007mm	0.9	29	25	175
P8207-250	225-250mm	Ø250mm	150mm	0.007mm	0.9	29	25	175
P8207-275	250-275mm	Ø250mm	150mm	0.007mm	0.9	29	25	175
P8207-300	275-300mm	Ø275mm	150mm	0.007mm	0.9	29	25	175

DIGITAL THREE POINT INTERNAL MICROMETER SET

Model No.	Range mm/in	Model No.	Range mm/in	MICROMETER SET
P8204-3S	2-3mm(2pcs) 2-2.5,2.5-3mm	P8204-0.12S	0.08-0.12" (2pcs)	
P8204-6S	3-6mm(3pcs) 3-4,4-5,5-6mm	P8204-0.28S	0.12-0.28" (4pcs)	
P8204-12S	6-12mm(3pcs) 6-8,8-10,10-12mm	P8204-0.5S	0.275-0.5" (3pcs)	
P8204-20S	12-20mm (2pcs) 12-16,16-20mm	P8204-0.8S	0.5-0.8" (2pcs)	
P8204-40S	20-40mm (4pcs) 20-25,25-30,30-40mm	P8204-1.6S	0.8-1.6" (3pcs)	
P8204-50S	20-50mm (4pcs)20-25,25-30,30-40,40-50mm	P8204-2S	0.8-2" (4pcs)	
P8204-100S	50-100mm (4pcs)50-63,62-75,75-88,87-100mm	P8204-4S	2-4" (4pcs)	



SELF-CENTERING DIGITAL THREE POINT INTERNAL MICROMETER



FEATURES:

- Resolution:0.001mm/0.00005"
- Buttons:on/off, data set, mm/inch, ABS/INC
- IP54 protection
- SR44 battery, with one spare battery,auto power off
- Ratchet stop, carbide tips
- Self centering 3 point for accurate measurement
- With standard ring
- Packed in aluminum box



unit:mm

Metric		Inch			
Model No.	Range mm/in	Model No.	Range mm/in	Setting ring	Accuracy mm
P8208-70	50-70	P8208-2.8	2-2.8"	Ø50mm	0.004mm
P8208-100	70-100	P8208-4	2.8-4"	Ø70mm	0.004mm
P8208-150	100-150	P8208-6	4-6"	Ø100mm	0.005mm
P8208-250	150-250	P8208-10	6-10"	Ø150mm	0.007mm
P8208-300	200-300	P8208-12	8-12"	Optional	0.007mm

MICROMETER SETS

Model No.	Range mm/in	Model No.	Range mm/in
P8208-100S	50-100mm(2pcs) 50-70,70-100mm	P8208-4S	2-4"(2pcs)
P8208-250S	100-250mm(2pcs) 100-150,150-250	P8208-10S	4-10"(2pcs)



SELF-CENTERING THREE POINT INTERNAL MICROMETER

FEATURES:

- Graduation: metric 0.001mm / inch 0.0001"
- Ratchet stop, carbide tips
- Self centering 3 point for accurate measurement
- With standard ring
- Packed in aluminum box



unit:mm

Metric		Inch			
Model No.	Range mm/in	Model No.	Range mm/in	Setting ring	Accuracy mm
P8209-70	50-70	P8209-2.8	2-2.8"	Ø50mm	0.004mm
P8209-100	70-100	P8209-4	2.8-4"	Ø70mm	0.004mm
P8209-150	100-150	P8209-6	4-6"	Ø100mm	0.005mm
P8209-250	150-250	P8209-10	6-10"	Ø150mm	0.007mm
P8209-300	200-300	P8209-12	8-12"	Optional	0.007mm

MICROMETER SETS

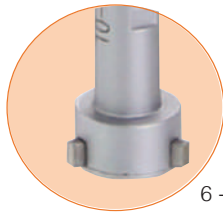
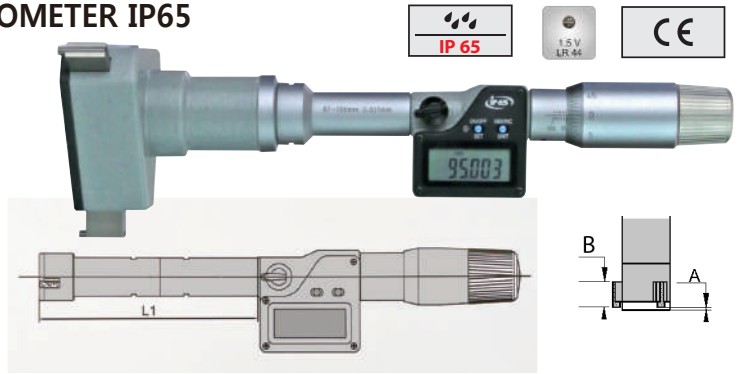
Model No.	Range mm/in	Model No.	Range mm/in
P8209-100S	50-100mm(2pcs) 50-70,70-100mm	P8209-4S	2-4"(2pcs)
P8209-250S	100-250mm(2pcs) 100-150,150-250	P8209-10S	4-10(2pcs)



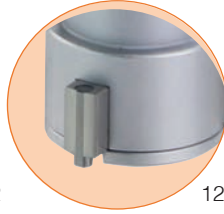
DIGITAL THREE POINT INTERNAL MICROMETER IP65

FEATURES:

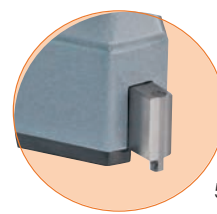
- For blind hole
- With carbide measuring faces from 12 mm
- Satin chrome finished
- Trumble with scale reading: 0.001 mm until 12 mm
0.005 mm at 12 - 16 mm
- With ON/OFF/SET and ABS/INC/UNIT button
- Reading 0.001 mm
- Water and dust protect (IP 65)
- With setting gauge and extension
- In case/box



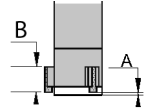
6 - 12



12 - 50



50 - 100



unit:mm

Model No.	Range mm/in	Setting ring mm	Extention mm	Accuracy mm	A mm	L1 mm
P8211-8	6 - 8	Ø6	100 x ø 5,7	0,004mm	0,5	55
P8211-10	8 - 10	Ø8	100 x ø 5,7	0,004mm	0,5	55
P8211-12	10 - 12	Ø10	100 x ø 5,7	0,004mm	0,5	55
P8211-16	12 - 16	Ø12	150 x ø 11,7	0,005mm	0,5	80
P8211-20	16 - 20	Ø16	150 x ø 11,7	0,005mm	0,5	80
P8211-25	20 - 25	Ø25	150 x ø 16,0	0,005mm	0,5	90
P8211-30	25 - 30	Ø25	150 x ø 16,0	0,005mm	0,5	90
P8211-40	30 - 40	Ø40	150 x ø 23,4	0,005mm	0,5	97
P8211-50	40 - 50	Ø40	150 x ø 23,4	0,005mm	0,5	97
P8211-63	50 - 63	Ø62	150 x ø 23,4	0,005mm	0,5	114
P8211-75	62 - 75	Ø62	150 x ø 23,4	0,005mm	0,5	114
P8211-88	75 - 88	Ø87	150 x ø 23,4	0,005mm	0,5	114
P8211-100	87 -100	Ø87	150 x ø 23,4	0,005mm	0,5	114
P8211-125	100-125	Ø100	150 x ø 23,4	0,005mm	0,5	150
P8211-150	125-150	Ø150	150 x ø 23,4	0,005mm	0,5	150
P8211-175	150-175	Ø150	150 x ø 23,4	0,005mm	0,5	150
P8211-200	175-200	Ø200	150 x ø 23,4	0,005mm	0,5	150
P8211-225	200-225	Ø200	150 x ø 23,4	0,007mm	0,5	150
P8211-250	225-250	Ø250	150 x ø 23,4	0,007mm	0,5	150
P8211-275	250-275	Ø250	150 x ø 23,4	0,007mm	0,5	150
P8211-300	275-300	Ø275	150 x ø 23,4	0,007mm	0,5	150

MICROMETER SETS

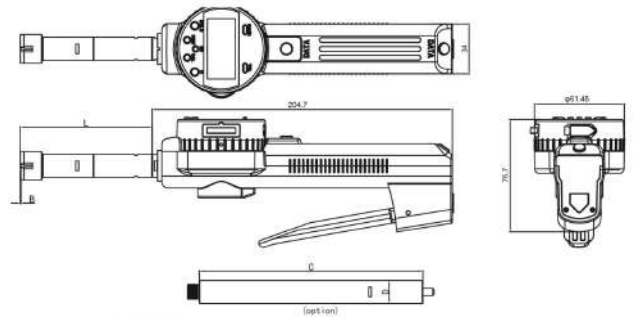
Model No.	Range mm/in	Total pcs	Setting ring mm	Extention mm
P8211-12S	6-12	3	6+8+10	100 x ø 5,7
P8211-20S	12-20	2	16	150 x ø11,7
P8211-50S	20-50	4	25+40	150 x ø11,7 150 x ø 23,4
P8211-100S	50-100	4	62+87	150 x ø 23,4



IP54 FAST THREE-POINT SNAP BORE GAGE

FEATURES:

- Measuring contact points are designed to allow measurements near the bottom of blind holes
- 3V Lithium battery CR2032, battery life > 1 year
- 330-degree rotatable display unit for easy reading at any angle.
- GO/NO-GO judgment function.
- The ABSOLUTE capacitive system eliminates the fear of over-speed errors.
- Measuring surface are carbide (12mm above)
- 3V Lithium battery CR2032
- Built in wireless data transmission (optional). **P8213-8W is wireless data.**
- Sizes bigger than 100mm, setting ring optional
- Packed in aluminum box



unit: mm

Model No.	Range mm/in	Accuracy	Ring gauge	Extension rod C	A (mm)	B (mm)	C (mm)
P8213-8	6-8mm/0.275-0.35"	0.004mm/0.00015"	Ø8mm	101.6mm/4"	55	1	Ø5.8
P8213-10	8-10mm/0.35-0.425"	0.004mm/0.00015"	Ø8mm	101.6mm/4"	55	1.5	Ø5.8
P8213-12	10-12mm/0.425-0.5"	0.004mm/0.00015"	Ø12mm	101.6mm/4"	55	1.5	Ø5.8
P8213-16	12-16mm/0.5-0.65"	0.004mm/0.00015"	Ø16mm	152.4mm/6"	80	0.5	Ø11.8
P8213-20	16-20mm/0.65-0.8"	0.004mm/0.00015"	Ø16mm	152.4mm/6"	80	0.5	Ø11.8
P8213-25	20-25mm/0.8-1.0"	0.004mm/0.00015"	Ø25mm	152.4mm/6"	90	0.5	Ø15.8
P8213-30	25-30mm/1-1.2"	0.004mm/0.00015"	Ø25mm	152.4mm/6"	90	0.5	Ø15.8
P8213-40	30-40mm/1.2-1.6"	0.004mm/0.00015"	Ø40mm	152.4mm/6"	105	0.5	Ø23.5
P8213-50	40-50mm/1.6-2.0"	0.005mm/0.0002"	Ø40mm	152.4mm/6"	105	0.5	Ø23.5
P8213-63	50-63mm/2-2.5"	0.005mm/0.0002"	Ø62mm	152.4mm/6"	127	0.5	Ø23.5
P8213-75	62-75mm/2.5-3.0"	0.005mm/0.0002"	Ø62mm	152.4mm/6"	127	0.5	Ø23.5
P8213-88	75-88mm/3-3.5"	0.005mm/0.0002"	Ø87mm	152.4mm/6"	127	0.5	Ø23.5
P8213-100	87-100mm/3.5-4.0"	0.005mm/0.0002"	Ø87mm	152.4mm/6"	127	0.5	Ø23.5
P8213-125	100-125mm/4.0-5"	0.005mm/0.0002"	Ø125mm	152.4mm/6"	156	1	Ø25.5
P8213-150	125-150mm/5-6"	0.005mm/0.0002"	Ø125mm	152.4mm/6"	156	1	Ø25.5
P8213-175	150-175mm/6-7"	0.005mm/0.0002"	Ø175mm	152.4mm/6"	156	1	Ø25.5
P8213-200	175-200mm/7-8"	0.005mm/0.0002"	Ø175mm	152.4mm/6"	156	1	Ø25.5
P8213-225	200-225mm/8-9"	0.006mm/0.00025"	Ø225mm	152.4mm/6"	156	1	Ø25.5
P8213-250	225-250mm/9-10"	0.006mm/0.00025"	Ø225mm	152.4mm/6"	156	1	Ø25.5
P8213-275	250-275mm/10-11.0"	0.006mm/0.00025"	Ø275mm	152.4mm/6"	156	1	Ø25.5
P8213-300	275-300mm/11-12.0"	0.006mm/0.00025"	Ø275mm	152.4mm/6"	156	1	Ø25.5

IP54 THREE-POINT SNAP BORE GAGE SET

P8213-12S	6-12mm(3pcs)6-8,8-10,10-12mm
P8213-25S	12-25mm (3pcs)12-16,16-20,20-25mm
P8213-50S	25-50mm (3pcs)25-30,30-40,40-50mm
P8213-51S	20-50mm (4pcs)20-25,25-30,30-40,40-50mm
P8213-100S	50-100mm (4pcs)50-63,62-75,75-88,87-100mm

PISTOL-GRIP THREE-POINT BORE GAGE

FEATURES:

- Digital indicator: range 0-10mm/0-0.5", resolution 0.001mm/0.00005" Model P132-212 rotary face, digit/analog display, auto power off
- With ring gage, and extension rod
- Unique System design requires only two handles to accommodate the entire range
- High degree of accuracy can be achieved without need for special skills, sizes bigger than 100mm, setting ring optional.
- Ideally suited to simple or integrated measurement applications
- Ergonomically designed handle offers single handed operation
- Packed in aluminum box



unit:mm

Model No.	Range mm	A(mm)	Ring gage diameter	L(mm)	Extension rod	Accuracy
P5208-8	6-8mm	1.5mm	6mm	50mm	100mm	0.004mm
P5208-10	8-10mm	1.5mm	8mm	50mm	100mm	0.004mm
P5208-12	10-12mm	1.5mm	10mm	50mm	100mm	0.004mm
P5208-16	12-16mm	0.5mm	16mm	65mm	150mm	0.004mm
P5208-20	16-20mm	0.5mm	16mm	65mm	150mm	0.004mm
P5208-25	20-25mm	0.5mm	25mm	91mm	150mm	0.004mm
P5208-30	25-30mm	0.5mm	25mm	91mm	150mm	0.004mm
P5208-40	30-40mm	0.5mm	40mm	97mm	150mm	0.004mm
P5208-50	40-50mm	0.5mm	40mm	97mm	150mm	0.005mm
P5208-63	50-63mm	0.5mm	62mm	112mm	150mm	0.005mm
P5208-75	62-75mm	0.5mm	62mm	112mm	150mm	0.005mm
P5208-88	75-88mm	0.5mm	87mm	112mm	150mm	0.005mm
P5208-100	87-100mm	0.5mm	87mm	112mm	150mm	0.005mm
P5208-125	100-125mm	0.5mm	125mm optional	130mm	150mm	0.005mm
P5208-150	125-150mm	0.5mm	125mm optional	130mm	150mm	0.005mm
P5208-175	150-175mm	0.5mm	150mm optional	130mm	150mm	0.005mm
P5208-200	175-200mm	0.5mm	200mm optional	130mm	150mm	0.005mm
P5208-225	200-225mm	0.5mm	200mm optional	130mm	150mm	0.007mm
P5208-250	225-250mm	0.5mm	250mm optional	130mm	150mm	0.007mm
P5208-275	250-275mm	0.5mm	250mm optional	130mm	150mm	0.007mm
P5208-300	275-300mm	0.5mm	275mm optional	130mm	150mm	0.007mm

PISTOL-GRIP THREE-POINT BORE GAGE SET

Model No.	Range mm/in	Individual range	Standard ring	Extension rod
P5209S-1	6-12mm	6-8,8-10,10-12mm	Ø6,8,10mm	100mm
P5209S-2	12-20mm	12-16,16-20mm	Ø16mm	150mm
P5209S-3	20-50mm	20-25,25-30,30-40,40-50mm	Ø25,40mm	150mm
P5209S-4	50-100mm	50-63,62-75,75-88,87-100mm	Ø62,87mm	150mm



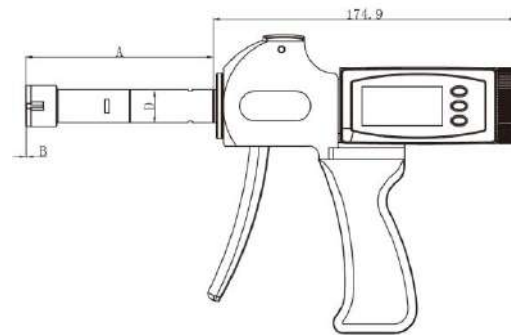
PISTOL-GRIP THREE-POINT BORE GAGE

FEATURES:

- Absolute capacitive system
- 3V Lithium battery CR2032, battery life > 1 year
- SPC data output
- Built in wireless data transmission (optional)
- Ratchet stop
- Measuring contact points are designed to allow measurements near the bottom of blind holes
- Measuring surface are carbide (12mm above)
- Additional extensions can be added to increase the measuring depth (optional)
- Sizes bigger than 100mm, setting rings optional
- Display can rotate 90°
- Packed in aluminum box



PISTOL-GRIP THREE-POINT BORE GAGE



unit:mm

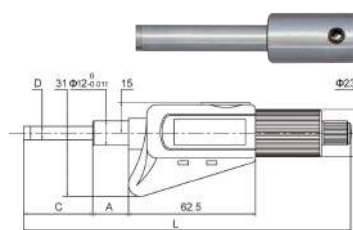
Model No.	Range mm	A(mm)	B(mm)	D(mm)	Setting Ring	Extension rod	Accuracy
P5210-8	6-8mm	75	1	Ø5.8	Ø8mm	100mm	0.004mm
P5210-10	8-10mm	75	1.5	Ø5.8	Ø8mm	100mm	0.004mm
P5210-12	10-12mm	75	1.5	Ø11.8	Ø12mm	100mm	0.004mm
P5210-16	12-16mm	100	0.5	Ø11.8	Ø16mm	150mm	0.004mm
P5210-20	16-20mm	100	0.5	Ø15.8	Ø16mm	150mm	0.004mm
P5210-25	20-25mm	90	0.5	Ø15.8	Ø25mm	150mm	0.004mm
P5210-30	25-30mm	90	0.5	Ø23.5	Ø25mm	150mm	0.004mm
P5210-40	30-40mm	105	0.5	Ø23.5	Ø40mm	150mm	0.004mm
P5210-50	40-50mm	105	0.5	Ø23.5	Ø40mm	150mm	0.005mm
P5210-63	50-63mm	127	0.5	Ø23.5	Ø62mm	150mm	0.005mm
P5210-75	62-75mm	127	0.5	Ø23.5	Ø62mm	150mm	0.005mm
P5210-88	75-88mm	127	0.5	Ø23.5	Ø87mm	150mm	0.005mm
P5210-100	87-100mm	127	0.5	Ø23.5	Ø87mm	150mm	0.005mm
P5210-125	100-125mm	156	1	Ø 25.5	Ø125	150mm	0.005mm
P5210-150	125-150mm	156	1	Ø 25.5	Ø125	150mm	0.005mm
P5210-175	150-175mm	156	1	Ø 25.5	Ø175	150mm	0.005mm
P5210-200	175-200mm	156	1	Ø 25.5	Ø175	150mm	0.005mm
P5210-225	200-225mm	156	1	Ø 25.5	Ø225	150mm	0.006mm
P5210-250	225-250mm	156	1	Ø 25.5	Ø225	150mm	0.006mm
P5210-275	250-275mm	156	1	Ø 25.5	Ø275	150mm	0.006mm
P5210-300	275-300mm	156	1	Ø 25.5	Ø275	150mm	0.006mm

DOUBLE DISPLAY DIGITAL MICROMETER HEAD IP54



FEATURES:

- Resolution:0.001mm/0.00005"
- Buttons:on/off, data set, mm/inch, ABS/INC
- IP54 protection
- Double display, in two directions
- SR44 battery, auto power off
- Ratchet friction thimble
- RS232 output
- Packed in plastic box
- Connecting data cable(optional)



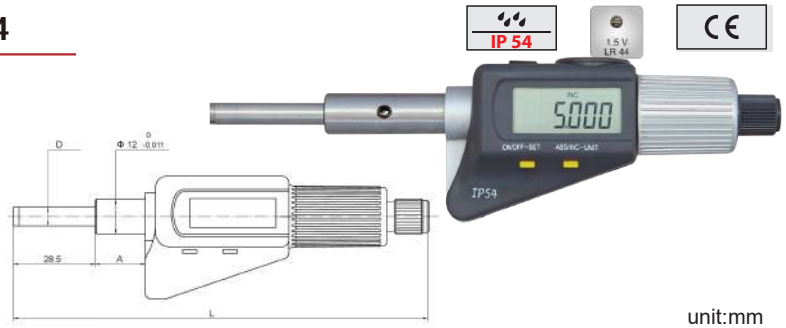
unit:mm

Model No.	Range mm/in	Accuracy mm	A	C	D	L	Remarks
P8240-30-1	0-30mm/0-1.2"	0.003mm	17.5	34mm	Ø6.5mm	159mm	Flat & Carbide tip
P8240-30-2	0-30mm/0-1.2"	0.003mm	20.5	34mm	Ø8.0mm	162mm	
P8240-30-3	0-30mm/0-1.2"	0.003mm	17.5	34mm	Ø6.5mm	159mm	Spherical tip
P8240-30-4	0-30mm/0-1.2"	0.003mm	20.5	34mm	Ø8.0mm	162mm	

DIGITAL MICROMETER HEAD IP54

FEATURES:

- Resolution:0.001mm/0.00005"
- Buttons:on/off, data set, mm/inch, ABS/INC
- IP54 protection
- SR44 battery, auto power off
- Ratchet friction thimble
- RS232 output
- Packed in plastic box
- Connecting data cable(optional)



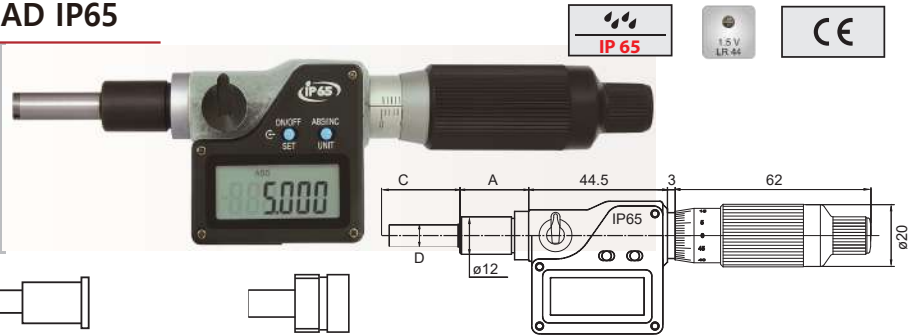
unit:mm

Model No.	Range	Accuracy	A	D	L	Remarks
P8241-25-1	0-25mm/0-1"	0.003mm	17.5	Ø6.5mm	144mm	Flat & Carbide tip
P8241-25-2	0-25mm/0-1"	0.003mm	17.5	Ø6.5mm	144mm	Spherical tip
P8241-25-3	0-25mm/0-1"	0.003mm	20.5	Ø8.0mm	147mm	Flat & Carbide tip
P8241-25-4	0-25mm/0-1"	0.003mm	20.5	Ø8.0mm	147mm	Spherical tip

DIGITAL MICROMETER HEAD IP65

FEATURES:

- FYUX]b["\$\$\$%a a `cf "\$\$\$\$)
- Ð*) `k UH/dfccZ`Yj Y) `a a
- @Uf[Y`X]gd`Umik]h`CB`#: : z56G#B7z
- I B`H`UbX`G9H`Vl`Hfcb
- K]h`fUH`W`Yh
- G`Ub`_%&`\+
- K]h`XUH`U`ci`hdi`h`



unit:mm

Flat & Carbide tip , plain

Spherical tip,plain

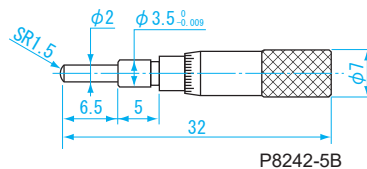
Flat & Carbide,clamp nut

Model No.	Range mm/in	Accuracy mm	A	C	D	Remarks
P8240-25A	0-25mm/0-1"	0.003mm	17.5	28.5mm	Ø6.5mm	Flat & Carbide tip , plain
P8240-25B	0-25mm/0-1"	0.003mm	17.5	28.5mm	Ø6.5mm	Spherical tip,plain
P8240-25C	0-25mm/0-1"	0.003mm	17.5	28.5mm	Ø6.5mm	Flat & Carbide,clamp nut
P8240-25D	0-25mm/0-1"	0.003mm	17.5	28.5mm	Ø6.5mm	Spherical,clamp nut
P8240-50A	0-50mm/0-2"	0.005mm	35.5	53mm	Ø7.5mm	Flat & Carbide tip , plain
P8240-50B	0-50mm/0-2"	0.005mm	35.5	53mm	Ø7.5mm	Spherical tip,plain

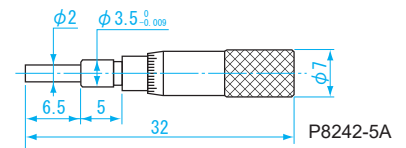
MICROMETER HEAD 0-5MM

FEATURES:

- Resolution:0.02mm
- Measuring range: 0 ~ 5mm, small and lightweight
- Spindle: High carbon chromium steel
- Thimble: Alloy tool steel



P8242-5B



P8242-5A

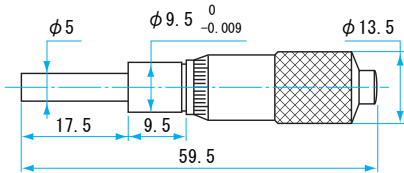
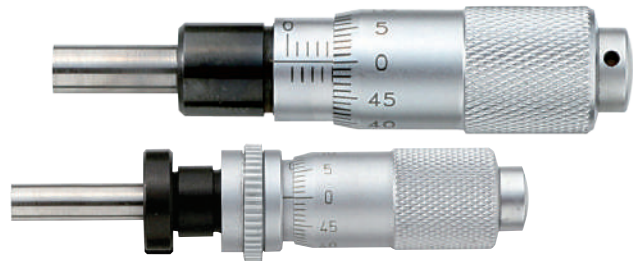
unit:mm

Model No.	Range	Accuracy	Remarks
P8242-5A	0-5mm	0.005mm	Flat tip
P8242-5B	0-5mm	0.005mm	Spherical tip

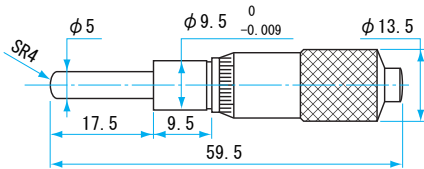
MICROMETER HEAD 0-13MM

FEATURES:

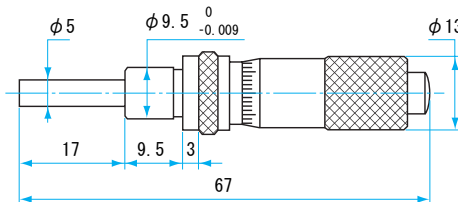
- Resolution: 0.01mm
- Measuring range: 0 ~ 13mm, small, general purpose
- Spindle: High carbon chromium steel
- Thimble: Alloy tool steel



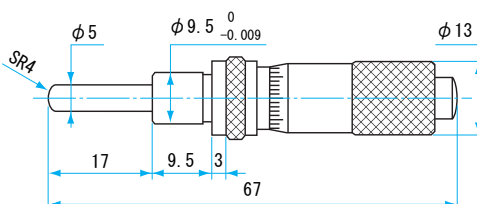
P8250-13-1



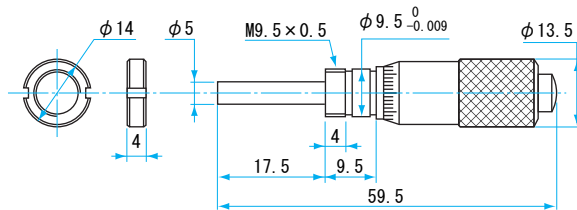
P8250-13-2



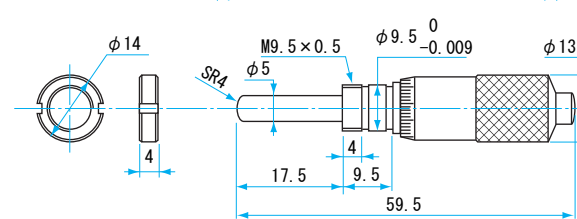
P8250-13-3



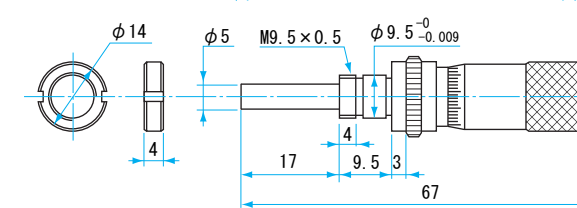
P8250-13-4



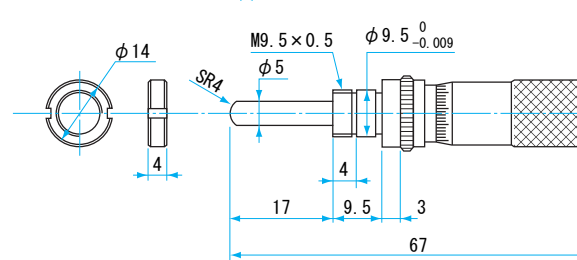
P8250-13-5



P8250-13-6



P8250-13-7



P8250-13-8

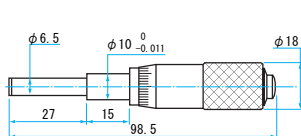
unit:mm

Model No.	Stem/ Spindle Clamp	Spindle Dimension (mm)	Stem Dimension (mm)	Nut (mm)	Spindle Face	Resolution (mm)	Accuracy (mm)	Length (mm)	Thimble Diameter (mm)	Weight
P8250-13-1	Straight	φ5×17.5		-	Flat	0.01	0.004	59.5	13.5	35g
P8250-13-2					Spherical (SR4)					
P8250-13-3					Flat					
P8250-13-4	Threaded	φ9.5×9.5		φ14×4	Spherical (SR4)	0.01	0.004	67	13	45g
P8250-13-5					Flat					
P8250-13-6					Spherical (SR4)					
P8250-13-7					Flat					
P8250-13-8	Spherical (SR4)									

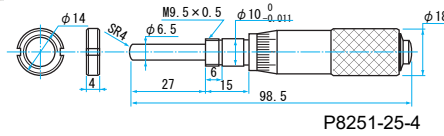
MICROMETER HEAD 0-25MM

FEATURES:

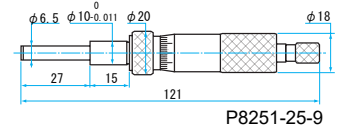
- Resolution: 0.01mm
- Measuring range: 0 ~ 25mm, small, general purpose
- Spindle: High carbon chromium steel
- Thimble: Alloy tool steel
- Carbide tipped measuring faces (exclude P8251-25-4)
- Spindle 1mm pitch (P8251-25-11, P8251-25-12)



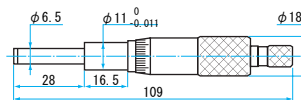
P8251-25-1



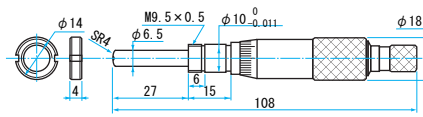
P8251-25-4



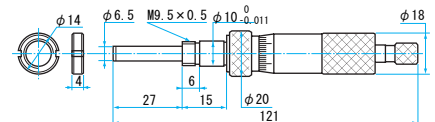
P8251-25-9



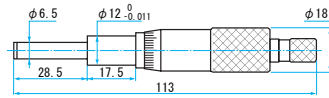
P8251-25-2



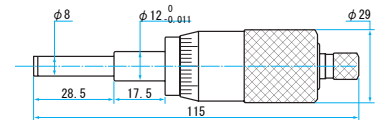
P8251-25-5



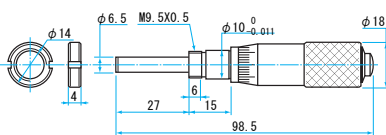
P8251-25-10



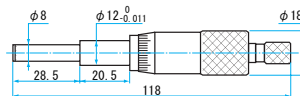
P8251-25-6



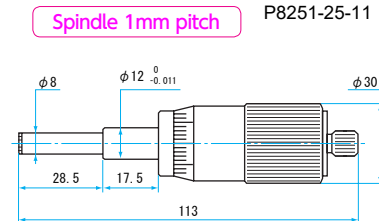
P8251-25-11



P8251-25-3

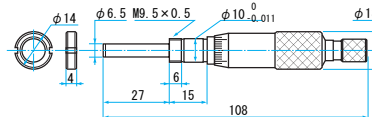


P8251-25-7



Spindle 1mm pitch

P8251-25-12



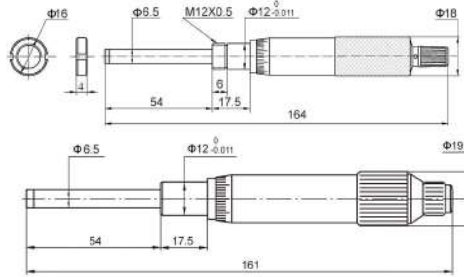
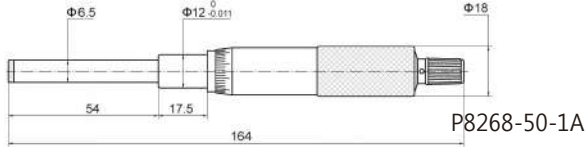
P8251-25-8

Model No.	Ratchet	Stem / Spindle Clamp	Spindle Dimension (mm)	Stem Dimension (mm)	Nut (mm)	Spindle Face	Resolution (mm)	Accuracy (mm)	Length (mm)	Thimble Diameter (mm)	Weight																			
P8251-25-1	None	Straight	φ6.5×27	φ10×15	—	Spherical (SR4)	0.01	3	98.5	18	90g																			
P8251-25-2	Yes		φ6.5×28	φ11×16.5	—				Flat			109																		
P8251-25-3	None	Threaded	φ6.5×27	φ10×15	φ14×4	0.01			3			98.5	18	95g																
P8251-25-4	None		φ6.5×27	φ10×15	φ14×4							Spherical (SR4)			108															
P8251-25-5	None	Straight	φ6.5×28.5	φ12×17.5	—							0.01			3	113	18	100g												
P8251-25-6	None		φ6.5×28.5	φ12×17.5	—											Flat			113											
P8251-25-7	None	Threaded	φ8×28.5	φ12×20.5	—											0.01			3	118	29	110g								
P8251-25-8	None		φ8×28.5	φ12×20.5	—															Spherical (SR4)			118							
P8251-25-9	Yes	Straight / with Clamp	φ6.5×27	φ10×15	—															0.01			3	108	18	95g				
P8251-25-10	Yes		φ6.5×27	φ10×15	—																			Flat			121			
P8251-25-11	None	Threaded / with Clamp	φ6.5×27	φ10×15	φ14×4																			0.01			3	115	29	230g
P8251-25-12	None		φ6.5×27	φ10×15	φ14×4																							Spherical (SR4)			113
P8251-25-11	None	Straight	φ8×28.5	φ12×17.5	—		0.01	4		115	30																	200g		
P8251-25-12	None		φ8×28.5	φ12×17.5	—					Flat																					113

MICROMETER HEAD 0-50MM

FEATURES:

- Graduation:metric 0.01mm,inch 0.001"(Model A)
- Graduation:metric 0.001mm,inch 0.0001"(Model B)
- Carbided tips
- Ratchet stop
- Packed in plastic box



P8268-50-3B

P8268-50-3A

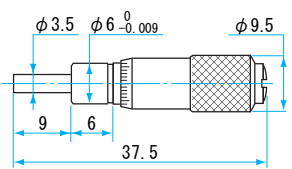
unit:mm

Model No.	Range mm/in	Accuracy mm	Remarks	
P8268-50-1A	0-50mm	0.005mm		Ratchet stop
P8268-50-2A	0-50mm	0.005mm		Ratchet stop
P8268-50-3A	0-50mm	0.005mm		Friction thimble
P8268-50-4A	0-50mm	0.005mm		Friction thimble
P8268-50-1B	0-50mm	0.005mm		Ratchet friction thimble
P8268-50-2B	0-50mm	0.005mm		Ratchet friction thimble
P8268-50-3B	0-50mm	0.005mm		Ratchet stop
P8268-50-4B	0-50mm	0.005mm		Ratchet stop

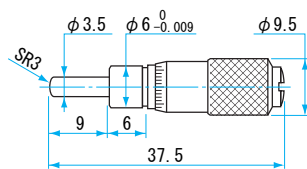
MICROMETER HEAD 0-6.5MM

FEATURES:

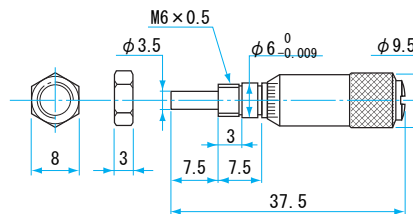
- Resolution:0.01mm
- Measuring range: 0 ~ 6.5mm, small and lightweight
- Spindle: High carbon chromium steel
- Thimble: Alloy tool steel



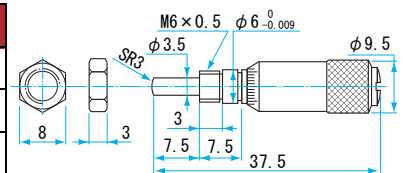
P8242-6.5-1



P8242-6.5-2



P8242-6.5-3



P8242-6.5-4

Model No.	Range	Accuracy	Remarks
P8249-6.5-1	0-6.5mm	0.005mm	Flat tip
P8249-6.5-2	0-6.5mm	0.005mm	Spherical tip
P8249-6.5-3	0-6.5mm	0.005mm	Flat tip, clamp nut
P8249-6.5-4	0-6.5mm	0.005mm	Spherical tip, clamp nut

MICROMETER STAND

FEATURES:

- Designed to allow bench-top using with micrometer or other gages which have frame area sufficient to be hold
- Used for 0-4"/0-100mm micrometer

Model	Specification	Weight
P8326	Cast	1.2kg



MICROMETER STAND

FEATURES:

- Clamp range:outside micrometer 100mm
- Clamp opening:5-15mm

Model	Specification	Weight
P8332	Painted frame	1.2kg



DIGITAL MICROMETER IP54

FEATURES:

- Incremental capacitive measurement system
- 3V Lithium battery CR2032
- SPC data output (To built in wireless transmission model, the SPC output port is unavailable)
- Built in wireless transmission
- Carbide measurement surface



Unit: mm

Model No.	Range mm/in	Resolution	Accuracy
P8270-25W	0-25mm/0-1"	0.001mm/0.00005"	0.003mm/0.00015"
P8270-50W	25-50mm/1-2"	0.001mm/0.00005"	0.003mm/0.00015"
P8270-75W	50-75mm/2-3"	0.001mm/0.00005"	0.004mm/0.00015"
P8270-100W	75-100mm/3-4"	0.001mm/0.00005"	0.004mm/0.00015"
P8270-125W	100-125mm/4-5"	0.001mm/0.00005"	0.005mm/0.0002"
P8270-150W	125-150mm/5-6"	0.001mm/0.00005"	0.005mm/0.0002"
P8270-175W	150-175mm/6-7"	0.001mm/0.00005"	0.006mm/0.00024"
P8270-200W	175mm-200mm/7-8"	0.001mm/0.00005"	0.006mm/0.00024"
P8270-225W	200-225mm/8-9"	0.001mm/0.00005"	0.007mm/0.00028"
P8270-250W	225-250mm/9-10"	0.001mm/0.00005"	0.007mm/0.00028"
P8270-275W	250-275mm/10-11"	0.001mm/0.00005"	0.008mm/0.00032"
P8270-300W	275-300mm/11-12"	0.001mm/0.00005"	0.008mm/0.00032"

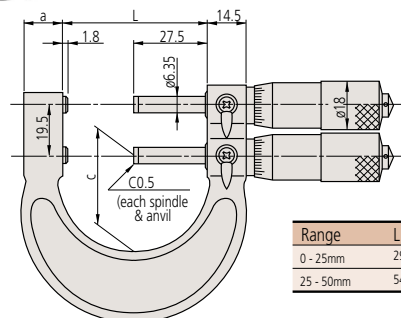
LIMIT MICROMETER

FEATURES:

- Resolution: metric 0.002mm / 0.0001" inch
- Can be used a GO/NG as gage by setting the upper and lower limits
- Carbide measuring faces, painted frame
- Packed in plastic box



Model No.	Range mm/in	Accuracy mm
P8271-25	0-25mm	0.003mm
P8271-50	25-50mm	0.003mm
P8271-1	0-1"	0.00012"
P8271-2	1-2"	0.00012"



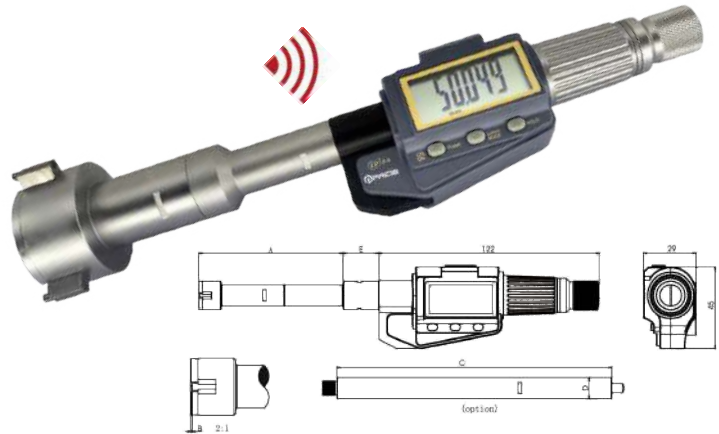
Range	L	a	c
0 - 25mm	29.3	15	23
25 - 50mm	54.3	15	37

DIGITAL THREE POINT INTERNAL MICROMETER IP54



FEATURES:

- 3V Lithium battery CR2032, battery life > 1 year
- SPC data output (To built in wireless transmission model, the SPC output port is unavailable)
- Ratchet stop
- Measuring contact points are designed to allow measurements near the bottom of blind holes
- Measuring surface are carbide (12mm above)
- Additional extensions can be added to increase the measuring depth
- **Setting rings for origin point setting (optional)**
- **Built in wireless data transmission**



Unit: mm

Model No.	Range mm/in	Accuracy mm	Ring gauge	Extension rod C	A (mm)	B (mm)	C (mm)
P8212-8W	6-8mm/0.275-0.35"	0.004/0.00015"	φ8mm	101.6mm/4"	55	1	φ5.8
P8212-10W	8-10mm/0.35-0.425"	0.004/0.00015"	φ8mm	101.6mm/4"	55	1.5	φ5.8
P8212-12W	10-12mm/0.425-0.5"	0.004/0.00015"	φ12mm	101.6mm/4"	55	1.5	φ5.8
P8212-16W	12-16mm/0.5-0.65"	0.004/0.00015"	φ16mm	152.4mm/6"	80	0.5	φ11.8
P8212-20W	16-20mm/0.65-0.8"	0.004/0.00015"	φ16mm	152.4mm/6"	80	0.5	φ11.8
P8212-25W	20-25mm/0.8-1.0"	0.004/0.00015"	φ25mm	152.4mm/6"	90	0.5	φ15.8
P8212-30W	25-30mm/1-1.2"	0.004/0.00015"	φ25mm	152.4mm/6"	90	0.5	φ15.8
P8212-40W	30-40mm/1.2-1.6"	0.004/0.00015"	φ40mm	152.4mm/6"	105	0.5	φ23.5
P8212-50W	40-50mm/1.6-2.0"	0.005/0.0002"	φ40mm	152.4mm/6"	105	0.5	φ23.5
P8212-63W	50-63mm/2-2.5"	0.005/0.0002"	φ62mm	152.4mm/6"	127	0.5	φ23.5
P8212-75W	62-75mm/2.5-3.0"	0.005/0.0002"	φ62mm	152.4mm/6"	127	0.5	φ23.5
P8212-88W	75-88mm/3-3.5"	0.005/0.0002"	φ87mm	152.4mm/6"	127	0.5	φ23.5
P8212-100W	87-100mm/3.5-4.0"	0.005/0.0002"	φ87mm	152.4mm/6"	127	0.5	φ23.5
P8212-125W	100-125mm/4.0-5"	0.005/0.0002"	φ125mm	152.4mm/6"	156	1	φ25.5
P8212-150W	125-150mm/5-6"	0.005/0.0002"	φ125mm	152.4mm/6"	156	1	φ25.5
P8212-175W	150-175mm/6-7"	0.005/0.0002"	φ175mm	152.4mm/6"	156	1	φ25.5
P8212-200W	175-200mm/7-8"	0.005/0.0002"	φ175mm	152.4mm/6"	156	1	φ25.5
P8212-225W	200-225mm/8-9"	0.006/0.00025"	φ225mm	152.4mm/6"	156	1	φ25.5
P8212-250W	225-250mm/9-10"	0.006/0.00025"	φ225mm	152.4mm/6"	156	1	φ25.5
P8212-275W	250-275mm/10-11.0"	0.006/0.00025"	φ275mm	152.4mm/6"	156	1	φ25.5
P8212-300W	275-300mm/11-12.0"	0.006/0.00025"	φ275mm	152.4mm/6"	156	1	φ25.5

FIBRE INSIDE TUBE MICROMETER

FEATURES:

- Graduation: metric 0.01mm
- Fibre tube $\varnothing 25, \varnothing 32$ mm
- Packed in wooden box



unit:mm

Model No	Range mm	Gradation mm	Extension rod	Standard ring	Length of rods mm
P8271-200	150-2000mm	0.01mm	25mm	$\varnothing 25$ mm	150-175 (micrometer head), 25, 50x2, 100, 200x2, 400x3
P8271-210	150-2100mm	0.01mm	25mm	$\varnothing 25$ mm	150-175 (micrometer head), 25, 50x2, 100x2, 200x2, 400x3
P8271-300	150-3000mm	0.01mm	25mm	$\varnothing 25$ mm	150-175 (micrometer head), 25, 50x2, 100, 200x2, 400x3, 1000
P8271-400	150-4000mm	0.01mm	25mm	$\varnothing 40$ mm	150-175 (micrometer head), 25, 50x2, 100, 200x2, 400x3, 1000x2
P8271-500	150-5000mm	0.01mm	25mm	$\varnothing 40$ mm	150-175 (micrometer head), 25, 50x2, 100, 200x2, 400x3, 1000x3
P8271-600	150-6000mm	0.01mm	25mm	$\varnothing 40$ mm	150-175 (micrometer head), 25, 50x2, 100, 200x2, 400x3, 1000x4
P8271-700	300-7000mm	0.01mm	50mm	$\varnothing 50$ mm	300-350 (micrometer head), 50, 100x2, 200, 400x3, 1000x5
P8271-800	300-8000mm	0.01mm	50mm	$\varnothing 50$ mm	300-350 (micrometer head), 50, 100x2, 200, 400x3, 1000x6
P8271-900	300-9000mm	0.01mm	50mm	$\varnothing 50$ mm	300-350 (micrometer head), 50, 100x2, 200, 400x3, 1000x7
P8271-1000	300-10000mm	0.01mm	50mm	$\varnothing 50$ mm	300-350 (micrometer head), 50, 100x2, 200, 400x3, 1000x8

STAND FOR INSIDE MICROMETER

FEATURES:

- Used for zero setting of inside micrometers



unit:mm

Metric		Inch		Accuracy	Parallel
Model No.	Length	Model No.	Length		
P8319-50	50mm	P8319-2	2"	± 0.002 mm	0.002mm
P8319-75	75mm	P8319-3	3"	± 0.003 mm	0.003mm
P8319-100	100mm	P8319-4	4"	± 0.004 mm	0.004mm
P8319-150	150mm	P8319-6	6"	± 0.004 mm	0.004mm
P8319-200	200mm	P8319-8	8"	± 0.004 mm	0.004mm
P8319-250	250mm	P8319-10	10"	± 0.004 mm	0.004mm
P8319-275	275mm	P8319-11	11"	± 0.004 mm	0.004mm



SETTING STANDARD FOR SCREW MICROMETER

FEATURES:

- Used for zero setting for thread micrometers
- With heat insulating handle to prevent heat expansion



unit:mm

Model No.	Size mm	Model No.	Size mm	Accuracy	Diameter
					
P8315-25	25mmx60°	P8316-25	25mmx55°	±0.0030mm	Φ7
P8315-50	50mmx x60°	P8316-50	50mmx x55°	±0.0035mm	Φ7
P8315-75	75mmx x60°	P8316-75	75mmx x55°	±0.0040mm	Φ8
P8315-100	100mmx x60°	P8316-100	100mmx x55°	±0.0045mm	Φ8
P8315-125	125mm x60°	P8316-125	125mm x55°	±0.0050mm	Φ8
P8315-150	150mm x60°	P8316-150	150mm x55°	±0.0055mm	Φ8
P8315-175	175 mm x60°	P8316-175	175 mm x55°	±0.0060mm	Φ8
P8315-200	200mm x60°	P8316-200	200mm x55°	±0.0060mm	Φ8

MICROMETER MEASURING FORCE DETECTOR

FEATURES:

- Measuring force 5-12N
- For outside micrometers 0-25mm/0-1", 5-50mm/1-2", 75mm/2-3" and 75-100mm/3-4"
- Packed in plastic box

Model No.

P8321



STANDARD FOR V-ANVIL MICROMETER

FEATURES:

- Used for zero setting for V-anvil micrometers



unit:mm

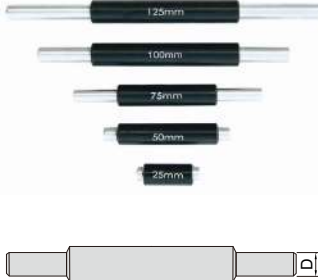
Metric		Inch		Accuracy	Cylindricity
Model No.	Size	Model No.	Size		
P8317-5	5mm	P8317-0.2	0.2"	±0.0010mm	0.00040mm
P8317-20	20mm	P8317-0.8	0.8"	±0.0015mm	0.00040mm
P8317-25	25mm	P8317-1	1"	±0.0015mm	0.00045mm
P8317-35	35mm	P8317-1.4	1.4"	±0.0020mm	0.00050mm
P8317-45	45mm	P8317-1.8	1.8"	±0.0025mm	0.00055mm
P8317-50	50mm	P8317-2	2"	±0.0025mm	0.00060mm
P8317-65	65mm	P8317-2.6	2.6"	±0.0025mm	0.00070mm
P8317-80	80mm	P8317-3.2	3.2"	±0.0030mm	0.00080mm
P8317-85	85mm	P8317-3.4	3.4"	±0.0030mm	0.00080mm

SETTING STANDARD FOR OUTSIDE MICROMETER

FEATURES:

- For calibrating zero position of outside micrometers
- With heat insulating handle to prevent heat expansion
- DIN863/1

unit:mm

Model No.	Size	Accuracy	Diameter D	Measuring faces
P8313-25	25mm	±0.0012mm	Φ7mm	<p>Flat measuring face.</p> 
P8313-50	50mm	±0.0012mm	Φ7mm	
P8313-75	75mm	±0.0015mm	Φ7mm	
P8313-100	100mm	±0.0020mm	Φ8mm	
P8313-125	125mm	±0.0025mm	Φ8mm	
P8313-150	150mm	±0.0025mm	Φ8mm	
P8313-175	175mm	±0.0025mm	Φ8mm	
P8313-200	200mm	±0.0035mm	Φ8mm	
P8313-225	225mm	±0.0035mm	Φ8mm	
P8313-250	250mm	±0.0035mm	Φ8mm	
P8313-275	275mm	±0.0040mm	Φ8mm	
P8313-300	300mm	±0.0040mm	Φ16mm		Spherical measuring face.
P8313-325	325mm	±0.0045mm	Φ16mm	
P8313-350	350mm	±0.0045mm	Φ16mm	
P8313-375	375mm	±0.0045mm	Φ16mm	
P8313-400	400mm	±0.0045mm	Φ16mm	
P8313-425	425mm	±0.0050mm	Φ16mm	
P8313-450	450mm	±0.0050mm	Φ16mm	
P8313-475	475mm	±0.0050mm	Φ16mm	
P8313-500	500mm	±0.0050mm	Φ16mm	
P8313-525	525mm	±0.0055mm	Φ16mm	
P8313-575	575mm	±0.0055mm	Φ16mm	
P8313-625	625mm	±0.0055mm	Φ16mm	
P8313-675	675mm	±0.0065mm	Φ16mm	
P8313-725	725mm	±0.0065mm	Φ16mm	
P8313-775	775mm	±0.0065mm	Φ16mm	
P8313-825	825mm	±0.0075mm	Φ16mm	
P8313-875	875mm	±0.0075mm	Φ16mm	
P8313-925	925mm	±0.0075mm	Φ16mm	
P8313-975	975mm	±0.0075mm	Φ16mm	
P8313-1050	1050mm	±0.0090mm	Φ23mm	
P8313-1150	1150mm	±0.0090mm	Φ23mm	
P8313-1250	1250mm	±0.0090mm	Φ23mm	
P8313-1350	1350mm	±0.0105mm	Φ23mm	
P8313-1450	1450mm	±0.0105mm	Φ23mm	
P8313-1550	1550mm	±0.0105mm	Φ23mm	
P8313-1650	1650mm	±0.0125mm	Φ23mm	
P8313-1750	1750mm	±0.0125mm	Φ23mm	
P8313-1850	1850mm	±0.0125mm	Φ23mm	



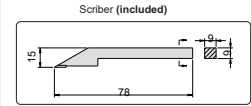
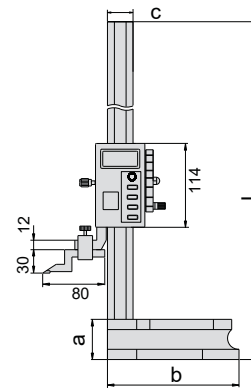
DIGITAL HEIGHT GAGE
VERNIER HEIGHT GAGE
DIAL HEIGHT GAGE
DIGITAL SCALE UNIT
DRO
LINEAR SCALE



DIGITAL HEIGHT GAUGE WITH HAND-WHEEL

FEATURES:

- With hand-wheel, smooth operation of slide carriage
- Ideal for measuring and marking work for molds, jigs, and tooling
- Metric/Inch system interchange
- ZERO can be set at any position
- ABS/INC function
- HOLD function
- Carbide tipped scriber
- Accessory arm for mounting $\Phi 8\text{mm}$ or $\Phi 6\text{mm}$ dial indicator (optional)



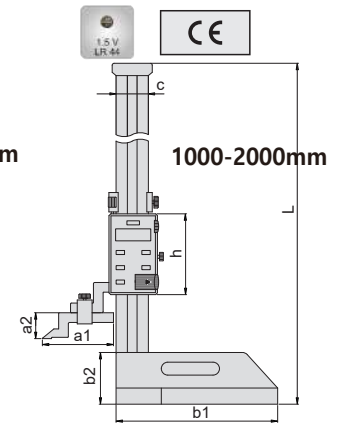
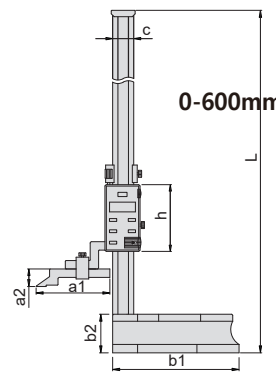
Unit: mm

Model No.	Range mm/in	Resolution mm	Accuracy mm	a	b	c	L
P6011-300A	0-300mm/0-12"	0.01mm/0.0005"	± 0.03	55	180	32	515
P6011-600A	0-600mm/0-24"	0.01mm/0.0005"	± 0.05	55	180	32	815

SINGLE DIGITAL HEIGHT GAUGE

FEATURES :

- Ideal for measuring and marking work for molds, jigs, and tooling
- Metric/Inch system interchange
- Easy to read digital display
- Origin can be set at any position
- Preset function
- TOL function for convenient inspection work
- HOLD function
- Dial Indicator mounting arm accepts $\phi 6\text{mm}$, $\phi 8\text{mm}$, and dovetail type indicators. (optional)



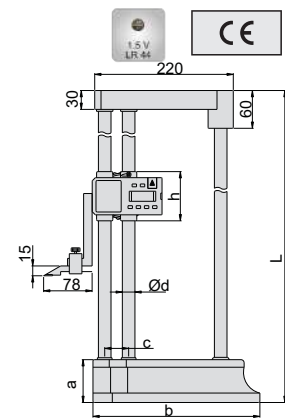
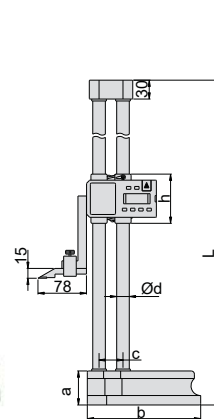
Model No.	Range mm/in	Resolution mm	Accuracy mm	a1	a2	b1	b2	d	h	L
P6010-300	0-300mm/0-12"	0.01/0.0005"	$\pm 0.04\text{mm}$	76	25	135	45	23	80	470
P6010-500	0-500mm/0-20"	0.01/0.0005"	$\pm 0.05\text{mm}$	103	25	180	55	30	95	670
P6010-600	0-600mm/0-24"	0.01/0.0005"	$\pm 0.05\text{mm}$	103	25	180	55	30	95	820
P6010-1000	0-1000mm/0-40"	0.01/0.0005"	$\pm 0.07\text{mm}$	110	39	250	80	50	125	1275
P6010-1500	0-1500mm/0-60"	0.01/0.0005"	$\pm 0.11\text{mm}$	110	39	280	80	50	125	1790
P6010-2000	0-2000mm/0-80"	0.01/0.0005"	$\pm 0.15\text{mm}$	110	39	280	80	50	125	2290

Unit: mm

DOUBLE COLUMN DIGITAL HEIGHT GAUGE

FEATURES :

- Smooth operation of slide carriage using crank wheel
- With fine adjustment
- Metric/Inch system interchange
- OFF/ON
- P-: Negative preset, P+: Positive preset
- ZERO/ABS Relative/Absolute measuring shifter
- RESET: preset/Set to zero for display
- Dial Indicator mounting arm accepts $\phi 6\text{mm}$, $\phi 8\text{mm}$, and dovetail type indicators. (optional)



Model No.	Range mm/in	Resolution mm	Accuracy mm	a	b	c	ϕd	h	L
P6013-300	0-300mm/0-12"	0.01/0.0005"	$\pm 0.04/\pm 0.0015$ "	43	135	33	15	84	475
P6013-450	0-450mm/0-18"	0.01/0.0005"	$\pm 0.05/\pm 0.002$ "	43	135	33	15	84	640
P6013-500	0-500mm/0-20"	0.01/0.0005"	$\pm 0.05/\pm 0.002$ "	54	180	38	20	88	690
P6013-600	0-600mm/0-24"	0.01/0.0005"	$\pm 0.05/\pm 0.002$ "	54	180	38	20	88	810
P6013-1000	0-1000mm/0-40"	0.01/0.0005"	$\pm 0.07/\pm 0.0028$ "	68	265	38	20	88	1230

Unit: mm

PREMIUM DOUBLE DIGITAL HEIGHT GAUGE

FEATURES:

- Smooth operation of slide carriage using crank wheel
- Metric/Inch system interchange.
0.01mm,0.002mm resolution changeable
- Large screen display,with base armrest
- Battery CR2032
- ZERO/ABS Relative/Absolute measuring shifter
- RESET: preset/Set to zero for display
- Circular arc scriber, fine adjustment, data output (optional)



Model No.	Range mm	Graduation mm	Accuracy mm
P6014-300	0-300mm/0-12"	0.01mm/ 0.0005"/0.002mm	±0.04/±0.0015 "
P6014-500	0-500mm/0-20"	0.01mm/ 0.0005"/0.002mm	±0.05/±0.002 "
P6014-600	0-600mm/0-24"	0.01mm/ 0.0005"/0.002mm	±0.05/±0.002 "

unit:mm

VERNIER HEIGHT GAUGE

FEATURES:

- Ideal for marking and measuring work for molds, jigs, and tooling
- Sliding main carriage for fast, easy adjustment
- Carbide tipped scribe
- Made of stainless steel for rust protection
- Dial Indicator mounting arm accepts $\phi 6$ mm, $\phi 8$ mm, and dovetail type indicators.(optional)



unit:mm

Model No.	Range mm	Reading mm	Model No.	Range mm	Reading mm	Accuracy mm
P6004-200	0-200mm/8"	0.02mm/0.001"	P6004-201	0-200mm	0.02mm	±0.03mm
P6004-300	0-300mm/12"	0.02mm/0.001"	P6004-301	0-300mm	0.02mm	±0.04mm
P6004-450	0-450mm/18"	0.02mm/0.001"	P6004-451	0-450mm	0.02mm	±0.05mm
P6004-500	0-500mm/20"	0.02mm/0.001"	P6004-501	0-500mm	0.02mm	±0.05mm
P6004-600	0-600mm/24"	0.02mm/0.001"	P6004-601	0-600mm	0.02mm	±0.05mm
P6004-1000	0-1000mm/40"	0.02mm/0.001"	P6004-1001	0-1000mm	0.02mm	±0.07mm
P6004-1500	0-1500mm/60"	0.02mm/0.001"	P6004-1501	0-1500mm	0.02mm	±0.11mm
P6004-2000	0-2000mm/80"	0.02mm/0.001"	P6004-2001	0-2000mm	0.02mm	±0.15mm

MINI DIAL HEIGHT GAUGE

FEATURES:

- Made of stainless steel
- Clear, crisp black graduations on the satin-chrome finish for easy reading
- Fine adjustment thumb roll for precision measurement
- Carbide-tipped scribe
- With wooden case



unit:mm

Model No.	Range mm	Graduation	Accuracy mm
P6006-150	0-150mm	0.02mm	±0.03mm
P6006-200	0-200mm	0.02mm	±0.03mm
P6006-300	0-300mm	0.02mm	±0.04mm

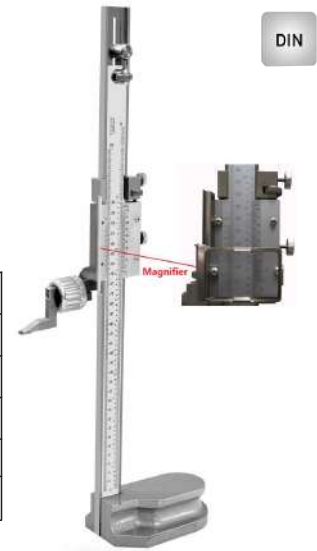
VERNIER HEIGHT GAUGE MAGNIFIER LENS

FEATURES:

- Ideal for marking and measuring work for molds, jigs, and tooling
- Move main scale to set zero
- Easy to read scale using 3X magnifying lens
- Carbide tipped scribe
- Made of stainless steel for rust protection

Model No.	Range mm	Reading mm	Accuracy mm
P6003-300	0-300mm/12"	0.02mm/0.001"	±0.04mm
P6003-450	0-450mm/18"	0.02mm/0.001"	±0.05mm
P6003-500	0-500mm/20"	0.02mm/0.001"	±0.05mm
P6003-600	0-600mm/24"	0.02mm/0.001"	±0.05mm
P6003-1000	0-1000mm/40"	0.02mm/0.001"	±0.07mm

unit:mm



DOUBLE DIAL COLUMN HEIGHT GAUGE

FEATURES:

- Made of stainless steel
- Easy and error-free reading with both up and down digital counters
- The counters and dial can be zero set at any scriber position
- Double-column structure ensures high measuring accuracy
- With hand wheel for easy head displacement
- Carbide-tipped scriber

Model No.	Range mm/in	Graduation mm	Accuracy
P6008-300	0-300mm	0.01mm	±0.04mm
P6008-450	0-450mm	0.01mm	±0.05mm
P6008-500	0-500mm	0.01mm	±0.05mm
P6008-600	0-600mm	0.01mm	±0.05mm
P6008-1000	0-1000mm	0.01mm	±0.07mm
P6008-12	0-12"	0.001"	±0.0015"
P6008-18	0-18"	0.001"	±0.002"
P6008-20	0-20"	0.001"	±0.002"
P6008-24	0-24"	0.001"	±0.008"
P6008-40	0-40"	0.001"	±0.0028"

Unit: mm



IP67 DIGITAL SCALE (Horizontal type)

FEATURES :

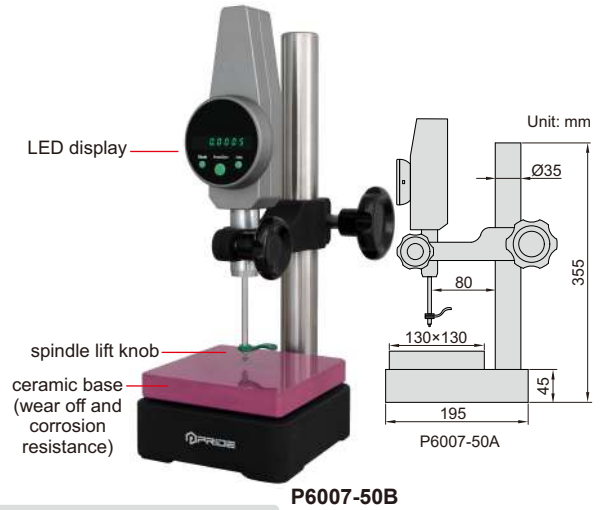
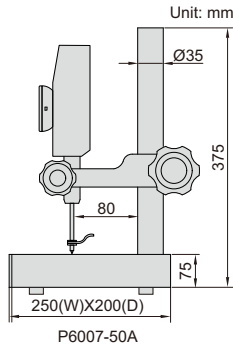
- Conform to IP67 Level and can be Used in cutting liquid conditions
- Relative/absolute measurement interchange at any position
- With on-off power button, automatic power off



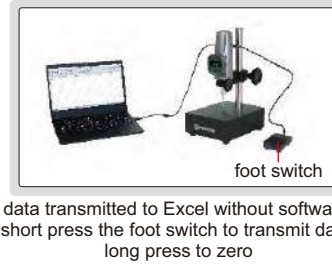
unit:mm

Model No.	Range mm/in	Accuracy mm
P1069-100	0-100mm/4"	0.01mm/0.0005"
P1069-150	0-150mm/6"	0.01mm/0.0005"
P1069-200	0-200mm/8"	0.01mm/0.0005"
P1069-300	0-300mm/12"	0.01mm/0.0005"
P1069-400	0-400mm/16"	0.01mm/0.0005"
P1069-500	0-500mm/20"	0.01mm/0.0005"
P1069-600	0-600mm/24"	0.01mm/0.0005"

DIGITAL HEIGHT GAGES



- Buttons: on/off, zero, mm/inch, mix/min/mix-min
- High response speed (5000mm/s)
- High brightness LED display



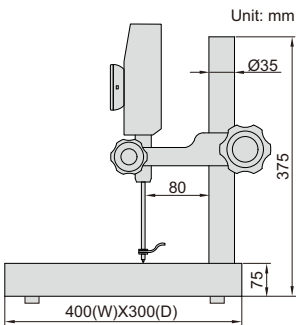
Model No.	Range	Resolution	Accuracy (20°C)	Measuring force	Output	Power supply	Base
P6007-50A	0~50mm	1µm/0.00005"	3µm	0.8~1.2N	USB	5V/1A (adapter or charge pal)	granite (flatness: 2µm)
P6007-50B	0~50mm	1µm/0.00005"	3µm	0.8~1.2N	USB	5V/1A (adapter or charge pal)	ceramic (flatness: 1µm)

OPTIONAL ACCESSORY

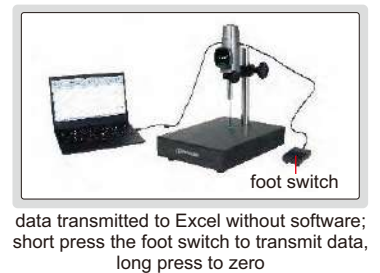
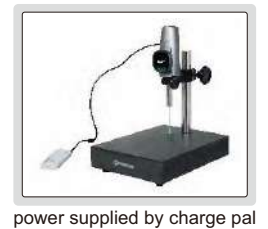
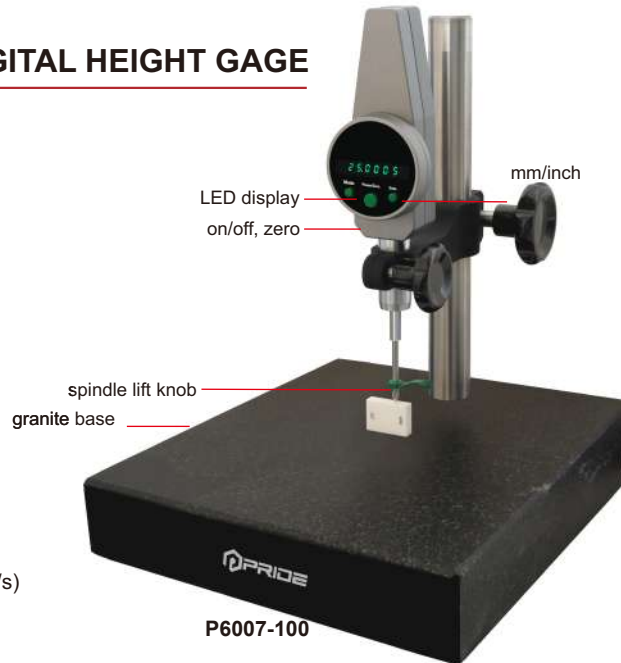
- Contact point
- Charge pal
- Data output cables (including foot switch)

- P6007-1**
- P6007-2**
- P6007-3**

LARGE RANGE DIGITAL HEIGHT GAGE



- High stability, high precision, high response speed (5000mm/s)
- High brightness LED display
- Granite base flatness: 3µm



STANDARD DELIVERY

Main unit 1 pc

OPTIONAL ACCESSORY

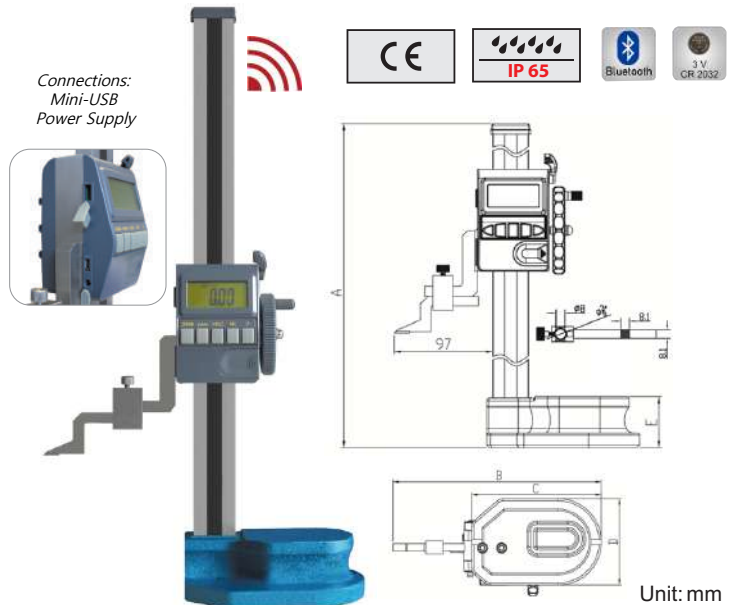
- Contact point **P6007-1**
- Charge pal **P6007-2**
- Data output cables (including foot switch) **P6007-3**

Model No.	Range	Resolution	Accuracy (20°C)	Measuring force	Output	Power supply
P6007-100	0~100mm	0.1µm/0.000005" (can switch to: 1µm/0.00005")	3µm	0.8~1.2N	USB	5V/1A (adapter or charge pal)

DIGITAL HEIGHT GAGE IP65

FEATURES:

- Protection grade IP65
- 3V Lithium battery CR2032. battery life > 1 year
- Reading mm/inch, switchable, zero-setting at any position
- On/Off switch, hold function, with „ORIGIN“ system
- Carbide tipped steel scriber, exchangeable, with racks feed
- At zero-position the drawing point coincides exactly with the base
- LCD display with clear reading, digit height 14 mm
- With built-in connector for external power supply
- With holder for clamping a dial gauge, massive Special cast iron base, lacquered
- With handwheel for quick adjustment and fine adjustment
- Built in wireless data transmission (optional). P6001-300W/600W is with wireless data.

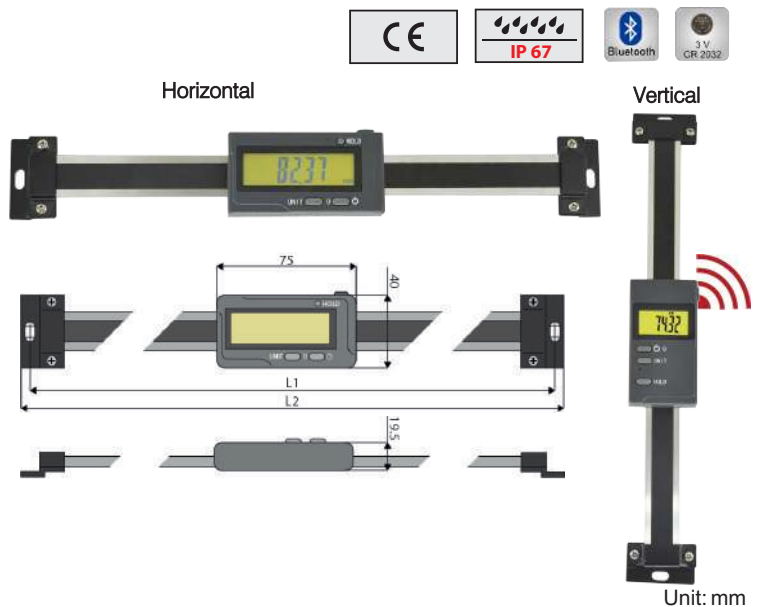
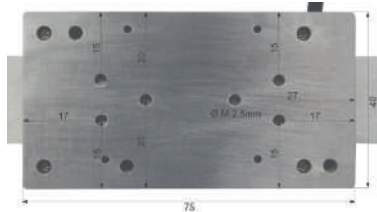


Model No.	Range mm/in	Resolution	Accuracy (Tolerance Range)	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
P6001-300	0-300mm/0-12"	0.01mm/0.0005"	0.03mm/0.001"	492	241	150	100	50
P6001-600	0-600mm/0-24"	0.01mm/0.0005"	0.05mm/0.002"	796	274	183	120	57
P6001-300W	0-300mm/0-12"	0.01mm/0.0005"	0.03mm/0.001"	492	241	150	100	50
P6001-600W	0-600mm/0-24"	0.01mm/0.0005"	0.05mm/0.002"	796	274	183	120	57
P6001-300Q	0-300mm/0-12"	0.001mm/0.00005"	0.02mm/0.0008"	492	241	150	100	50
P6001-600Q	0-600mm/0-24"	0.001mm/0.00005"	0.04mm/0.0015"	796	274	183	120	57

DIGITAL SCALE UNIT IP67

FEATURES:

- Protection grade IP67.
- Large LCD display with clear reading, digit height 10mm
- Flexible application, in horizontal and vertical position
- On/Off switch, data hold function, Zero setting at any position, Unit switchable in mm/inch
- Incl. 1x 3 V battery (type CR2032)
- Built in wireless transmission (optional), E.g P1070-150HW is wireless data.



Model No. Horizontal type	Model No. Vertical type	Range mm/in	Resolution	Accuracy
P1070-150H	P1070-150V	0-150mm/0-6"	0.01mm/0.0005"	0.02mm/0.01"
P1070-200H	P1070-200V	0-200mm/0-8"	0.01mm/0.0005"	0.03mm/0.0015"
P1070-300H	P1070-300V	0-300mm/0-12"	0.01mm/0.0005"	0.03mm/0.0015"
P1070-500H	P1070-500V	0-500mm/0-20"	0.01mm/0.0005"	0.05mm/0.002"
P1070-1000H	P1070-1000V	0-1000mm/0-40"	0.01mm/0.0005"	0.06mm/0.0025"

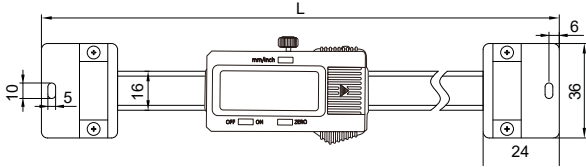
DIGITAL SCALE (Horizontal type)

FEATURES:

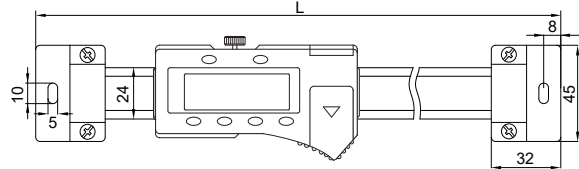
- Manual power on/off
- Zero setting at any position
- Metric/Inch system conversion at any position
- With data output interface
- Supplied with bracket to be mounted on the back



Type A



Type B



Model No.	Range	Type	Accuracy	L
P1067-100A	100 mm	A	±0.02mm	215
P1067-150A	150mm	A	±0.03mm	265
P1067-200A	200mm	A	±0.03mm	315
P1067-300A	300mm	A	±0.04mm	445
P1067-400B	400mm	B	±0.05mm	590

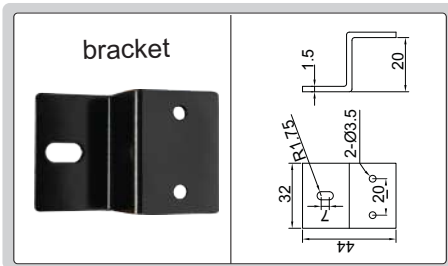
Model No.	Range	Type	Accuracy	L
P1067-500B	500 mm	B	±0.05mm	690
P1067-600B	600mm	B	±0.05mm	790
P1067-800B	800mm	B	±0.07mm	990
P1067-1000B	1000mm	B	±0.07mm	1190
P1067-1500B	1500mm	B	±0.10mm	1700

Unit: mm

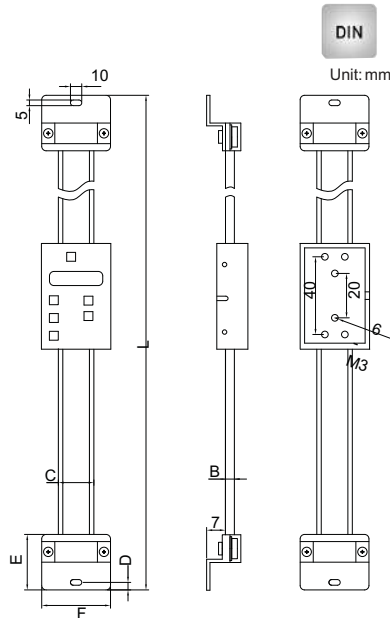
DIGITAL SCALE (Vertical type)

FEATURES :

- Manual power on/off, 0.01mm/0.0005"
- Zero setting at any position
- Metric/Inch system conversion at any position
- With data output interface
- With data presetting function
- Absolute measurement and comparison measurement conversion at any position
- Supplied with bracket to be mounted on the back



Unit: mm



Unit: mm



Unit: mm

Model No.	Range	Accuracy	B	C	D	E	F	L
P1068-100	100mm	±0.02mm	4	20	6	40	24	245
P1068-150	150mm	±0.03mm	4	20	6	40	24	296
P1068-200	200mm	±0.03mm	4	20	6	40	24	345
P1068-300	300mm	±0.04mm	4	20	6	40	24	445
P1068-400	400mm	±0.05mm	4	20	6	40	24	545
P1068-500	500mm	±0.05mm	5.5	24	8	45	32	685
P1068-600	600mm	±0.05mm	5.5	24	8	45	32	785
P1068-800	800mm	±0.07mm	5.5	24	8	45	32	985
P1068-1000	1000mm	±0.07mm	10.5	31	10	60	40	1240
P1068-1200	1200mm	±0.08mm	10.5	31	10	60	40	1440
P1068-1500	1500mm	±0.10mm	10.5	31	10	60	40	1740
P1068-2000	2000mm	±0.12mm	10.5	31	10	60	40	2250

MULTI-FUNCTIONAL MACHINE TOOL DRO

Multi-functional DRO, matched with the linear scale, can be widely used for various machine tool equipment's, e. g., milling machine, boring machine, lathe, grinder, injector, orifice machine, linear cutter, spark machine, etc.

It can provide interface cards and signal converters matched with the computer and 12V and 24V signal converting boxes matched with machine tools and PLC cabinets.

And various special DRO can be designed according to the user's requests.

Metal case DRO series



DROIII-2V



DROIII-3V



DROIII-3E



DROII-1G

Plastic case XH series



XH-2V



XH-3V

DS series



DS-300

Technical Parameters

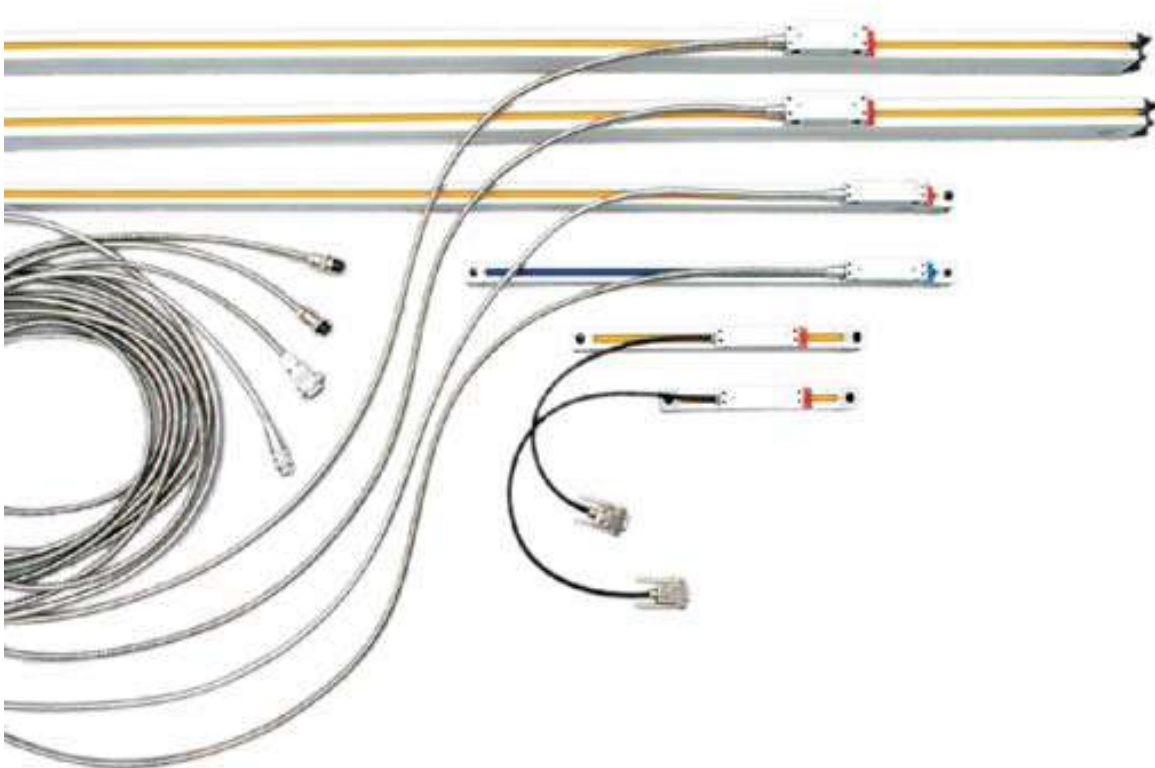
Input Voltage&HZ	AC 80V~ 260V, 50HZ~60HZ
Power consumption	15VA
Number axes	One Two and Three
Display	7 digit display with plus/minus sign and decimal point together with information
Input signal	TTL or RS422
Input signal Hz	≤1MHZ
Resolution	10um 5um 2um 1um 0.5um
Operating keyboard	Pressure sensitive key pad
linear scasle	Pith is 0.02mm, supply power is +5V. Output is two TTL waves with difference of 90° (with zero signal)and current is 50mA(Precision with ±1 μm、±5 μm、±10 μm

Model No.	DROIII-2V/DROIII-3V	XH-2V/XH-3V	DS-300	DROIII-3E	DROII-1G
Resolution	0.1 μm、0.2 μm、0.5 μm、1 μm、2 μm、5 μm、10 μm、20 μm、50 μm				
MM/INC	●	●	●	●	●
Cleaning Key	●	●	●	●	●
Midsplit	●	●	●	●	●
500-group coordinate	●	●	●	●	
Linear scle	●	●	●		●
Arc processing	●	●	●		
inclined cessing	●	●	●		
Bevel drilling	●	●	●	●	
Circular hole Division	●	●	●	●	
Rectangular drilling			●		
Taper measurement	●	●	●		
Calculator function	●	●	●	●	●
Digital filter	●	●	●	●	
EDM output				●	
EDM Depth compensation				●	
Radius / diameter conversion	●	●	●	●	
Linear correction	●	●	●	●	●
Section correction			●		
RS232	Option	Option	Option		Option

AI @H: I B7 HCB5 @A57 < B9 'HCC @@B95 F 'G7 5 @G

The enclosed linear scale is mainly used for position-locating measurement of machine tool equipment, e.g.:

- ◇Milling machine
- ◇Drilling machine
- ◇Lathe machine
- ◇Grinding machine
- ◇Processing center
- ◇Electrospark processing Grinding machine tool
- ◇Injection molding machine



TECHNICAL SPECIFICATION OF CLOSED TYPE LINEAR SCALES

Model	PF/PL 1um	PF/PL 5um	PS 1um	PS 5um	LS 1um	LS 5um	PG 5um
Optical grating pitch	20um(0.020mm), 10um(0.010mm)						
Optical grating measurement system	Transmission infrared optical measurement system, infrared wave length: 880nm						
Numerical reading head rolling system	Vertical five bearing roller system				45° five bearing roller system		
Resolution	1um	5um	1um	5um	1um	5um	5um
Effective range	50~600mm 50~400mm (FS type)		50~1000mm		50~3000mm		3000~6000mm
Repeatability accuracy	± 1um	± 5um	± 1um	± 5um	± 1um	± 5um	± 40um
Maximum working speed	20m/min(1um) 、 60m/min(5um)						
Output signal	TTL, RS422, ~1Vpp						
Power supply	5V ± 5%DC						
Environment	Temperature: -10~45°C, Humidity ≤ 90%						

PF Serial Technical data

Model	Resolution	Effective range	Maximum working speed	Accuracy	
				Standard	High-precision
PF 1um	1um	50 ~ 400mm	20m/min	± 5um	± 3um
PF 5um	5um	50 ~ 400mm	60m/min	± 5um	± 3um

PL Serial Technical data

Model	Resolution	Effective range	Maximum working speed	Accuracy			
				50~500mm		510~600mm	
				Standard	High-precision	Standard	High-precision
PL 1um	1um	50~600mm	20m/min	± 5um	± 3um	± 8um	± 5um
PL 5um	5um	50~600mm	60m/min	± 5um	± 3um	± 8um	± 5um

PS Serial Technical data

Model	Resolution	Effective range	Maximum working speed	Accuracy			
				50~500mm		510~1000mm	
				Standard	High-precision	Standard	High-precision
PS 1um	1um	50 ~ 1000mm	20m/min	± 5um	± 3um	± 8um	± 5um
PS 5um	5um	50 ~ 1000mm	60m/min	± 5um	± 3um	± 8um	± 5um

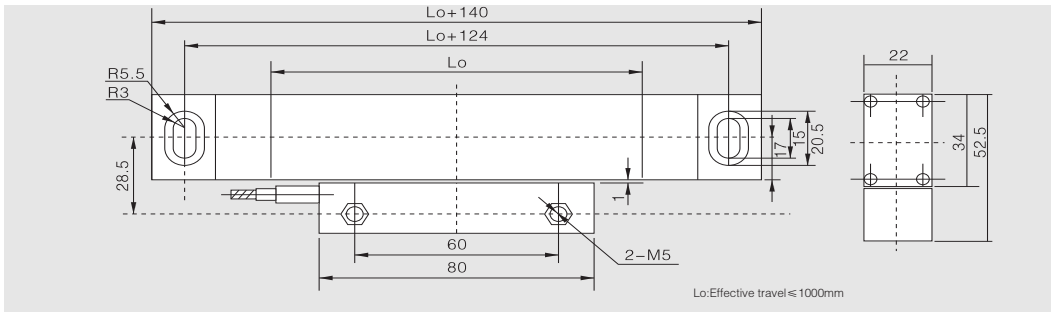
LS Serial Technical data

Model	Resolution	Effective range	Maximum working speed	Accuracy							
				50~500mm		510~1000mm		1010~2000mm		2010~3100mm	
				Standard	High-precision	Standard	High-precision	Standard	High-precision	Standard	High-precision
LS 1um	1um	50 ~ 3100mm	20m/min	± 5um	± 3um	± 8um	± 5um	± 30um	± 20um	± 50um	± 34um
LS 5um	5um	50 ~ 3100mm	60m/min	± 5um	± 3um	± 8um	± 5um	± 30um	± 20um	± 50um	± 34um

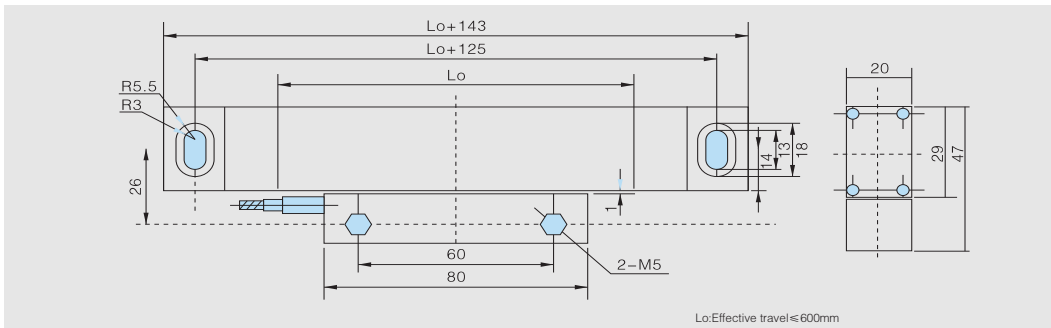
PG Serial Technical data

Model	Resolution	Effective range	Maximum working speed	Accuracy					
				3100~4000mm		4010~5000mm		5010~6000mm	
				Standard	High-precision	Standard	High-precision	Standard	High-precision
PG 5um	5um	3100 ~ 6000mm	60m/min	± 80um	± 70um	± 100um	± 80um	± 120um	± 80um

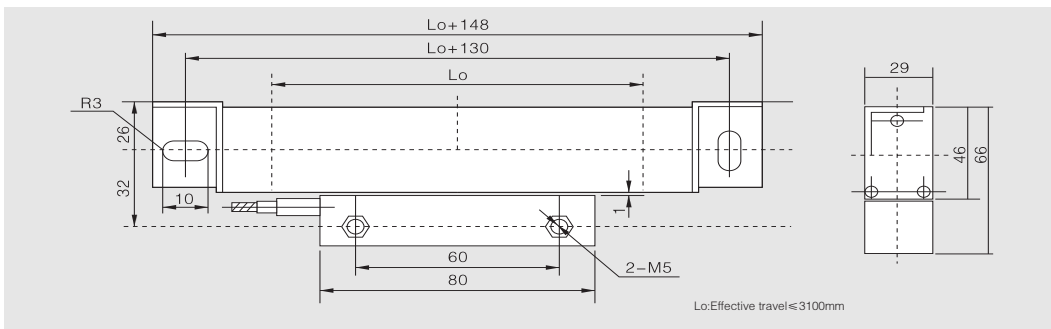
PS Serial Mounting size



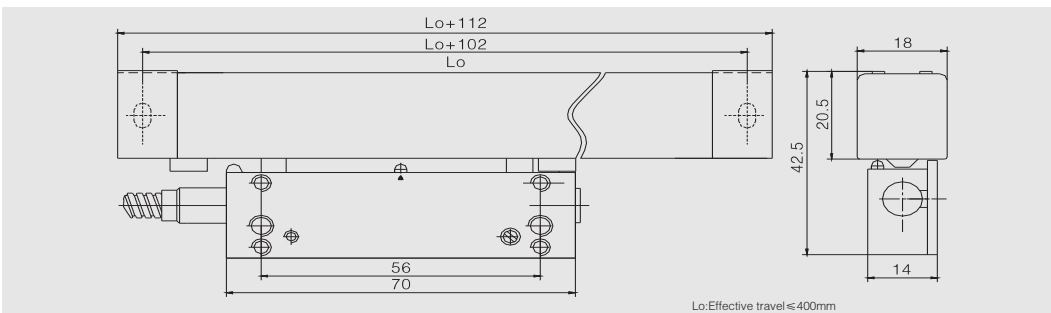
PL Serial Mounting size



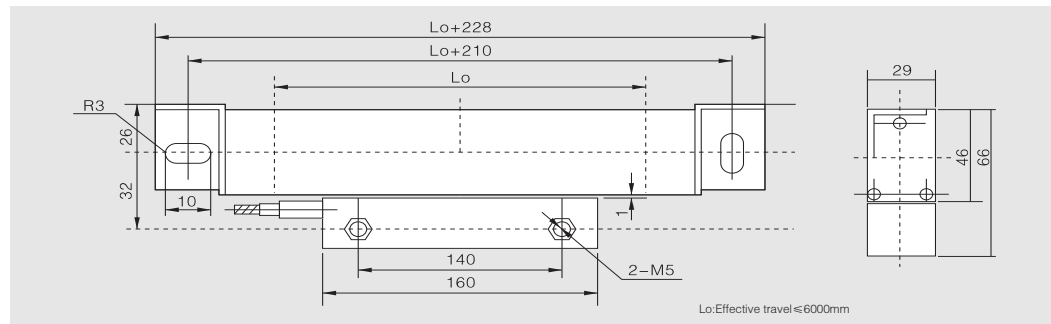
LS Serial Mounting size



PF Serial Mounting size



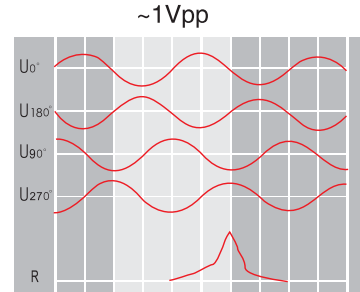
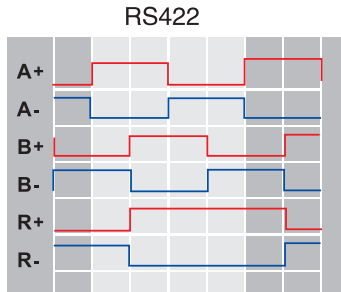
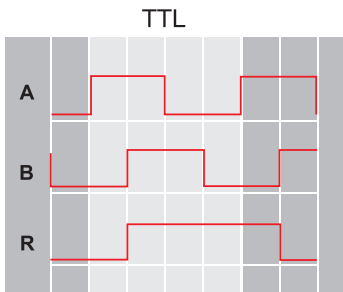
PG Serial Mounting size



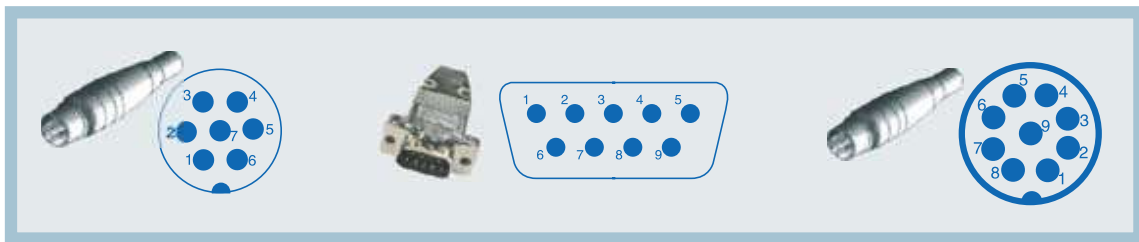
Models:

Size mm	Model No.	Resolution mm	Model No.	Resolution mm
50mm	PS5-50	0.005mm	PS1-50	0.001mm
100mm	PS5-100	0.005mm	PS1-100	0.001mm
150mm	PS5-150	0.005mm	PS1-150	0.001mm
200mm	PS5-200	0.005mm	PS1-200	0.001mm
250mm	PS5-250	0.005mm	PS1-250	0.001mm
300mm	PS5-300	0.005mm	PS1-300	0.001mm
350mm	PS5-350	0.005mm	PS1-350	0.001mm
400mm	PS5-400	0.005mm	PS1-400	0.001mm
450mm	PS5-450	0.005mm	PS1-450	0.001mm
500mm	PS5-500	0.005mm	PS1-500	0.001mm
550mm	PS5-550	0.005mm	PS1-550	0.001mm
600mm	PS5-600	0.005mm	PS1-600	0.001mm
650mm	PS5-650	0.005mm	PS1-650	0.001mm
700mm	PS5-700	0.005mm	PS1-700	0.001mm
750mm	PS5-750	0.005mm	PS1-750	0.001mm
800mm	PS5-800	0.005mm	PS1-800	0.001mm
900mm	PS5-900	0.005mm	PS1-900	0.001mm
1000mm	PS5-1000	0.005mm	PS1-1000	0.001mm
1100mm	PS5-1100	0.005mm	PS1-1100	0.001mm
1200mm	PS5-1200	0.005mm	PS5-1200	0.001mm
1300mm	LS5-1300	0.005mm		
1400mm	LS5-1400	0.005mm		
1500mm	LS5-1500	0.005mm		
1600mm	LS5-1600	0.005mm		
1700mm	LS5-1700	0.005mm		
1800mm	LS5-1800	0.005mm		
1900mm	LS5-1900	0.005mm		
2000mm	LS5-2000	0.005mm		
2100mm	LS5-2100	0.005mm		
2200mm	LS5-2200	0.005mm		
2300mm	LS5-2300	0.005mm		
2400mm	LS5-2400	0.005mm		
2500mm	LS5-2500	0.005mm		
2600mm	LS5-2600	0.005mm		
2700mm	LS5-2700	0.005mm		
2800mm	LS5-2800	0.005mm		
2900mm	LS5-2900	0.005mm		
3000mm	LS5-3000	0.005mm		
3100mm	LS5-3100	0.005mm		

OUTPUT SIGNAL TYPES



PLUG TYPES



DIN7

D-Sub9

DIN9

Pin Number	Signal
1	0V
2	NC
3	A
4	B
5	+5V
6	R
7	GND(shield)

TTL Plug Diagram

Pin Number	Signal	
	EIA-422	TTL
1	A-	NC
2	0V	0V
3	B-	NC
4	GND	GND(shield)
5	R-	NC
6	A+	A+
7	+5V	+5V
8	B+	B+
9	R+	R+

RS422/TTL Plug Diagram

Pin Number	Signal
1	0°
2	0V
3	+5V
4	270°
5	NC
6	180°
7	GND(shield)
8	90°
9	R*

~1Vpp Plug Diagram



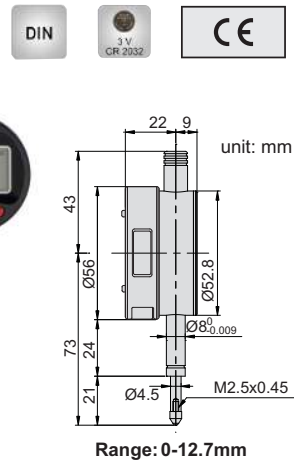
*DIGITAL INDICATOR
DIAL INDICATOR
DIAL COMPARATOR
CRANK SHANK DIAL INDICATOR
Z-AXIS SETTER
COAXIAL CENTERING INDICATOR
3D TASTER
DIGITAL DEPTH GAGE
DIAL DEPTH GAGE
ARC DIGITAL RADIUS GAGE
GAGE ACCESSORY
DIGITAL TEST INDICATOR
DIAL TEST INDICATOR
ID BORE GAGE
DIGITAL BORE GAGE
DIAL BORE GAGE
API GAGE
THICKNESS GAGE
INSIDE & OUTSIDE CALIPER GAGE
SAW SETTING DIAL GAGE
STOPWATCH
STYLUS & ACCESSORIES
LVDT PROBE
INDUCTIVE DIGITAL COMPARATOR*

DIGITAL INDICATOR

FEATURES:

- Relative and absolute measurement
- Buttons: mm/inch, ABS, zero
- Auto power off
- Lug back (flat back is optional)
- CR2032 battery
- RS232 data output
- SPC cable and software optional
- Packed in plastic box

Model No.	Range mm/in	Resolution mm/in	Accuracy
P5003-12A	0-12.7mm/0-0.5"	0.01mm/0.0005"	20µm
P5003-25A	0-25mm/0-1"	0.01mm/0.0005"	20µm
P5003-30A	0-30mm/0-1.2"	0.01mm/0.0005"	20µm
P5003-50A	0-50mm/0-2"	0.01mm/0.0005"	20µm
P5003-100A	0-100mm/0-4"	0.01mm/0.0005"	20µm
P5003-150A	0-150mm/0-6"	0.01mm/0.0005"	20µm

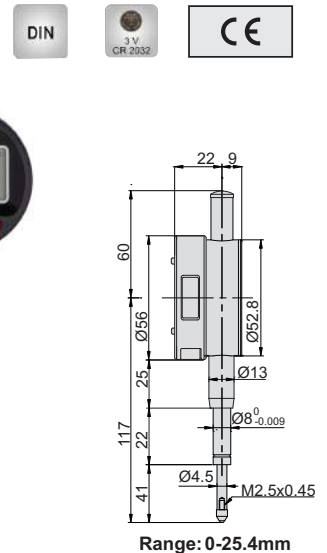


MULTI-DIGITAL INDICATOR

FEATURES:

- Relative and absolute measurement
- Buttons: TOL(tolerance Go and No Go display, data preset, measuring direction change), MAX/MIN, mm/inch, ABS, zero
- Auto power off
- Lug back (flat back is optional)
- CR2032 battery
- RS232 data output
- SPC cable and software optional
- Packed in plastic box

Model No.	Range mm/in	Resolution mm/in	Accuracy
P5003-12B	0-12.7mm/0-0.5"	0.01mm/0.0005"	20µm
P5003-25B	0-25mm/0-1"	0.01mm/0.0005"	20µm
P5003-30B	0-30mm/0-1.2"	0.01mm/0.0005"	20µm
P5003-50B	0-50mm/0-2"	0.01mm/0.0005"	20µm

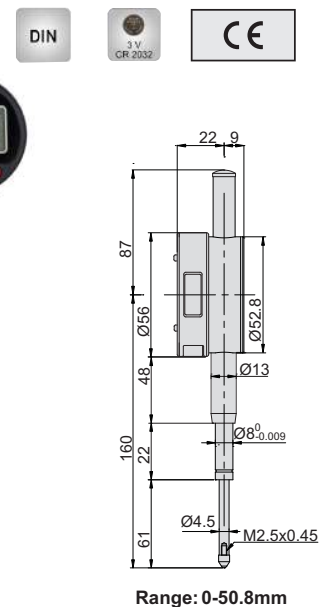


MICRON DIGITAL INDICATOR

FEATURES:

- Relative and absolute measurement
- Buttons: mm/inch, ABS, zero
- Auto power off
- Lug back (flat back is optional)
- CR2032 battery
- RS232 data output
- SPC cable and software optional
- Packed in plastic box

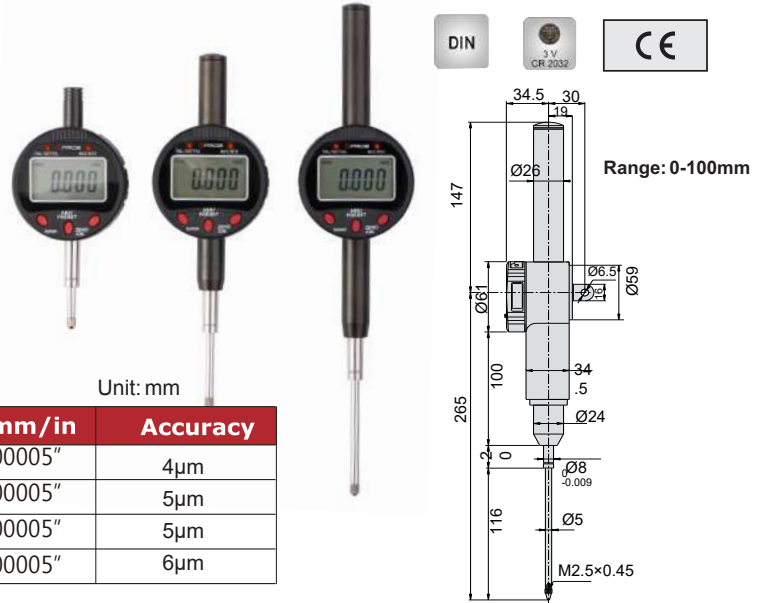
Model No.	Range mm/in	Resolution mm/in	Accuracy
P5004-12A	0-12.7mm/0-0.5"	0.001mm/0.00005"	4µm
P5004-25A	0-25mm/0-1"	0.001mm/0.00005"	5µm
P5004-30A	0-30mm/0-1.2"	0.001mm/0.00005"	5µm
P5004-50A	0-50mm/0-2"	0.001mm/0.00005"	6µm
P5004-100A	0-100mm/0-4"	0.001mm/0.00005"	10µm
P5004-150A	0-150mm/0-6"	0.001mm/0.00005"	13µm



MULTI-MICRON DIGITAL INDICATOR

FEATURES:

- Relative and absolute measurement
- Buttons: TOL(tolerance Go and No Go display,data preset,measuring direction change),MAX/MIN,mm/inch, ABS, zero
- Auto power off
- Lug back (flat back is optional)
- CR2032 battery
- RS232 data output
- SPC cable and software optional
- Packed in plastic box

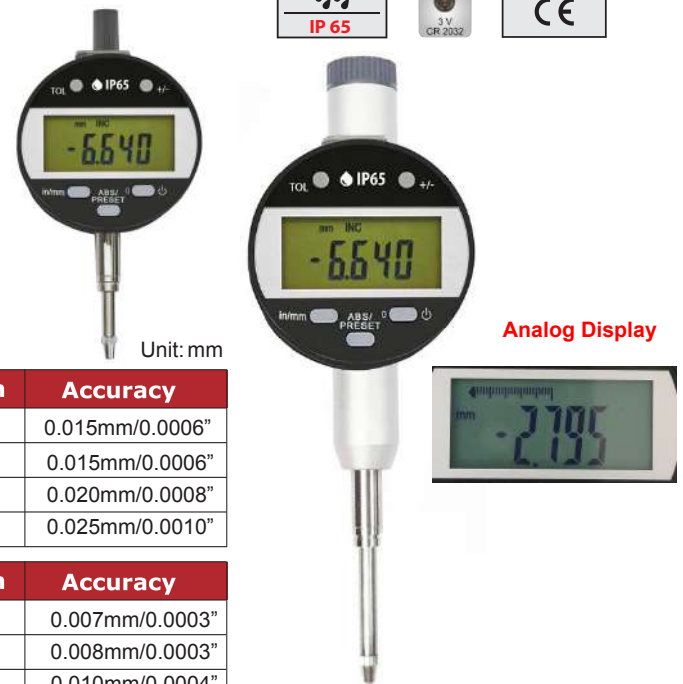


Model No.	Range mm/in	Resolution mm/in	Accuracy
P5004-12B	0-12.7mm/0-0.5"	0.001mm/0.00005"	4µm
P5004-25B	0-25mm/0-1"	0.001mm/0.00005"	5µm
P5004-30B	0-30mm/0-1.2"	0.001mm/0.00005"	5µm
P5004-50B	0-50mm/0-2"	0.001mm/0.00005"	6µm

IP65 WATERPROOF DIGITAL INDICATOR

FEATURES:

- Protection grade IP65
- 3V Lithium battery CR2032, battery life > 1 year
- Inductive measurement system
- Built in wireless transmission (optional)
- Tolerance preset and GO/NG judgement
- "+" or "-" direction set
- Analog display
- ABS / INC conversion, Inch/Metric conversion
- With preset value function, the initial value can be set arbitrarily



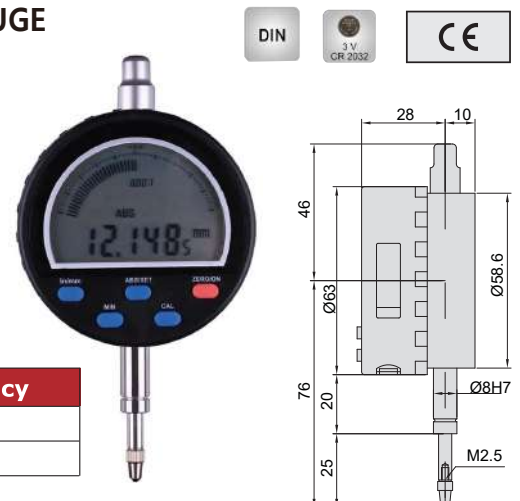
Model No.	Range mm/in	Resolution mm/in	Accuracy
P5000-12A	0-12.7mm/0-0.5"	0.01mm/0.0005"	0.015mm/0.0006"
P5000-25A	0-25mm/0-1"	0.01mm/0.0005"	0.015mm/0.0006"
P5000-50A	0-50mm/0-2"	0.01mm/0.0005"	0.020mm/0.0008"
P5000-100A	0-100mm/0-4"	0.01mm/0.0005"	0.025mm/0.0010"

Model No.	Range mm/in	Resolution mm/in	Accuracy
P5000-12B	0-12.7mm/0-0.5"	0.001mm/0.00005"	0.007mm/0.0003"
P5000-25B	0-25mm/0-1"	0.001mm/0.00005"	0.008mm/0.0003"
P5000-50B	0-50mm/0-2"	0.001mm/0.00005"	0.010mm/0.0004"
P5000-100B	0-100mm/0-4"	0.001mm/0.00005"	0.010mm/0.0004"

DIGITAL INDICATOR 0-6.5MM FOR DIGITAL BORE GAUGE

FEATURES :

- With Analog Display
- Inch/Metric conversion
- 360° screen rotation
- CAL,MIN,ABS/SET,Auto On/Off power
- Max force ≤ 1.2N
- Battery CR2032 3V
- 6 digit LCD display

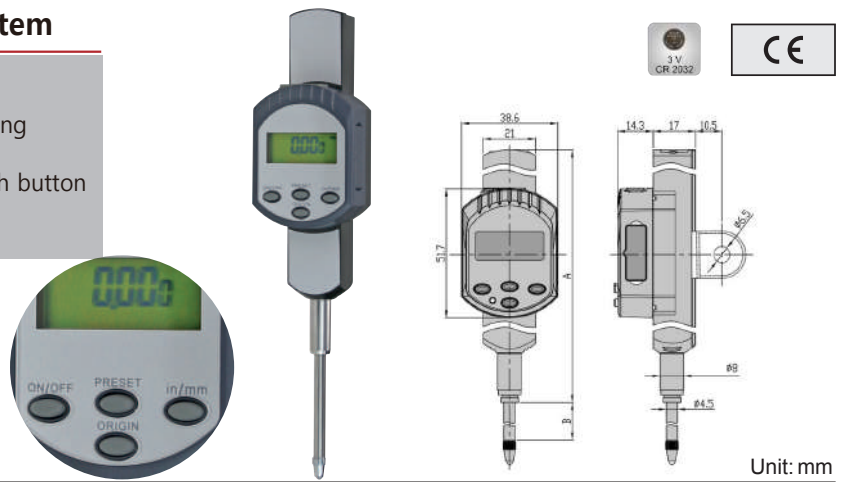


Model No.	Range mm/in	Resolution mm/in	Accuracy
P5122-212	0-6.5mm	0.002mm	20µm
P5132-212	0-6.5mm	0.001mm	5µm

Digital indicator absolute system

FEATURES:

- Absolute system with 3 V
- Scale with glass rail for precision sampling
- With digital LCD display
- With ON/OFF, ORIGIN, PRESET, mm/inch button
- Data output RS232 (RB6)
- Clamp shank 8 h6



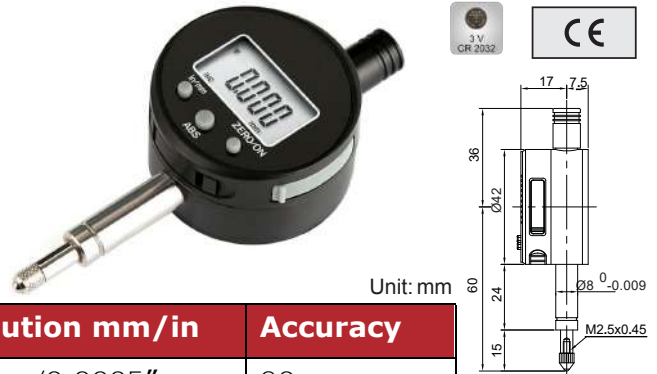
Unit: mm

Model No.	Range mm/in	Graduation	Accuracy mm	Measuring force N	shank	A	B
P5006-12A	12.7mm	0.01mm	10mm	> 1,2 N	8	101.4	15
P5006-25A	25.0mm	0.01mm	10mm	> 1,2 N	8	126.4	37
P5006-50A	50.0mm	0.01mm	15mm	> 1,2 N	8	176.9	63
P5006-100A	100mm	0.01mm	20mm	> 1,2 N	8	227.4	113
P5006-12B	12.7mm	0.001mm	4mm	> 1,2 N	8	101.4	15
P5006-25B	25mm	0.001mm	8mm	> 1,2 N	8	126.4	37

F@ 4?? F4B7 < G4? A7 64GBE

FEATURES:

- Button: on/off, zero, inch/mm conversion, measuring direction set, data preset absolute/incremental measurement
- Automatic power off
- Data output
- Diameter $\Phi 42$ mm



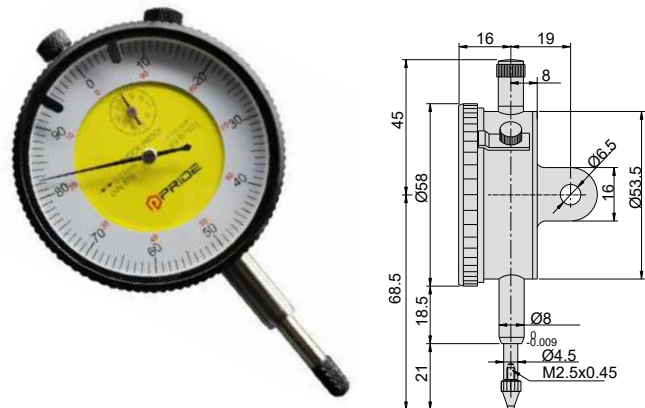
Unit: mm

Model No	Range mm/in	Resolution mm/in	Accuracy
P5003-B5	0-5mm/0-0.2"	0.01mm/0.0005"	20 μ m
P5003-Q5	0-5mm/0-0.2"	0.001mm/0.00005"	5 μ m

DIAL INDICATOR

FEATURES:

- Measuring surface flatness, checking tool set up, axial runout, checking squareness
- Body : Aluminum, steel
- Limit indicator clips included
- O-Ring sealed between inner and outer lid to protect from water or oil
- Flat type back and center-lug back included, (flat back is optional)
- Stem diameter: metric 8mm or inch 3/8"
- With bezel locking clamp and tolerance index
- Packed in plastic box



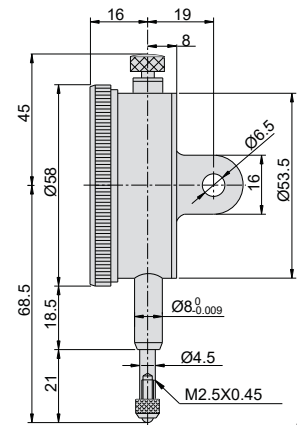
unit:mm

Model No.	Range mm	Graduation mm	Diameter	Accuracy
P5016-3E	0-3mm	0.01mm	$\Phi 60$	14 μ m
P5016-5E	0-5mm	0.01mm	$\Phi 60$	16 μ m
P5016-10E	0-10mm	0.01mm	$\Phi 60$	17 μ m
P5016-0.1	0-0.5in	0.001"	$\Phi 60$	0.004"

PREMIUM DIAL INDICATOR

FEATURES:

- Measuring surface flatness, checking tool set up, axial runout, checking squareness
- Body : Aluminum, steel
- Limit indicator clips included
- O-Ring sealed between inner and outer lid to protect from water or oil
- Flat type back and center-lug back included, (flat back is optional)
- Meet DIN878 ,JIS B7503, ANSI B89.1.10
- Stem diameter: metric 8mm or inch 3/8"
- With bezel locking clamp and tolerance index
- Packed in plastic box



DIN

unit:mm

Model No.	Range mm	Graduation mm	Diameter	Accuracy	Remarks
P5015-5	0-5mm	0.01mm	Φ60	16μm	----
P5015-10	0-10mm	0.01mm	Φ60	17μm	----
P5017-10A	0-10mm	0.01mm	Φ60	17μm	6 jewels /shockproof

PREMIUM DIAL INDICATOR

FEATURES:

- Measuring surface flatness, checking tool set up, axial runout, checking squareness
- Body : Aluminum, steel
- Limit indicator clips included
- O-Ring sealed between inner and outer lid to protect from water or oil
- Flat type back and center-lug back included, (flat back is optional)
- Meet DIN878 ,JIS B7503, ANSI B89.1.10
- Stem diameter: metric 8mm or inch 3/8"
- With bezel locking clamp and tolerance index
- Packed in plastic box



DIN

Model No.	Range mm	Graduation mm	Diameter	Accuracy	Scale
P5015-20	0-20mm	0.01mm	Φ60	25μm	0-100
P5015-25	0-25mm	0.01mm	Φ60	30μm	0-100
P5015-30	0-30mm	0.01mm	Φ60	35μm	0-100

DIAL INDICATOR

FEATURES:

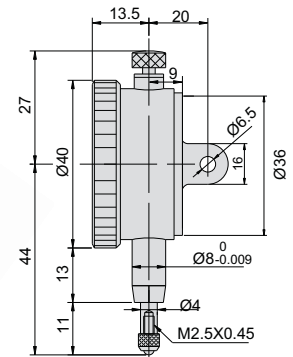
- Bezel: Ø40mm
- Graduation: 0.01mm
- With limit hands
- Supplied with lug and flat back



P5027-3



P5015-3

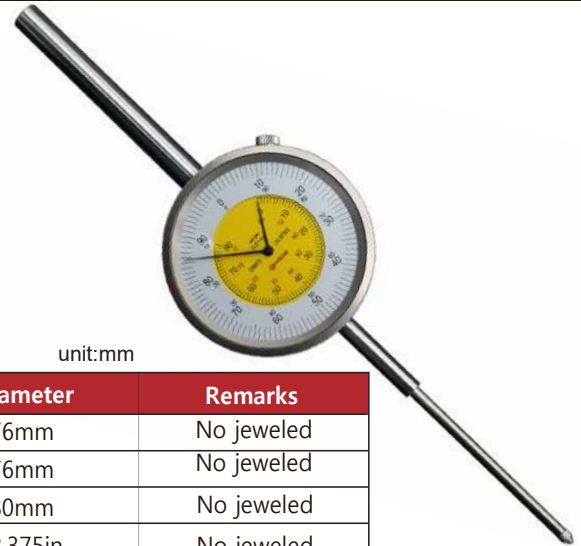


Model No.	Range mm	Graduation mm	Diameter	Accuracy	Remarks
P5027-3	0-3mm	0.01mm	Φ40	16μm	----
P5027-5	0-5mm	0.01mm	Φ40	18μm	----
P5015-3	0-3mm	0.01mm	Φ40	14μm	----
P5015-5B	0-5mm	0.01mm	Φ40	16μm	----

BIG SIZE DIAL INDICATOR

FEATURES:

- Long stroke measurement
- Body: Aluminum, steel
- Flat type back and center-lug back included, (flat back is optional)
- Stem diameter: metric 8mm or inch 3/8"
- Packed in plastic box



unit:mm

Model No.	Range mm	Graduation mm	Diameter	Remarks
P5020-50	0-50mm	0.01mm	Φ76mm	No jeweled
P5020-80	0-80mm	0.01mm	Φ76mm	No jeweled
P5020-100	0-100mm	0.01mm	Φ80mm	No jeweled
P5021-1.0	0-1in	0.001in	Φ2.375in	No jeweled
P5021-2.0	0-2in	0.001in	Φ2.375in	No jeweled

IP67 WATER PROOF DIAL INDICATOR

FEATURES:

- Round mechanical body
- Plastic dial adjustable ring
- With adjustable tolerance markers
- With dial locking screw
- Water proof and shock proof



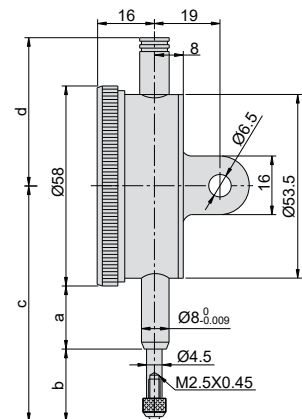
unit:mm

Model No.	Range mm	Graduation mm	Diameter	Remarks
P5031-10A	0-10mm	0.01mm	Φ60	--
P5031-10	0-10mm	0.01mm	Φ60	Shockproof & 6 jeweled
P5031-1	0-1mm	0.001mm	Φ60	Shockproof & 6 jeweled

PREMIUM MICRON DIAL INDICATOR

FEATURES:

- Measuring surface flatness, checking tool set up, axial runout, checking squareness
- Body : Aluminum, steel
- Meet DIN878, JIS B7503, ANSI B89.1.10
- Limit indicator clips included
- Jeweled bearings
- Flat type back and center-lug back included
- Shock proof spindle mechanism protects the gear from abrupt motion
- Stem diameter: metric 8mm, inch 3/8"
- With bezel locking clamp and tolerance index
- Packed in plastic box



unit:mm

Model No.	Range mm	Graduation mm	Diameter	Accuracy	a	b	c	d	Scale
P5034-01	0-1mm	0.001mm	Φ40	5μm					0-200
P5035-01	0-1mm	0.001mm	Φ60	5μm	15	19.5	62.5	45	0-200
P5035-03	0-3mm	0.001mm	Φ60	10μm	10	21.5	59.5	41.5	0-200
P5035-05	0-5mm	0.001mm	Φ60	10μm	10	21.5	59.5	41.5	0-200

MECHANICAL DIAL COMPARATOR

FEATURES:

- Easy to read with adjustable tolerance markers. Eliminate reading errors as possible with multi-rev dial indicators
- Measuring Spindle is mounted in a high precision ball guide for minimum hysteresis. Insensitive to lateral forces (side play) acting on the measuring spindle
- Measuring spindle can be retracted with either a screw in cable release or with a lifting knob. The mounting shank and spindle are both made of stainless steel
- Maximum sensitivity and accuracy are ensured by the jeweled movement and in conjunction with the precision gears and pinions
- A lockable fine adjustment screw allows for easy zeroing of the comparator



Unit: mm

Model No.	Range mm/in	Resolution mm/in	Stem-Φ
P5066M	±0.05mm	0.001mm	8mm
P5066I	±0.002in	0.00005in	3/8"

DIGITAL MIKROKATOR

FEATURES:

- Linear ball bearing for ten million times usage
- Ø28mm stem suitable for reinforced clamping
- Adjustable resolution:0.0002mm/0.00001", 0.001mm/0.00005"
- Reading in digital and analog
- Button functions:data output,tolerance,data preset,data hold,measuring direction change, max./min/TIR,on/off,mm/inch,adjustable resolution
- Power:rechargeable battery
- Ruby probe
- Wireless optional



Wireless optional

Unit: mm

Model No.	Range mm/in	Accuracy mm	Hysteresis
P5069-6	0-6mm/0-0.24"	1.6µm	0.8µm

MECHANICAL MIKROKATOR

FEATURES:

- The Mikrokator is an instrument for measuring differences in length. The Mikrokator principle greatly magnifies any deviation in size so that even small deviations produce large deflections of the pointer over the scale. The transference of movement from the measuring tip to the pointer is mechanical, completely frictionless and free from backlash
- Technical Data
- Mikrokator stand is optional forΦ28mm



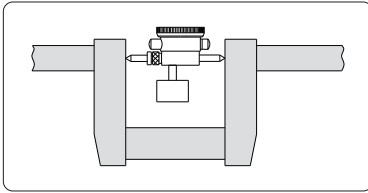
unit:mm

Model No.	Range mm	Graduation mm	Accuracy mm	Stem-Φ
P5069-003	±0.03mm	0.001mm	≤±0.0004mm	28mm
P5069-010	±0.10mm	0.001mm	≤±0.001mm	28mm
P5069-0015	±0.015mm	0.0005mm	≤±0.00025mm	28mm

CRANK SHANK DIAL INDICATOR

FEATURES:

- To test crankshaft deflection.
- The balance block is mounted on the back of dial indicator to keep the dial indicator facing up
- Delivery with wooden box



Unit: mm

Model No.	Range mm/in	Range mm/in	Resolution mm/in	EXTENSION RODS
P5075-500	60-500mm	0-3mm	0.01mm	16mm, 32mm, 64mm, 128mm
P5075-300	60-300mm	0-3mm	0.01mm	16mm, 32mm, 64mm, 96mm, 128mm, 192mm

Z-AXIS SETTER

FEATURES:

- Setting tool length on CNC milling and lathe machines
- Setting height: 50±0.005mm
- Large measuring surface and easily operated
- Low spring force to avoid breakage of small end mill or drill
- Easily calibrated by ground parallel or gauge blocks
- With better parallel, sensibility and accuracy
- Magnetic base



unit:mm

Model No.	Height	G.W.	L x W x H	N. W.
P5077-50A	50± 0.005	1.2kgs	101x101x90	0.59kgs
P5077-50B	2"	1.2kgs	101x101x90	0.59kgs
P5077-100A	100± 0.005	1.8kgs	120x120x90	1kgs

DIGITAL Z-AXIS SETTER IP65

FEATURES:

- Adjust the tools in zero position and to determine the reference point of the machine at the z-axis
- With digital indicator, reading 0.001 mm
- With magnet
- IP65 waterproof



Unit: mm

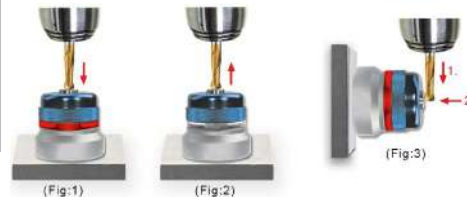
Model No.	Dimensions mm	Height mm
P5079	Ø50x53	50
P5080	Ø50x103	100



BCG-64? M4K F CE 8F 8GG8E

FEATURES:

- : cf'gyHh['Yb[h'cb'a UWX]b['WbhYfg#UH.Y'WbhYfg'
- GYHh['\Y][\h.) '\$\$\$\$ a "
- @f['Y'a YUgj f]b['g fZUW' UbX' YUgmhc' cdYfUH"
- @k 'gdfUb['ZcfWZA UmUj c]X' hY'a]'b['WfHY'cf'hY'Xf]'V]h' VfyU_"
- 9Ugmhc' VY'W]VfUH'X' VmU' [fci bX'dUfU'Y'cf [U[[Y'V'cW_
- 6YfHY' dUfU'Y']ga žYbg]h]]mLubX' dfYV]g]cb' Zcf'i gy'"'

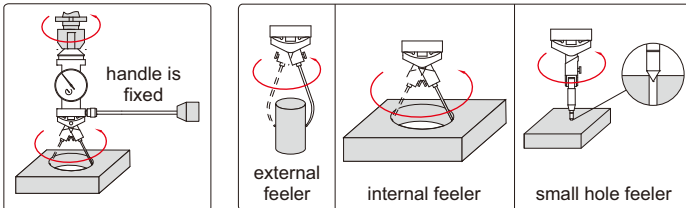


Model No.	Height	Weight/Kgs	Accuracy mm	Remark
P5078	50.00mm	0.7kgs	±0.005	Machine needs conductive before use.

COAXIAL CENTERING INDICATOR

FEATURES:

- Provides a simplified method of centering a workpiece of fixture on horizontal for vertical machine, internal or external diameters
- Operating speed not to exceed 800 RPM
- Graduation: 0.01mm
- Shank Dia.: Φ 10mm
- Range: Internal 4300mm.
- External up to 300mm
- Standard Accessories: 6 pcs Feeler Set, Feeling Rod, Center Locating Feeler



unit:mm

Model No.	Range mm	Graduation mm
P5091-03	0-3mm	0.01mm
P5091-0.15	0-0.15"	0.0015"
Description	Length mm	Capacity mm
6 pcs Feeler Set		
ID Feeler	50mm/2"	100mm
ID Feeler	100mm/4"	200mm
ID Feeler	150mm/6"	300mm
OD Feeler	50mm/2"	100mm
OD Feeler	100mm/4"	200mm
OD Feeler	150mm/6"	300mm
Center Locating Feeder		
Feeling Rod		

3D TASTER P5090-3

FEATURES:

- Used on milling and EDM machines
- To determine the zero position on a working piece
- To determine the center of a bore
- To determine and correct the position of a working piece
- And for measurement of length/depths

TECHNICAL DATA:

- The shaft diameter: φ 20 mm
- The measuring feeler diameter: φ 4 mm
- The division of the dial (the range of ten short divisions on the top position):
Radial: 0.01 mm
Axial: 0.0032 mm
- The measuring range of the feeler:
Radial: 0-10 mm
Axial: 0-6 mm
- The accuracy: 0.008mm Minimum graduation: 0.01mm
- The measuring depth: 30 mm



DIGITAL DEPTH GAGE

FEATURES:

- Buttons: mm/inch, ABS/PRESET, zero/on
- Auto power off
- CR2032 3V battery
- SPC data output
- With extension rods
- SPC cable and software optional
- Packed in plastic box
- Bottom surface of the base is hardened, ground and lapped for highest degree of flatness
- Optional base size:16x80,16x100,20x120, 20x150mm



P5084-12B



P5084-230



P5084-12C



P5084-12E



P5084-12G

Unit: mm

Model No.	Range mm	Accuracy mm	DIGITAL INDICATOR			BASE		Contact
			Range mm	Graduation	Accuracy	Length	Width	
P5084-12A	0-12mm	5um	0-12	0.001mm	±5um	63mm	16mm	Ball point Ø3mm
P5084-12B	0-12mm	20um	0-12	0.01mm	±20um	63mm	16mm	Ball point Ø3mm
P5084-230	0-230mm (10,20,40,60,100mm)	25um	0-12	0.01mm	±25um	63mm	16mm	Ball point Ø3mm
P5084-12C	0-12mm	5um	0-12	0.001mm	±5um	63mm	16mm	Needle Ø0.5x13mm
P5084-12D	0-12mm	20um	0-12	0.01mm	±20um	63mm	16mm	Needle Ø0.5x13mm
P5084-12E	0-10mm	5um	0-10	0.001mm	±5um	Ø16mm		Needle Ø0.5x13mm
P5084-12F	0-10mm	20um	0-10	0.01mm	±20um	Ø16mm		Needle Ø0.5x13mm
P5084-12G	0-10mm	5um	0-10	0.001mm	±5um	Ø40mm		Needle Ø0.5x13mm
P5084-12H	0-10mm	20um	0-10	0.01mm	±20um	Ø40mm		Needle Ø0.5x13mm

DIAL DEPTH GAGE

FEATURES:

- Optional base size:16x80,16x100,20x120, 20x150mm



P5085-10A



P5085-230



P5085-10B



P5085-10C



P5085-10D

Unit: mm

Model No.	Range mm	Accuracy mm	DIAL INDICATOR		BASE		Contact
			Range mm	Graduation	Length	Width	
P5085-10A	0-10mm	±15um	0-10	0.01mm	63mm	16mm	Ball point Ø3mm
P5085-230	0-230mm (10,20, 40,60,100mm)	±20um	0-10	0.01mm	63mm	16mm	Ball point Ø3mm
P5085-10B	0-10mm	±15um	0-10	0.01mm	63mm	16mm	Steel Needle Ø0.5x13mm
P5085-10C	0-10mm	±15um	0-10	0.01mm	Ø16mm	--	Steel Needle Ø0.5x13mm
P5085-10D	0-10mm	±15um	0-10	0.01mm	Ø40mm	--	Steel Needle Ø0.5x13mm
P5085-10E	0-10mm	±15um	0-10	0.01mm	Ø40mm	--	Carbide Needle Ø0.3x13mm

ARC DIGITAL RADIUS GAUGE

FEATURES:

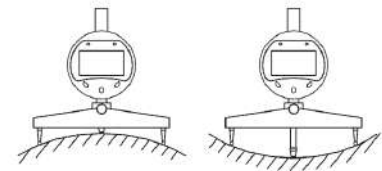
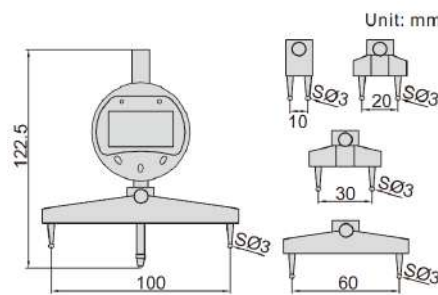
- The gauge can measure both inside and outside radius of arc or uncompleted circle automatically
- Display the tilt function
- Direct display the radius. No need to calculate
- With 5 different measuring jaw
- With fitted plastic box
- With English manual and instruction
- The Gauge can be used as Digital indicator with 0.005mm resolution
- Wide Range
- With data Hold function
- mm/inch convertible
- Measure radius of internal and external arcs
- Supplied with 5 jaws for different sizes of arc
- Battery CR2032



Model No.	Range of Radius R	Resolution	Accuracy mm	Unit: mm
P5061A	5-700mm/0.2-27.5"	0.005/0.00005"	±0.01R	

Application as indicators

- Outside measurement
- Inside measurement
- Depth measurement
- Step measurement



- Measure radius of internal and external arcs
- Supplied with 5 jaws for different sizes of arc
- Battery CR2032

Choose the measuring jaw:

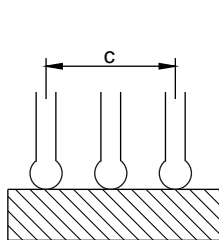
Choose the suitable jaw according to the size of the object.

In general, choose a large jaw with a large radius. The jaws are numbered from 10 to 20, 30, 60, and 100

Press the C key to change the C value (that is, the jaw size), and C= 10, 20, 30, 60, 100 will be displayed on the screen in order to make the jaw number correspond to the C value.

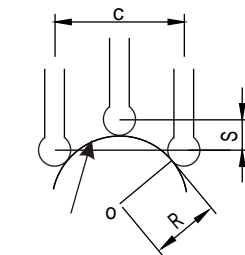
Unit: mm

Best measurement range	C=10	C=20	C=30	C=60	C=100
Outside diameter	R=5 --> 13MM	R=11--> 30MM	R=22-->100MM	R=94-->260MM	R=255-->700MM
Inside diameter	R=6.5 --> 15MM	R=14--> 30MM	R=27-->100MM	R=94-->260MM	R=255-->700MM



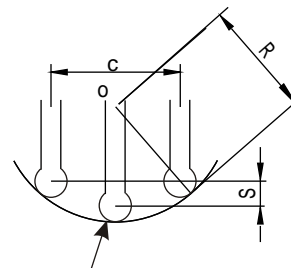
Zeroset

Outer arc



Outer arc measurement

Inner arc



Inner arc measurement

C: Jaw's center distance.
S: Spindle linear distance
R: The radius of arc

BIG-ARC DIGITAL RADIUS GAUGE

FEATURES:

- Measurement range: From 55 to 11250mm or from 2" to 443" Inches
- Power supply: 3V CR2032 Lithium battery (included)
- Working temperature: 0±40°C
- Storage and transport temperature: -20°C – 60°C
- Relative humidity: =80%

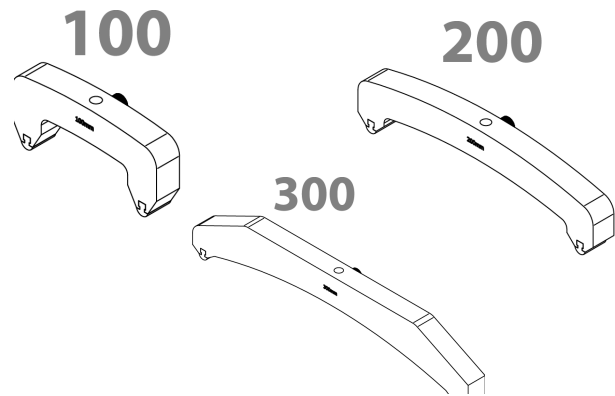


Unit: mm

Model No.	Range of Radius R	Resolution	Radius Accuracy
P5061B	450-2250mm	0.005/0.00005"	<1%
P5061C	55 to 11250mm /2" to 443"	0.005/0.00005"	<2%

Measuring arc selection

Before calibrating the meter, you must select the arc to be used. The correct arc to be used for a measurement depends on the value of the radius to be measured. In general, the larger the radius to be measured, the larger the arc must be. The arcs on this meter are marked by the numbers 100, 200 and 300, which correspond to the distance between supports.



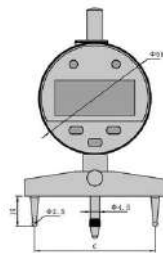
GUIDE TO SELECTING ARCS FOR INNER AND OUTER RADIUS MEASUREMENTS

ARC	millimeters		inches	
	Minimum radius	Maximum radius	Minimum radius	Maximum radius
S=100	R=55	R=625	R=2	R=25
S=200	R=125	R=2500	R=5	R=99
S=300	R=475	R=11250	R=18	R=443

PRECISION DIGITAL RADIUS GAUGE

FEATURES:

- For measurement of round parts or hole
- Large range from 5 to 3000 mm
- Direct reading of measured value
- With diverse measuring bases for optimal measuring
- With special dial indicator
 - range 0 - 12.7 mm
 - display of radius value
 - Mode button for selection of optimal base
- In case/box



unit:mm

Model No.	Range mm/in	Meas. base mm	Out radius mm	Inner radius mm	Reading mm	Accuracy mm
P5301-0501	5-1000mm	10mm	5-11mm	6.5-13mm	0.01mm	1%
		20mm	11-30mm	14-30mm		
		30mm	25-100mm	25-100mm		
		60mm	95-260mm	95-260mm		
		100mm	255-1000mm	255-1000mm		
P5301-0502	5-3000mm	10mm	5-11mm	6.5-13mm	0.01mm	1%
		20mm	11-30mm	14-30mm		
		30mm	25-100mm	25-100mm		
		60mm	95-260mm	95-260mm		
		100mm	255-1000mm	255-1000mm		
		200mm	900-3000mm	900-3000mm		

BASE FOR DIAL INDICATOR

FEATURES:

- All bases have a bore $\varnothing 8$ mm H7
- They are mutually interchangeable
- The bases are chromed and hardened
- The measuring surfaces faces are lapped
- The metal collet attachment guarantees reliable fixing of the dial gauges



Model No.	Base size mm	unit:mm
P5003-63	63X16mm	
P5003-80	80x16mm	
P5003-100	100x16mm	
P5003-150	150x20mm	

V-BASE FOR DIAL INDICATOR

FEATURES:

- Ideal for checking cylindrical parts ranging from 10mm to 100mm.
- The base will accept any dial or digital gage with a 8mm stem or 0.375" stem using supplied reducer brushing.



Model No.	Base size mm	unit:mm
P5003-V	10-100mm	

LUG AND FLAT BACK COVER

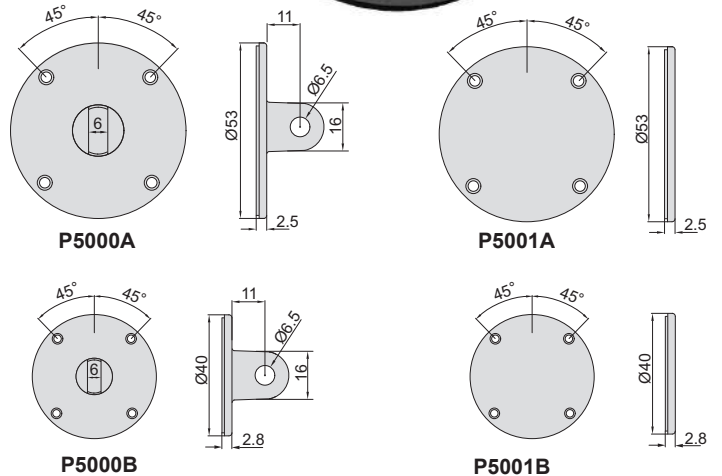
FEATURES:

- Used to install dial indicator
- Made of aluminum



unit: mm

Model No.	Material	Type
P5000A	metal	lug
P5000B	plastic	flat
P5001A	metal	lug
P5001B	plastic	flat



LIFTING LEVER FOR DIAL INDICATOR

FEATURES:

- Suitable for all dial indicators

Model No.	l	l 1	l 2
P5002A	61	13	32

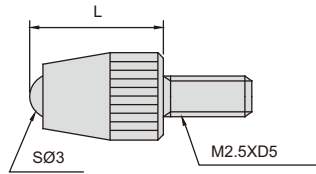


BALL POINTS



D) \$%*-0101 D) \$%*!\$%& D) \$%*!\$%'

unit:mm



D) \$%*!\$%\$(D) \$%*!\$%\$)

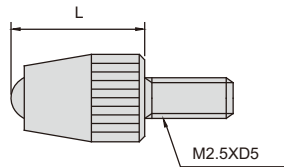
D) \$%*!\$%\$*
unit:mm

Model No.	Material of measuring face	L (mm)
D) \$%*-0101	Steel	3.8
D) \$%*!\$%&	Ruby	3.8
D) \$%*!\$%'	Carbide	3.8

Model No.	Material of measuring face	L (mm)
D) \$%*!\$%\$(	Steel	7.3
D) \$%*!\$%\$)	Ruby	7.3
D) \$%*!\$%\$*	Carbide	7.3



D) \$%*!\$%\$+ D) \$%*!\$%\$, D) \$%*!\$%\$-



D) \$%*!\$%\$& D) \$%*!\$%\$% D) \$%*!\$%\$&

Model No.	Material of measuring face	L (mm)
D) \$%*!\$%\$+	Carbide	9xSØ1.5
D) \$%*!\$%\$,	Ruby	9xSØ2
D) \$%*!\$%\$-	Carbide	9xSØ2

unit:mm

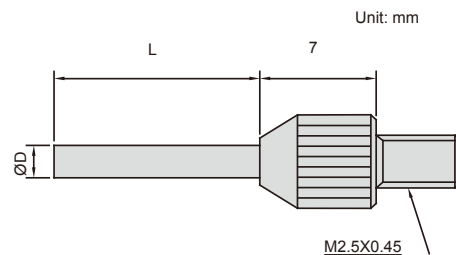
Model No.	Material of measuring face	L (mm)
D) \$%*!\$%\$&	Steel	8xSØ2.5
D) \$%*!\$%\$%	Ruby	8xSØ2.5
D) \$%*!\$%\$&	Carbide	8xSØ2.5

unit:mm

FLAT CONTACTS

unit:mm

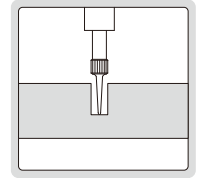
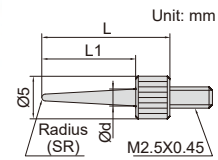
Model No.	Material	ØD	L
P5016-0113	carbide	1	3
P5016-0114	carbide	1	5
P5016-0115	carbide	1	10
P5016-0116	carbide	1	20
P5016-0117	carbide	1	30
P5016-0118	carbide	1	40
P5016-0119	carbide	1.5	5
P5016-0120	carbide	1.5	10
P5016-0121	carbide	1.5	20
P5016-0122	carbide	1.5	30
P5016-0123	carbide	1.5	40
P5016-0124	carbide	2	10
P5016-0125	carbide	2	20
P5016-0126	carbide	2	30
P5016-0127	carbide	2	40



NEEDLE POINTS

unit:mm

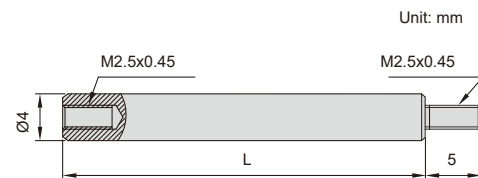
Model No.	Material of measuring	L1	L	SR	Ød
P5016-0128	steel	11	15	0.3	2
P5016-0129	steel	13	17	0.3	2
P5016-0130	steel	22	26	0.3	3
P5016-0131	steel	30	34	0.3	3



EXTENSION RODS

unit:mm

Model No.	Material	L (mm)
P5016-0132	steel	10
P5016-0133	steel	15
P5016-0134	steel	20
P5016-0135	steel	25
P5016-0136	steel	30
P5016-0137	steel	35
P5016-0138	steel	40
P5016-0139	steel	45
P5016-0140	steel	50
P5016-0141	steel	55
P5016-0142	steel	60
P5016-0143	steel	65
P5016-0144	steel	70
P5016-0145	steel	75
P5016-0146	steel	80
P5016-0147	steel	90
P5016-0148	steel	100



SPINDLE LIFT KNOB

FEATURES:

- For dial/digital indicators with spindle diameter Ø4.5mm or Ø5mm

Model No.

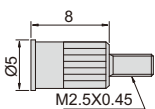
P5016-0150



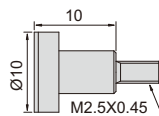
INTERCHANGEABLE CONTACT SET

unit:mm

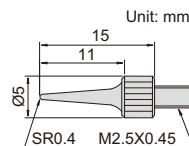
Model No.	Material of measuring face
P5016-0149	steel



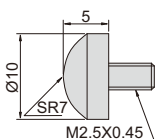
Flat Point



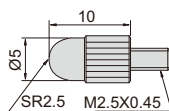
Flat Point



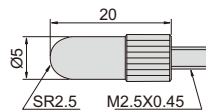
Needle Point



Spherical Point



Shell Type Point



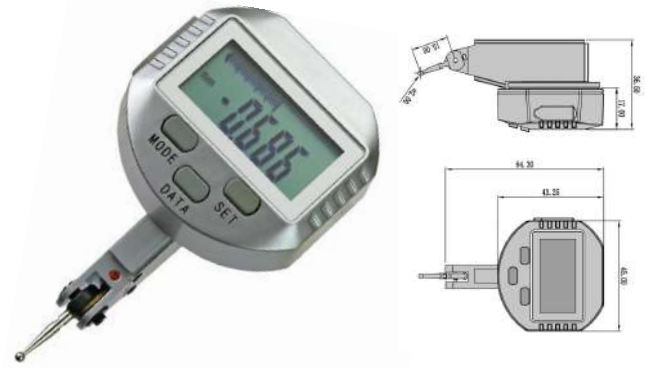
Shell Type Point



IP65 DIGITAL TEST INDICATOR

FEATURES:

- Carbide tipped probe \varnothing 2 mm
- Waterproof IP65, automatically inversion of measuring direction
- With clamping adapter \varnothing 4 mm and \varnothing 8 mm
- Digital display with moving bar, rotatable
- Reading 0.001 mm
- With MODE, SET and DATA button, measuring method: standard, maximum, minimum and deviation
- 3V Battery CR2032 Analog display
- P5102-008W/002W is wireless data transferring



Model No.	Range mm/in	Reading mm	Accuracy mm	Probe L mm
P5102-008	0-0.8/0-0.03"	0.001mm/0.00005"	0.013mm	15mm
P5102-002	0-0.2/0-0.008"	0.001mm/0.00005"	0.005mm	15mm
P5102-008W	0-0.8/0-0.03"	0.001mm/0.00005"	0.013mm	15mm
P5102-002W	0-0.2/0-0.008"	0.001mm/0.00005"	0.005mm	15mm

Unit: mm

DIAL TEST INDICATOR

FEATURES:

- Meet DIN2270 or BS2795
- Satin-chrome finish brass body, anti magnetic
- Jeweled bearing, shock-proof
- Interchangeable carbide contact point, diameter 2mm, supplied with wrench
- With two holding stems: metric 6mm and 8mm,
- Packed in plastic box



unit:mm

Model No.	Range mm	Graduation mm	Bezel diameter	Remarks
P5106-08-30	0-0.8mm	0.01mm	30mm	--
P5106-08-40	0-0.8mm	0.01mm	40mm	--
P5106-08-30R	0-0.8mm	0.01mm	30mm	Ruby head
P5106-08-40R	0-0.8mm	0.01mm	40mm	Ruby head
P5106-0.03-1	0-0.03"	0.0005"	1.18"	--
P5106-0.03-2	0-0.03"	0.0005"	1.48"	--
P5106-0.03-1R	0-0.03"	0.0005"	1.18"	Ruby head
P5106-0.03-2R	0-0.03"	0.0005"	1.48"	Ruby head

DIAL TEST INDICATOR

FEATURES:

- Meet DIN2270 or BS2795
- Satin-chrome finish brass body, anti magnetic
- Jeweled bearing, shock-proof
- Interchangeable carbide contact point, diameter 2mm supplied with wrench
- With two holding stems: metric 6mm and 8mm
- Packed in plastic box



unit:mm

Model No.	Range mm	Graduation mm	Bezel diameter	Remarks
P5107-02-30	0 ~ 0.2mm	0.002mm	30mm	--
P5107-02-40	0 ~ 0.2mm	0.002mm	40mm	--
P5107-008-1	0 ~ 0.008in	0.0001in	1.6i	--
P5107-008-2	0 ~ 0.008in	0.0001in	1.57in	--
P5108-012-30	0 ~ 0.14mm	0.001mm	30mm	-
P5108-012-40	0 ~ 0.14mm	0.001mm	40mm	-

DIAL TEST INDICATOR LONG PROBE

FEATURES:

- Chrome finish brass body, anti magnetic
- Jeweled bearing, shock-proof
- Interchangeable carbide contact point, diameter 2mm, supplied with wrench
- With two holding stems: metric 6mm and 8mm, imperial 5/32" and 3/8"
- Packed in plastic box



Unit: mm

Model No.	Range mm/in	Graduation	Bezel diameter	Probe length
P5106-08-30L	0-1mm	0.01mm	30mm	36mm
P5106-08-40L	0-1mm	0.01mm	40mm	36mm

DIAL TEST INDICATOR-VERTICAL TYPE

FEATURES:

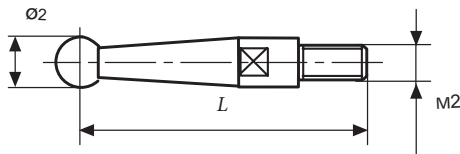
- Satin-chrome finish brass body, anti magnetic
- Jeweled bearing, shock-proof
- Interchangeable carbide contact point, diameter 2mm, supplied with wrench
- With two holding stems: metric 6mm and 8mm, imperial 5/32" and 3/8"
- Packed in plastic box



unit:mm

Model No.	Range mm/in	Graduation	Bezel diameter	Remarks
P5109-08-30	0-0.8mm	0.01mm	30mm	--
P5109-08-40	0-0.8mm	0.01mm	40mm	--
P5109-02-30	0 ~ 0.2mm	0.002mm	30mm	--
P5109-02-40	0 ~ 0.2mm	0.002mm	40mm	--

STYLI FOR DIAL TEST INDICATOR



A cXY" Bc"	A Uñf]U	@b a Ł	
P5106-1	Steel	18	M2X0.2
P5106-2	Steel	29	M2X0.2
P5106-3	Steel	17	M2X0.2
P5106-4	Steel	36	M2X0.2
P5106-5	Ruby	18	M2X0.2
P5106-6	Ruby	29	M2X0.2
P5106-7	Ruby	17	M2X0.2
P5106-8	Ruby	12	M2X0.2
P5106-9	Ruby	36	M2X0.2
P5106-10	Carbide	18	M2X0.2



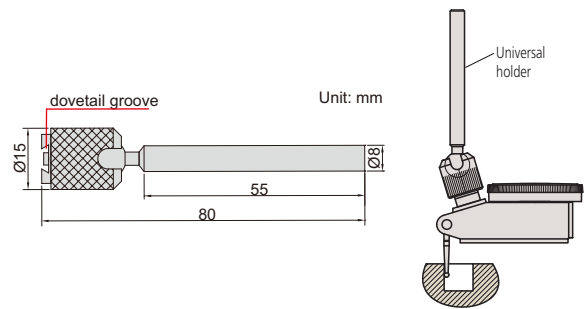
DIAL TEST INDICATOR UNIVERSAL HOLDER

FEATURES:

- Set the indicators at the desired attitude to the workpiece

Model No. unit:mm

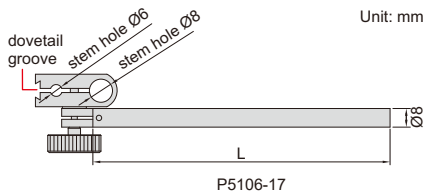
P5106-16



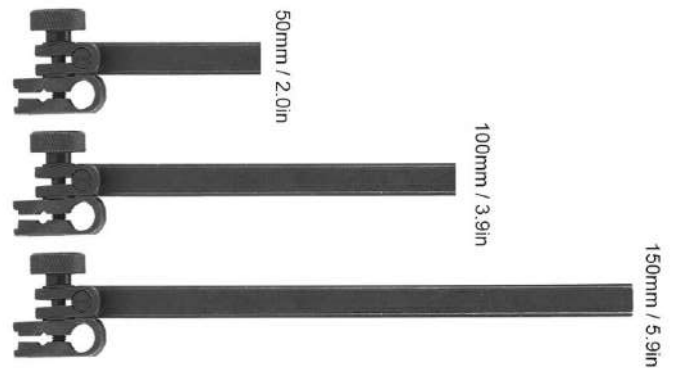
DIAL TEST INDICATOR HOLDER



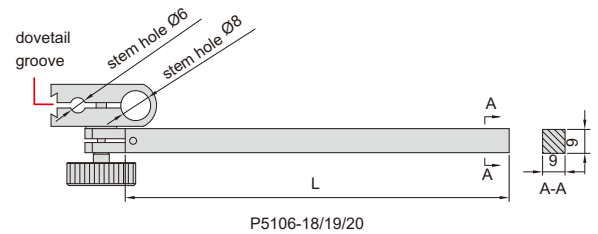
P5106-17



unit:mm



Model No.	Stem section	Stem length (L)
P5106-17	Ø8mm	115mm
P5106-18	9x9mm	50mm
P5106-19	9x9mm	100mm
P5106-20	9x9mm	150mm



CENTERING HOLDER FOR DIAL TEST INDICATOR

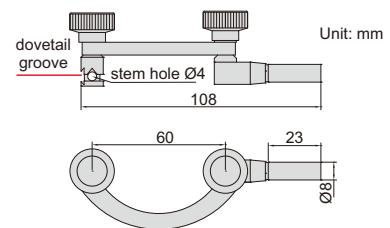
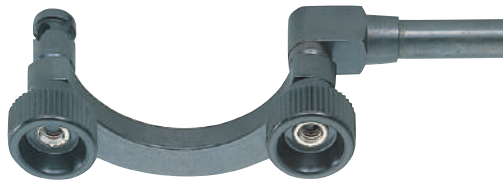
FEATURES:

- Can be used with dial test indicators

unit:mm

Model No.

P5106-21



STEMS FOR DIAL TEST INDICATORS

unit:mm

Model No.	ØD
P5106-22	Ø4mm
P5106-23	Ø8mm
P5106-24	Ø8mm





ID BORE GAGE

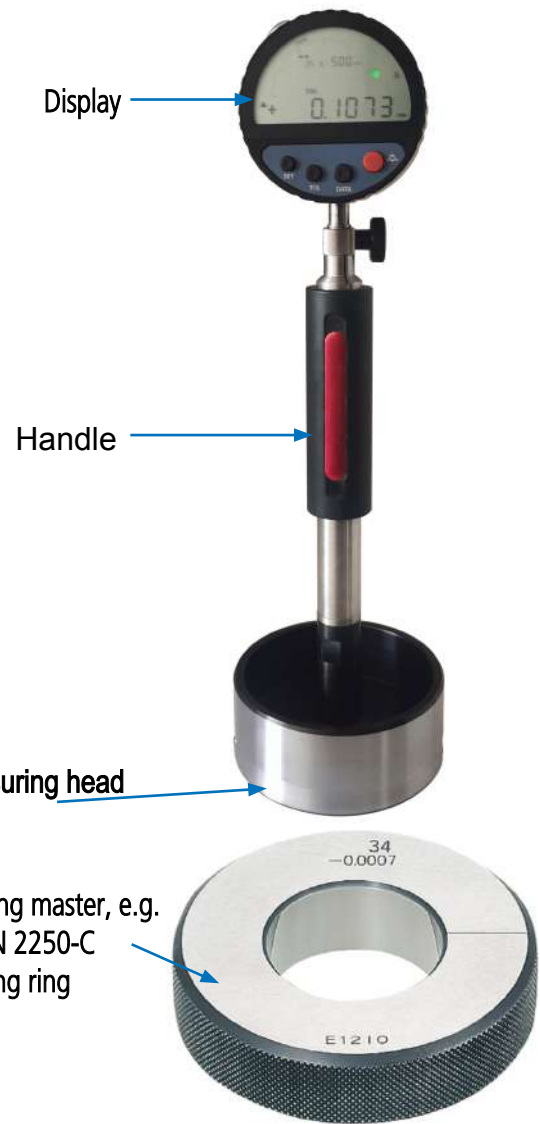
for bores from dia. 2.7 mm - 320 mm

ID BORE GAGE

Basic principle

The ID BORE GAUGE is a mechanical two-point contact comparator measuring instrument suited for manual or automatic measurement. Each measuring instrument is specially tailored to suit a specific diameter and the corresponding tolerance.

The ID bore gauge serves for the measurement of bores with a diameter from 2.7 up to 320 mm, as well as their deviations in form, without searching for the reversal point on the indicating unit. For the indication of the measuring value, precision indicators, mechanical or electronic dial gauges or electronic probes can be used.



Applications

The ID bore gauge is a robust and easy to use comparator measuring instrument, which is conceived for the series control of bores.

The ID bore gauge meets the following requirements:

- easy handling
- quick measurement
- maximal measurement certainty

The ID bore gauge is ideally suited wherever it is necessary to get a quick and reliable measuring result:

- direct on the production machine
- in the incoming or final inspection
- in the room for precision measuring

The ID bore gauge is the ideal replacement for usual gauges, whenever the statement "good / bad" is not satisfying enough. Furthermore, it is possible to use it either manually, or as a part of a fully automatic measuring station.

Advanges

Highest precision

The precision of a comparator gauge is shown clearly with the repeatability. For the ID bore gauge this is max. 0,5 to 1 μm (for standard design up to diameter 130 mm).

Easy handling

The ID bore gauge enables the measurement without searching for the reversal point on the indicating unit and is therefore also suitable for unskilled users.

High measuring certainty

Since the ID gauge head, which is exactly tailored for a specific measuring situation, centres and guides the measuring instrument in the bore, the influence of the user on the measuring result is minimised.

Fast measuring process

A stationary measuring value is obtained immediately when entering the bore to be measured. This enables a large number of measurements within the shortest period of time.

High flexibility

All the measuring heads and the corresponding holders have a thread connection M11 x 0,75.

Therefore it is possible to choose any combination required; a quick adjustment to any measuring task is ensured.

Accessories, like for example an angle piece or measuring depth extensions, can be assembled without any problem.

Easy setting

As setting references, setting rings are often used in practice; the use of master pieces or external micrometers is also possible.

Cross heads

From diameter 170 mm, we offer the so-called cross head or cross head with runners. In opposition to the conventional full round head, the cross head (with runners) presents advantages regarding weight and handling when measuring large diameters.

**Cross head for dia. 170-320 mm
for blind bores or short centring
shoulders**



INDICATING ID BORE GAUGE

FOR MEASURING INTERNAL DIAMETERS,

APPLICATION RANGE 2,7 - 320 MM

Assembly complete set:

Measuring heads with two radially movable contact pins, offset by 180° + ID holder + indication unit of choice.

Please let us know the exact bore tolerance with your order:

Example: if your specimen tolerance is $\text{Ø}35 + 0,15/-0,01$, and THROUGH

BORES, then you can choose model PGD-T3545-D35, if you use electronic probe, then you should order PGD-T3545-D35-DS

Measuring Heads for FOR STANDARD BORES, THROUGH BORES, BLIND HOLE BORES, SUPER BLIND HOLE BORES



Measuring Heads for FOR STANDARD BORES PGD-S

nominal-Ø [mm]	Accuracy mm	Stroke	FOR STANDARD BORES	
			Height	Model No.
Ø2.7-3.0	<0.001	0.15	1.3	PGD-S2730
Ø3.0-3.5	<0.001	0.15	1.3	PGD-S3035
Ø3.5-4.0	<0.001	0.15	1.5	PGD-S3540
Ø4.0-4.6	<0.001	0.15	1.5	PGD-S4046
Ø4.6-5.2	<0.001	0.2-0.25	1.5	PGD-S4652
Ø5.2-6.0	<0.001	0.2-0.25	1.5	PGD-S5260
Ø6.0-7.0	<0.001	0.2-0.25	2	PGD-S6070
Ø7.0-9.0	<0.001	0.2-0.25	2	PGD-S7090
Ø9.0-11.0	<0.001	0.2-0.25	2.5	PGD-S9011
Ø11.0-14.0	<0.001	0.2-0.4	2.5	PGD-S1114
Ø14.0-25.0	<0.001	0.2-0.4	2.8	PGD-S1425
Ø25.0-35.0	<0.001	0.2-0.4	4	PGD-S2535
Ø35.0-45.0	<0.001	0.2-0.4	4	PGD-S3545
Ø45.0-60.0	<0.001	0.2-0.4	4.5	PGD-S4560
Ø60.0-200	<0.002	0.3-0.4	4.5	PGD-S60200
Ø170-320	<0.0025	0.4	5	PGD-S170320

Measuring Heads for FOR THROUGH BORES PGD-T

nominal-Ø [mm]	Accuracy mm	Stroke	FOR THROUGH BORES	
			Height	Model No.
Ø2.7-3.0	<0.001	0.15	3	PGD-T2730
Ø3.0-3.5	<0.001	0.15	3.5	PGD-T3035
Ø3.5-4.0	<0.001	0.15	3.5	PGD-T3540
Ø4.0-4.6	<0.001	0.15	3.5	PGD-T4046
Ø4.6-5.2	<0.001	0.2-0.25	4	PGD-T4652
Ø5.2-6.0	<0.001	0.2-0.25	4	PGD-T5260
Ø6.0-7.0	<0.001	0.2-0.25	5	PGD-T6070
Ø7.0-9.0	<0.001	0.2-0.25	5	PGD-T7090
Ø9.0-11.0	<0.001	0.2-0.25	10	PGD-T9011
Ø11.0-14.0	<0.001	0.2-0.4	10	PGD-T1114

Ø14.0-25.0	<0.001	0.2-0.4	10	PGD-T1425
Ø25.0-35.0	<0.001	0.2-0.4	10	PGD-T2535
Ø35.0-45.0	<0.001	0.2-0.4	10	PGD-T3545
Ø45.0-60.0	<0.001	0.2-0.4	10	PGD-T4560
Ø60.0-200	<0.002	0.3-0.4	10	PGD-T60200
Ø170-320	<0.0025	0.4	14	PGD-T170320

Measuring Heads for FOR BLIND HOLE BORES PGD-B

nominal-Ø [mm]	Accuracy mm	Stroke	FOR BLIND HOLE BORES	
			Height	Model No.
Ø2.7-3.0	<0.001	0.15	1.1	PGD-B2730
Ø3.0-3.5	<0.001	0.15	1.1	PGD-B3035
Ø3.5-4.0	<0.001	0.15	1.1	PGD-B3540
Ø4.0-4.6	<0.001	0.15	1.1	PGD-B4046
Ø4.6-5.2	<0.001	0.2-0.25	1.1	PGD-B4652
Ø5.2-6.0	<0.001	0.2-0.25	1.1	PGD-B5260
Ø6.0-7.0	<0.001	0.2-0.25	1.1	PGD-B6070
Ø7.0-9.0	<0.001	0.2-0.25	1.1	PGD-B7090
Ø9.0-11.0	<0.001	0.2-0.25	1.2	PGD-B9011
Ø11.0-14.0	<0.001	0.2-0.4	1.2	PGD-B1114
Ø14.0-25.0	<0.001	0.2-0.4	1.2	PGD-B1425
Ø25.0-35.0	<0.001	0.2-0.4	2.3	PGD-B2535
Ø35.0-45.0	<0.001	0.2-0.4	2.3	PGD-B3545
Ø45.0-60.0	<0.001	0.2-0.4	4.5	PGD-B4560
Ø60.0-200	<0.002	0.3-0.4	4.5	PGD-B60200
Ø170-320	<0.0025	0.4	5	PGD-B170320

Measuring Heads for FOR SUPER BLIND HOLE BORES PGD-SB

nominal-Ø [mm]	Accuracy mm	Stroke	FOR SUPER BLIND HOLE BORES	
			Height	Model No.
Ø20.0-35.0	<0.001	0.2-0.4	1.5	PGD-SB2035
Ø35.0-60.0	<0.001	0.2-0.4	1.5	PGD-SB3560
Ø60.0-200	<0.002	0.3-0.4	1.5	PGD-SB60200

FOR STANDARD BORES

FOR THROUGH BORES

FOR BLIND HOLE BORES

Model: PGD-S2730 ϕ 2.7-3.0 	Model: PGD-T2730 ϕ 2.7-3.0 	Model: PGD-B2730 ϕ 2.7-3.0
Model: PGD-S3035 ϕ 3.0-3.5 	Model: PGD-T3035 ϕ 3.0-3.5 	Model: PGD-B3035 ϕ 3.0-3.5
Model: PGD-S3540 ϕ 3.5-4.0 	Model: PGD-T3540 ϕ 3.5-4.0 	Model: PGD-B3540 ϕ 3.5-4.0
Model: PGD-S4046 ϕ 4.0-4.6 	Model: PGD-T4046 ϕ 4.0-4.6 	Model: PGD-B4046 ϕ 4.0-4.6
Model: PGD-S4652 ϕ 4.6-5.2 	Model: PGD-T4652 ϕ 4.6-5.2 	Model: PGD-B4652 ϕ 4.6-5.2

FOR STANDARD BORES

FOR THROUGH BORES

FOR BLIND HOLE BORES

<p>Model: PGD-S5260 ϕ 5.2-6.0</p>	<p>Model: PGD-T5260 ϕ 5.2-6.0</p>	<p>Model: PGD-B5260 ϕ 5.2-6.0</p>
<p>Model: PGD-S6070 ϕ 6.0-7.0</p>	<p>Model: PGD-T6070 ϕ 6.0-7.0</p>	<p>Model: PGD-B6070 ϕ 6.0-7.0</p>
<p>Model: PGD-S7090 ϕ 7.0-9.0</p>	<p>Model: PGD-T7090 ϕ 7.0-9.0</p>	<p>Model: PGD-B7090 ϕ 7.0-9.0</p>
<p>Model: PGD-S9011 ϕ 9.0-11.0</p>	<p>Model: PGD-T9011 ϕ 9.0-11.0</p>	<p>Model: PGD-B9011 ϕ 9.0-11.0</p>
<p>Model: PGD-S1114 ϕ 11.0-14.0</p>	<p>Model: PGD-T1114 ϕ 11.0-14.0</p>	<p>Model: PGD-B1114 ϕ 11.0-14.0</p>

FOR STANDARD BORES FOR THROUGH BORES

FOR BLIND HOLE BORES

<p>Model: PGD-S1425 ϕ 14.0-25.0</p>	<p>Model: PGD-T1425 ϕ 14.0-25.0</p>	<p>Model: PGD-B1425 ϕ 14.0-25.0</p>
<p>Model: PGD-S2535 ϕ 25.0-35.0</p>	<p>Model: PGD-T2535 ϕ 25.0-35.0</p>	<p>Model: PGD-B2535 ϕ 25.0-35.0</p>
<p>Model: PGD-S3545 ϕ 35.0-45.0</p>	<p>Model: PGD-T3545 ϕ 35.0-45.0</p>	<p>Model: PGD-B3545 ϕ 35.0-45.0</p>
<p>Model: PGD-S4560 ϕ 45.0-60.0</p>	<p>Model: PGD-T4560 ϕ 45.0-60.0</p>	<p>Model: PGD-B4560 ϕ 45.0-60.0</p>
<p>Model: PGD-S60200 ϕ 60.0-200.</p>	<p>Model: PGD-T60200 ϕ 60.0-200.0</p>	<p>Model: PGD-B60200 ϕ 60.0-200.0</p>

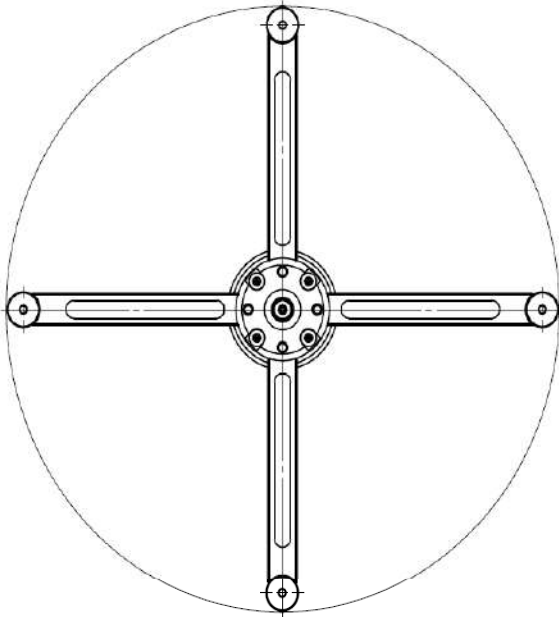
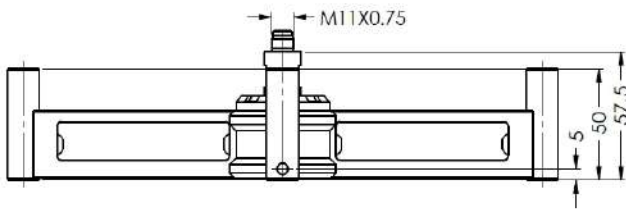
FOR SUPERBLIND HOLE BORES

Model: PGD-SB2035 ϕ 20.0-35.0	Model: PGD-SB3560 ϕ 35.0-60.0	Model: PGD-SB60200 ϕ 60.0-200.0

Cross Head for ϕ 170-320

Model: PGD-S170320 ϕ 170.0-320.0	Model: PGD-T170320 ϕ 170.0-320.0

Model: **PGD-B170320** $\phi 170.0-320.0$



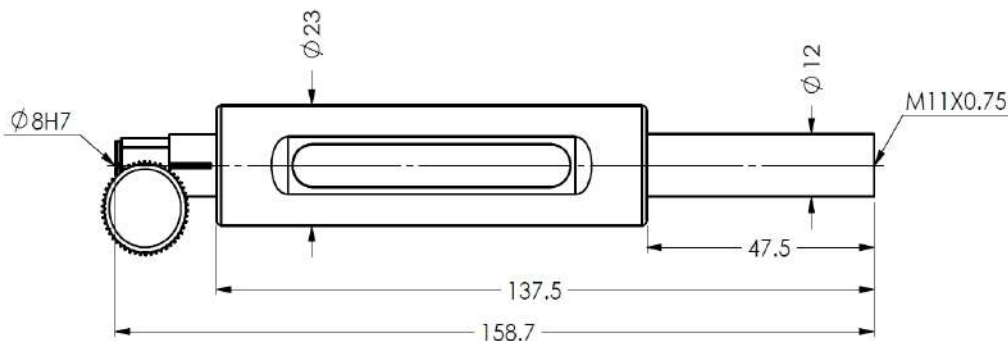
HANDLES & DEPTH EXTENSIONS

Description

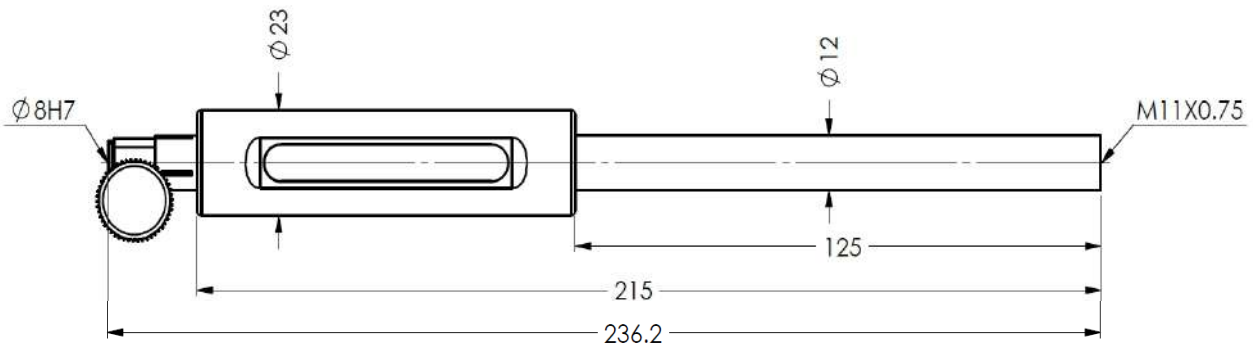
ID bore gauge handles will accept 8 mm or 0.375" diameter stem indicator. Each handle includes two interchangeable brass bushings for each diameter and an allen wrench.

Model: **PH12-160**

Shaft $\phi 12$, use for analog or digital indicator.

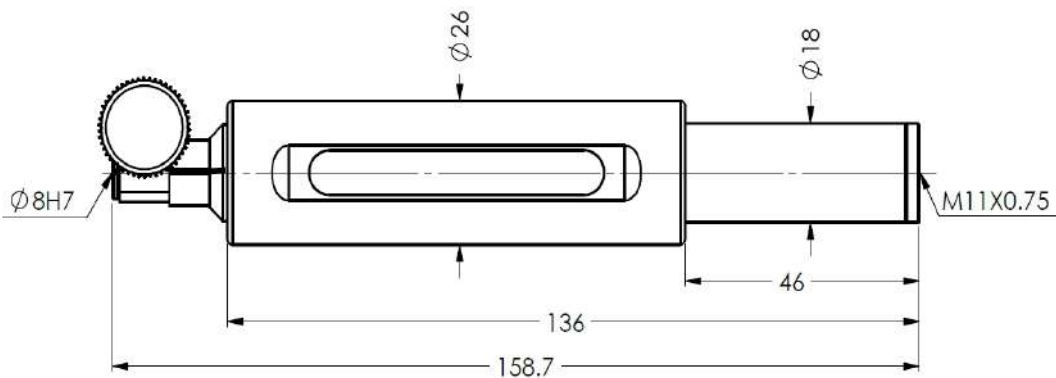


Model: PH12-235 with depth extension

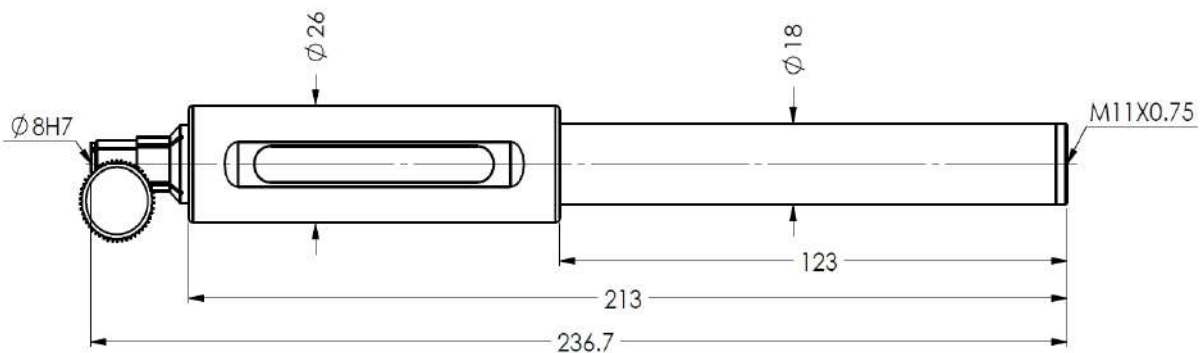


Model: PH18-160

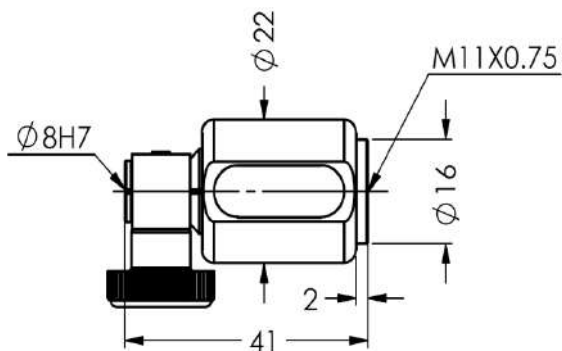
Shaft $\varnothing 18\text{mm}$ for analog or digital indicator.



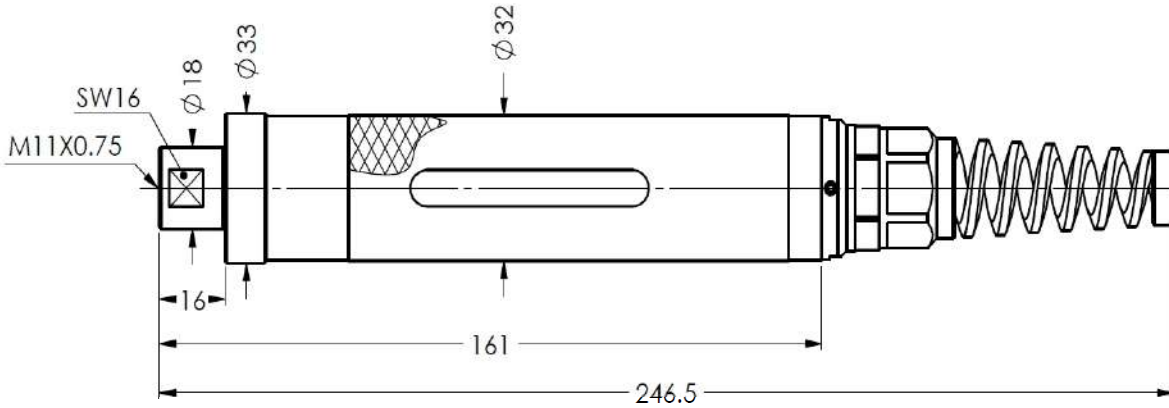
Model: PH18-235 with depth extension



Model: PH12-40 very short handle



Model: PH-DS Used for Ø8MM electronic probes.



Depth stop

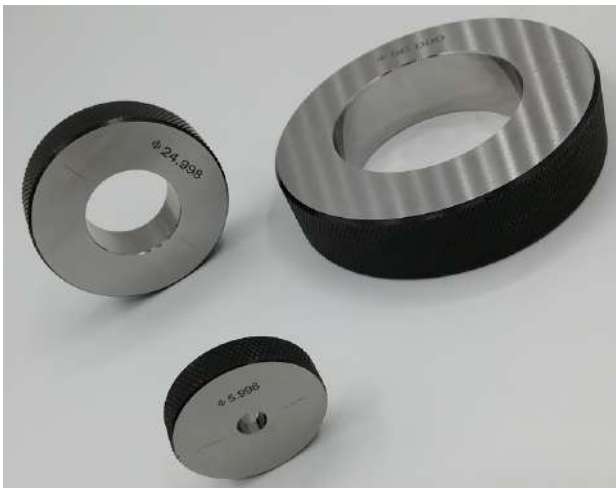
Model: PR-ST



- for specific measuring depths and for a higher measuring certainty.

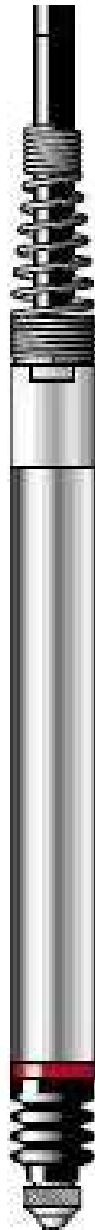


Setting Gauge



Setting ring gauges for setting gauges to zero our OD plug gauges, nominal sizes from 1.000 to 400.000 mm DIN 2250-C setting rings available.

DIAL GAGES/DIGITAL GAGES OPTIONS



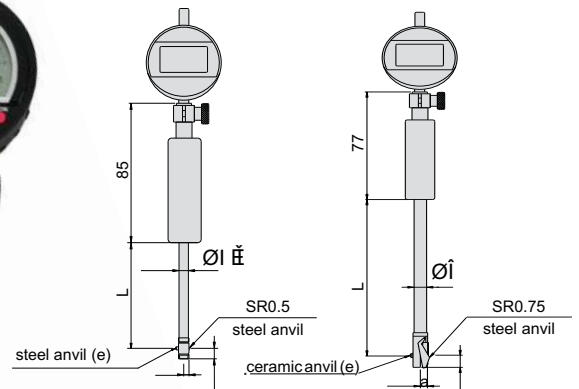
ELECTRONIC DIGITAL BORE GAGE

FEATURES:

- Digital indicator **P5122-212**: range 0-10mm/0-0.5" resolution 0.002mm rotary face, digit/analog display, auto power off, SPC data output specially designed for bore gage
- Ceramic contact moving tip and anvils
- Insert type anvils for bore gages over 35mm
- Packed in plastic case or wooden box

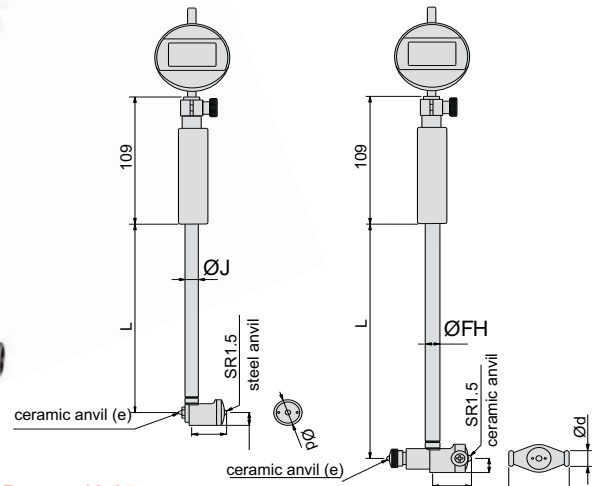
Unit: mm

Model No.	Range mm/in	∅ Depth
P5200-10	6-10mm	40mm
P5200-18	10-18mm	105mm
P5200-35	18-35mm	150mm
P5200-50	35-50mm	150mm
P5200-100	50-100mm	150mm
P5200-160	50-160mm	150mm
P5200-250	160-250mm	250mm
P5200-450	250-450mm	250mm
P5200-800	400-800mm	400mm
P5200-0.4	0.24-0.4"	40mm
P5200-0.7	0.4-0.7"	105mm
P5200-1.5	0.7-1.5"	150mm
P5200-2.4	1.4-2.4"	150mm
P5200-4.0	2-4"	150mm
P5200-6.0	2-6"	150mm
P5200-10.0	6-10"	250mm
P5200-16.0	10-16"	250mm



Range: 6-10mm

Range: 10-18mm



Range: 18-35mm

Range: 35-450mm

ELECTRONIC DIGITAL BORE GAGE

FEATURES:

- Digital indicator **P5312-212**: range 0-10mm/0-0.5" resolution 0.001mm rotary face, digit/analog display, auto power off, SPC data output specially designed for bore gage
- Ceramic contact moving tip and anvils
- Insert type anvils for bore gages over 35mm
- Packed in plastic case or wooden box

Unit: mm

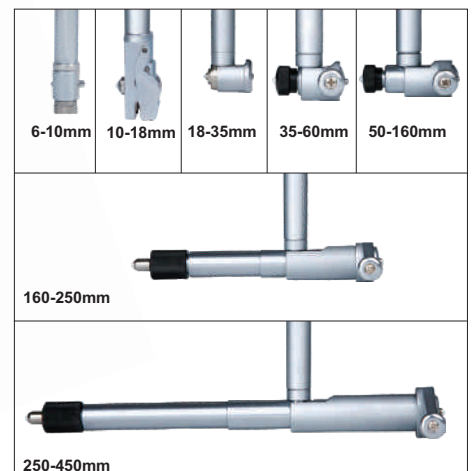
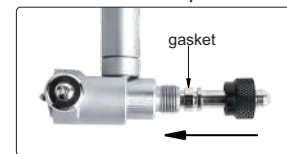
Model No.	Range mm/in	∅ Depth
P5207-10	6-10mm	40mm
P5207-18	10-18mm	105mm
P5207-35	18-35mm	150mm
P5207-50	35-50mm	150mm
P5207-100	50-100mm	150mm
P5207-160	50-160mm	150mm
P5207-250	160-250mm	250mm
P5207-450	250-450mm	250mm
P5207-800	400-800mm	400mm
P5207-0.4	0.24-0.4"	40mm
P5207-0.7	0.4-0.7"	105mm
P5207-1.5	0.7-1.5"	150mm
P5207-2.4	1.4-2.4"	150mm
P5207-4.0	2-4"	150mm
P5207-6.0	2-6"	150mm
P5207-10.0	6-10"	250mm
P5207-16.0	10-16"	250mm



Measuring tips(included) gasket(included)



Install tips



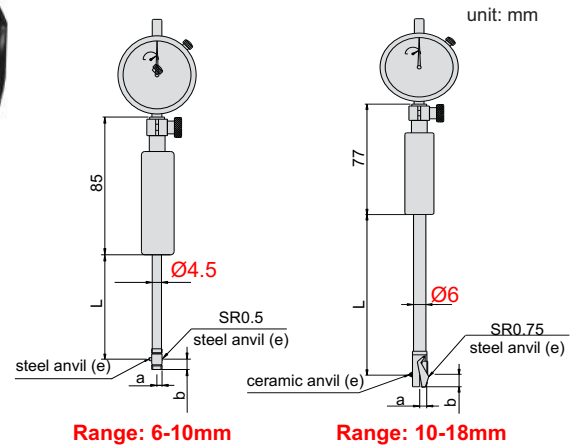
PRECISION DIAL BORE GAGE

FEATURES:

- Dial indicator graduation: metric 0.001mm, imperial 0.0001"
- Dial indicator range: metric 0-1mm **P5034-01**
- Dial indicator with protection cover
- Ceramic contact moving tip and anvils
- Packed in plastic case or wooden

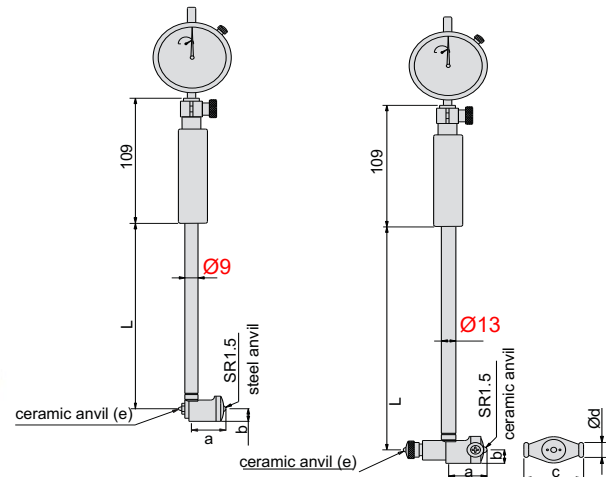
Unit: mm

Model No.	Range mm/in	L Depth
P5201-10	6-10mm	40mm
P5201-18	10-18mm	105mm
P5201-35	18-35mm	150mm
P5201-50	35-50mm	150mm
P5201-100	50-100mm	150mm
P5201-160	50-160mm	150mm
P5201-250	160-250mm	250mm
P5201-450	250-450mm	250mm
P5201-800	400-800mm	400mm
P5201-0.4	0.24-0.4"	40mm
P5201-0.7	0.4-0.7"	105mm
P5201-1.5	0.7-1.5"	150mm
P5201-2.4	1.4-2.4"	150mm
P5201-4.0	2-4"	150mm
P5201-6.0	2-6"	150mm
P5201-10.0	6-10"	250mm
P5201-16.0	10-16"	250mm



Range: 6-10mm

Range: 10-18mm



Range: 18-35mm

Range: 35-800mm

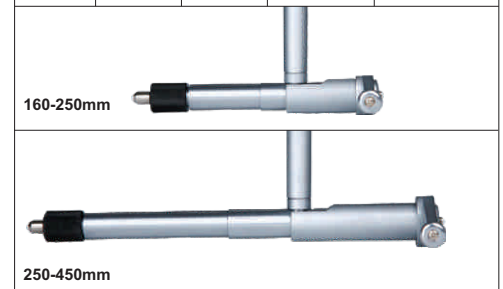
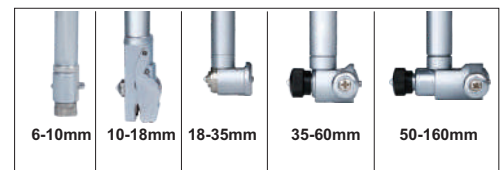
DIAL BORE GAGE

FEATURES:

- Dial indicator graduation: metric 0.01mm, imperial 0.0005" (optional: 0.001")
- Dial indicator range: Metric 0-3mm(6-10,10-18mm) 0-10mm **P5106-10E**(18-800mm)
- Dial indicator with protection cover
- Ceramic contact moving tip and anvils
- Packed in plastic case or wooden box

Unit: mm

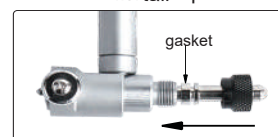
Model No.	Range mm/in	L Depth
P5202-10	6-10mm	40mm
P5202-18	10-18mm	105mm
P5202-35	18-35mm	150mm
P5202-50	35-50mm	150mm
P5202-100	50-100mm	150mm
P5202-160	50-160mm	150mm
P5202-250	160-250mm	250mm
P5202-450	250-450mm	250mm
P5202-650	450-650mm	400mm
P5202-800	400-800mm	400mm
P5202-0.4	0.24-0.4"	4"
P5202-0.7	0.4-0.7"	6"
P5202-1.5	0.7-1.5"	6"
P5202-2.4	1.4-2.4"	6"
P5202-4.0	2-4"	6"
P5202-6.0	2-6"	6"
P5202-10.0	6-10"	10"
P5202-16.0	10-16"	10"



Measuring tips(included) gasket(included)



Install tips



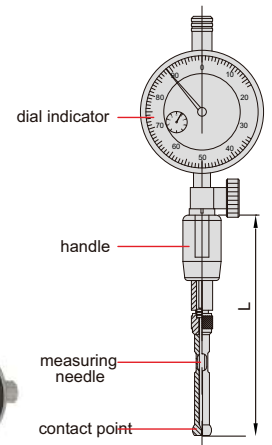
DIAL BORE GAGE

FEATURES:

- Dial indicator graduation: metric 0.01mm, imperial 0.0005" (optional: 0.001")
- Dial indicator range: 0-10mm Model P5016-10E
- Ceramic contact moving tip and anvils
- Screw type anvils
- Packed in plastic case or wooden box

Unit: mm

Model No.	Range mm/in	Depth
P5203-35	18-35mm	105mm
P5203-50	35-50mm	150mm
P5203-100	50-100mm	150mm
P5203-160	50-160mm	150mm
P5203-250-1	100-250mm	250mm
P5203-250-2	160-250mm	250mm
P5203-450	250-450mm	400mm
P5203-1.5	0.7-1.5"	5"
P5203-2.4	1.4-2.4"	6"
P5203-4.0	2-4"	6"
P5203-6.0	2-6"	6"
P5203-10.0	6-10"	10"
P5203-16.0	10-16"	10"



SPLIT TYPE DIAL BORE GAGE

FEATURES:

- Measure small hole diameter
- Packed in plastic case



Model No.	Range mm/in	Dial gauge	Graduation	Depth(mm)	L Length mm
P5230-4	3-4mm	0-3mm	0.01mm	20	76
P5230-6	4-6mm	0-3mm	0.01mm	30	96
P5230-10	6-10mm	0-3mm	0.01mm	40	140
P5230-18	10-18mm	0-3mm	0.01mm	130	200

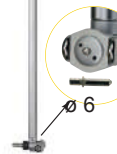
Unit: mm

DIAL BORE GAUGE SETS

FEATURES:

- Internal measuring instruments as set
- Mount satin chrome finished
- With dial indicator, reading 0.01 mm
- Repeat accuracy 0.005 mm
- In aluminum case

P5202-18160



DIGITAL BORE GAUGE SETS

FEATURES:

- Internal measuring instruments as set
- Mount satin chrome finished
- With digital indicator **P5122-212**
- In aluminum case

P5200-18160



Model No.	Range mm/in	Inhalt content	Dial indicator or Digital indicator
P5202-18160	18-160mm	18 - 35 mm, 35 - 50 mm, 50 - 160 mm	Dial indicator, 10 mm x 0,01 mm
P5200-18160	18-160mm	18 - 35 mm, 35 - 50 mm, 50 - 160 mm	Digital indicator, 6.5 mm x 0.002 mm

DIAL/DIGITAL BORE GAUGE WITH LONG HANDLE

FEATURES:

- With extra long handle
- Mount satin chrome finished
- With dial or digital indicator
- Reading 0.01mm or 0.002mm
- In wooden case



P5208-424/425/426/427 DIAL BORE GAGE 0.01mm



P5208-524/525/526/527 DIGITAL BORE GAGE 0.002mm



P5208-421

Unit: mm

Model No.	Range mm/in	Depth mm	Measuring tips	∅ Measuring tips	Shim ring mm	Extensions mm
P5208-424	50-160mm	500mm	12 x (P5208-054BZ1)	∅ 6	0,5/1/2/3 (P5208-054PS)	50mm
P5208-425	50-160mm	1000mm	12 x (P5208-054BZ1)	∅ 6	0,5/1/2/3 (P5208-054PS)	50mm
P5208-524	50-160mm	500mm	12 x (P5208-054BZ1)	∅ 6	0,5/1/2/3 (P5208-054PS)	50mm
P5208-525	50-160mm	1000mm	12 x (P5208-054BZ1)	∅ 6	0,5/1/2/3 (P5208-054PS)	50mm
P5208-421	Extension for measuring depth (only for P5208-424/425/524/525)					1000mm
P5208-426	160-250mm	500mm	5 x (P5208-026BZ)	∅ 8	0,5/1/2/3/6 (P5208-026PS)	50mm
P5208-526	160-250mm	500mm	5 x (P5208-026BZ)	∅ 8	0,5/1/2/3/6 (P5208-026PS)	50mm
P5208-427	250-450mm	1000mm	5 x (P5208-026BZ)	∅ 8	0,5/1/2/3/6 (P5208-026PS)	50+100mm
P5208-527	250-450mm	1000mm	5 x (P5208-026BZ)	∅ 8	0,5/1/2/3/6 (P5208-026PS)	50+100mm
P5208-420	Extension for measuring depth (only for P5208-426/526/427/527)					1000mm

Spare Parts For Dial/Digital Bore Gauge

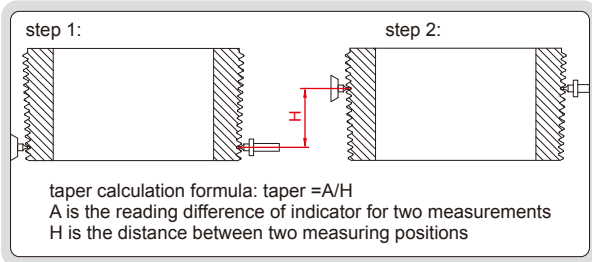
Model No.	Descriptions	PCS	∅(mm)	Extensions and Measuring tips
P5208-018BZ	Measuring tips, 9pcs/set	9	∅ 2	
P5208-019BZ	Measuring tips 9pcs/set	9	∅ 3,5 M 3,5	
P5208-019PS	Shim ring (0.5 mm)	1	∅ 5,3	
P5208-021BZ	Measuring tips 9pcs/set	9	∅ 4,5 M 4	
P5208-021PS	Shim ring set (0.5, 1.0 mm)	2	∅ 6,3	
P5208-052BZ1	Measuring tips for range 35 - 50 mm	4	∅ 6	<p>P5208-052BZ2</p>
P5208-052BZ2	Measuring tips for range 50 - 70 mm	4	∅ 6	
P5208-054BZ1	Measuring tips for range 50 - 100 mm	12	∅ 6	<p>P5208-054BZ1 P5208-054BZ2</p>
P5208-054BZ2	Measuring tips for range 160 - 180 mm	4	∅ 6	
P5208-054V	55 mm extension	1	∅ 14 M 10	
P5208-054PS	Shim ring set (0,5, 1, 2, 3, mm)	4	∅ 8,5	
P5208-026BZ	Measuring tips 5 pcs/set	5	∅ 8	
P5208-026V1	50 mm extension	1	∅ 18 M 14	
P5208-026V2	100 mm extension	1	∅ 18 M 14	
P5208-026PS	Shim ring set (0.5, 1, 2, 3, 6 mm)	5	∅ 11	
P5208-027BZ	Measuring tips for range 100-270 mm)	4	∅ 7,2 M 8	

DIGITAL EXTERNAL THREAD TAPER GAGE

FEATURES:

- Measure the taper of external thread
- Digital indicator stroke: 12.7mm/0.5"
- Optional accessory: data output cable , ball points API-A ...

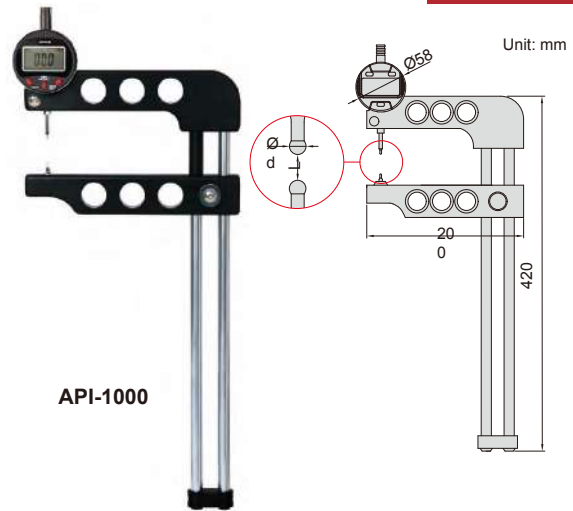
principle of measurement



unit:mm

Model No.	Range (L)	Resolution	Accuracy
API-1000	0-10"/0-254mm	0.0005"/0.01mm	0.03mm

MEET INTERNATIONAL STANDARD API 5B



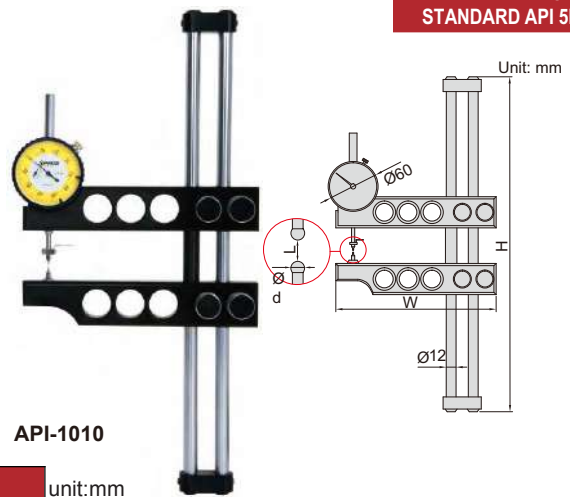
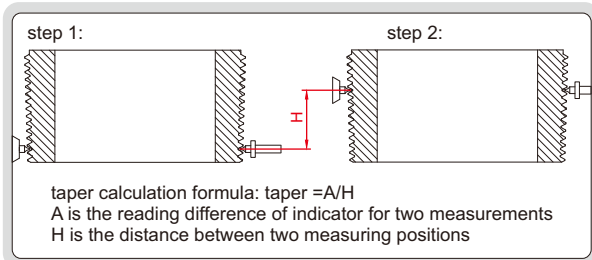
API-1000

EXTERNAL THREAD TAPER GAGE

FEATURES:

- Measure the taper of external thread
- Dial indicator stroke: 0.5"
- Dial indicator graduation: 0.001"
- Optional accessory: ball points API-A ...

principle of measurement



API-1010

Model No.	Range (L)	Accuracy	H	W
API-1010	0-10"/0-254mm	0.0015"	400mm	200mm
API-1020	1-4 1/2"/25.4-114.3mm	0.0015"	278mm	178mm
API-1030	8-16"/203.2-406.4mm	0.0015"	600mm	260mm
API-1040	8-20"/203.2-508mm	0.0015"	680mm	260mm

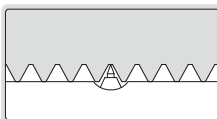
MEET INTERNATIONAL STANDARD API 5B

INTERNAL THREAD HEIGHT GAGE

FEATURES:

- Measure the height of internal thread with nominal diameter less than 5 1/2" (139.7mm)
- Optional accessory: thread height standard blocks API-120~150 ...

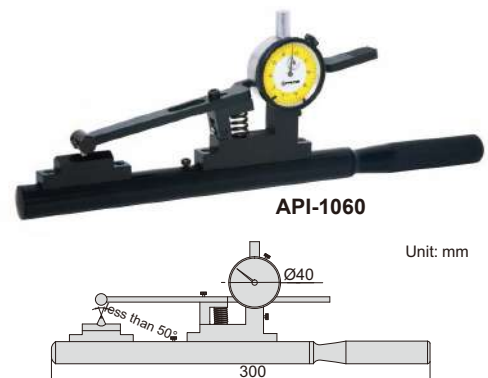
Application



unit:mm

Model No.	Range	Dial indicator graduation	Accuracy
API-1050	0-3.5mm	0.01mm	0.02mm
API-1060	0-1/4"	0.0005"	0.0008"

MEET INTERNATIONAL STANDARD API 5B



API-1060

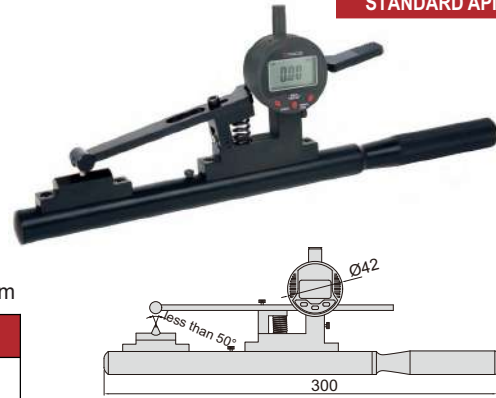
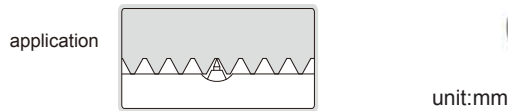
Unit: mm

DIGITAL INTERNAL THREAD HEIGHT GAGE

MEET INTERNATIONAL STANDARD API 5B

FEATURES:

- Measure the height of internal thread with nominal diameter less than 5 1/2" (139.7mm)
- Optional accessory: data output cable, thread height standard blocks **API-120~150**



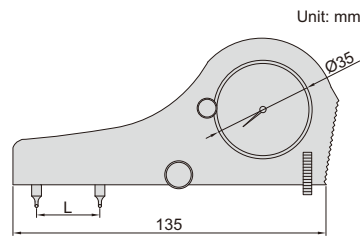
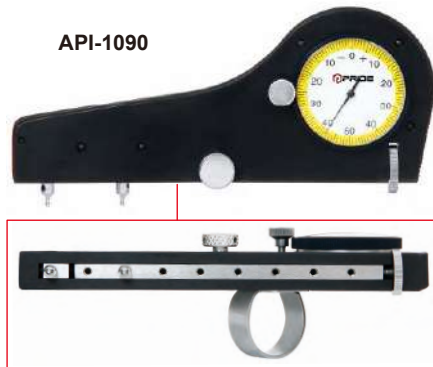
Model No.	Range	Resolution	Accuracy
API-1070	0-0.135"/0-3.5mm	0.005"/0.01mm	0.02mm

INTERNAL THREAD LEAD GAGE

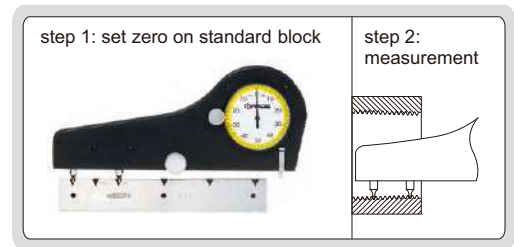
MEET INTERNATIONAL STANDARD API 5B

FEATURES:

- Measure the pitch of internal thread with nominal diameter larger than 1 1/2" (38.1mm) and less than 5 1/2" (139.7mm)
- Optional accessory: ball points **API-A**, standard pitch blocks **API-B180~B200**



application



unit:mm

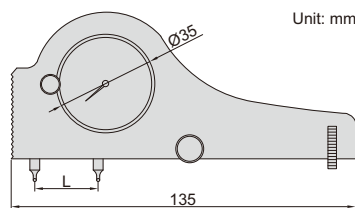
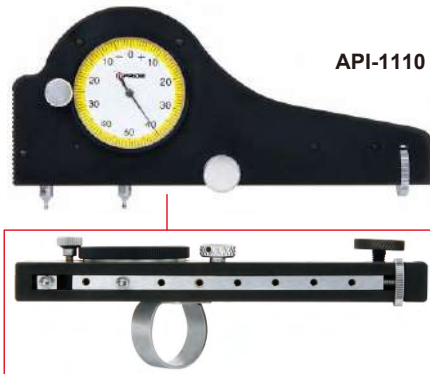
Model No.	Range (L)	Dial indicator stroke	Dial indicator graduation	Accuracy
API-1080	0.5-4"/12.7-101.6mm	0.5mm	0.01mm	0.02mm
API-1090	0.5-4"/12.7-101.6mm	0.03"	0.0005"	0.0008"

EXTERNAL THREAD LEAD GAGE

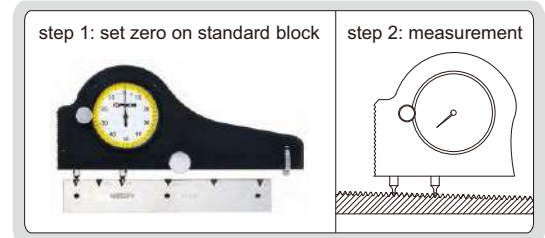
MEET INTERNATIONAL STANDARD API 5B

FEATURES:

- Measure the pitch of external thread and internal thread with nominal diameter larger than 5 1/2" (139.7mm)
- Optional accessory: ball points **API-A**, standard pitch blocks **API-B180~B200**



application



unit:mm

Model No.	Range (L)	Dial indicator stroke	Dial indicator graduation	Accuracy
API-1100	0.5-4"/12.7-101.6mm	0.5mm	0.01mm	0.02mm
API-1110	0.5-4"/12.7-101.6mm	0.03"	0.0005"	0.0008"

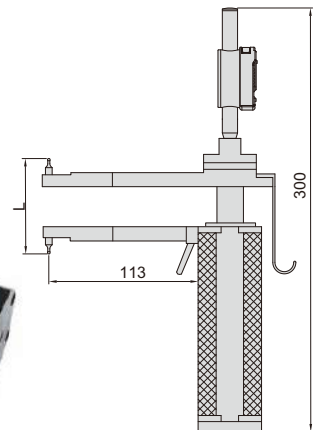
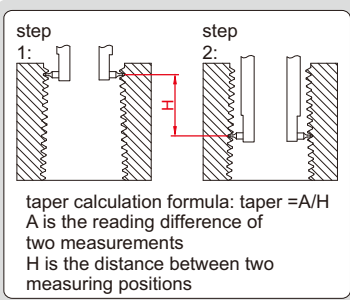
DIGITAL INTERNAL THREAD TAPER GAGE

FEATURES:

- Measure the taper of internal thread
- Digital indicator stroke: 25.4mm/1"
- Optional accessory: ball points **API-A**

MEET INTERNATIONAL STANDARD API 5B

principle of measurement



Model No.	Range (L)	Resolution	Accuracy	unit:mm
API-1120	1-6"/25.4-152.4mm	0.0005"/0.01mm	0.04mm	

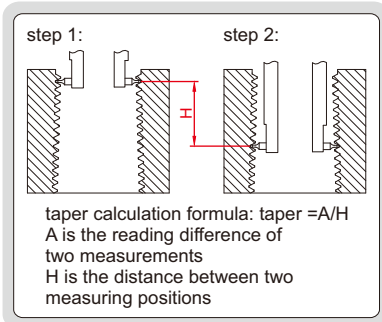
INTERNAL THREAD TAPER GAGE

FEATURES:

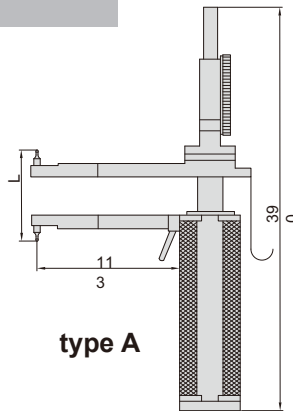
- Measure the taper of internal thread
- Dial indicator stroke: 1"
- Dial indicator graduation: 0.001"
- Optional accessory: ball points **API-A**

MEET INTERNATIONAL STANDARD API 5B

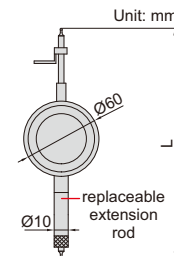
principle of measurement



API-1130



type A

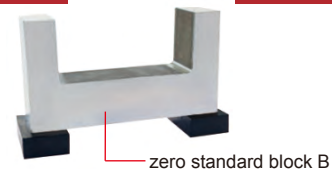


type B

Model No.	Range (L)	Accuracy	Type	unit:mm
API-1130	1-6"/25.4-152.4mm	0.0015"	A	
API-1140	5 1/2-16"/139.7-406.4mm	0.0015"	B	

HEIGHT STANDARD AND ZERO STANDARD BLOCK

CAN BE CUSTOMERIZED



Model No.	Remark	unit:mm
API-B100	including height standard and zero standard block A (without taper)	
API-B110	including height standard and zero standard block B (with taper)	

* Can be customized according to workpieces

PRECISION DIGITAL THICKNESS GAGE

Precision digital thickness gauge allows the user to take quick, accurate measurements down to one micron. This gauge is ideal for measuring paper, card, wire or any sheet material.

FEATURES:

- Ceramic spindle tip and anvil
- Buttons: in/mm, zero/on, ABS/PRESET
- Battery CR2032 3V, automatic power off
- RS232 data output
- SPC cable and software optional



Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy mm	Throat depth mm
P5060-10A	0-10mm/0-0.5"	0.01mm/0.0005"	20µm	30mm
P5060-10B	0-10mm/0-0.5"	0.001mm/0.00005"	5µm	30mm

PRECISION DIGITAL THICKNESS GAGE

Precision digital thickness gauge allows the user to take quick, accurate measurements down to one micron. This gauge is ideal for measuring paper, card, wire or any sheet material.

FEATURES:

- Ceramic spindle tip and anvil
- Buttons: in/mm, zero/on, ABS/PRESET
- Battery CR2032 3V, automatic power off
- RS232 data output
- SPC cable and software optional



Unit: mm

Model No.	Range mm/in	Resolution mm/in	Accuracy mm	Throat depth mm
P5061-10A	0-10mm/0-0.5"	0.01mm/0.0005"	20µm	120mm
P5061-10B	0-10mm/0-0.5"	0.001mm/0.00005"	5µm	120mm

DIGITAL THICKNESS GAGE



P5060-12BC



P5061-12BS

Features

- Steel and Ceramic spindle tip and anvil, anvils Ø10mm
- Buttons: in/mm, zero/on
- Battery 1.5V LR44, automatic power off

Model No	Range mm/in	Resolution mm/in	Accuracy	Throat depth mm	Material
P5060-12AC	0-12.7mm/0-0.5"	0.01mm/0.0005"	20µm	30	Ceramic
P5060-12BC	0-12.7mm/0-0.5"	0.001mm/0.00005"	5µm	30	Ceramic
P5061-12AS	0-12.7mm/0-0.5"	0.01mm/0.0005"	20µm	120	Ceramic
P5061-12BS	0-12.7mm/0-0.5"	0.001mm/0.00005"	5µm	120	Ceramic

DIGITAL THICKNESS GAGE

Features

- Steel and Ceramic spindle tip and anvil, anvils Ø10mm
- Buttons: in/mm, zero/on
- Battery 1.5V LR44, automatic power off



Model No	Range mm/in	Resolution mm/in	Accuracy	Throat XYdH	Material
P5055-25A	0-25mm/0-1"	0.01mm/0.0005"	20µm	30mm	Steel
P5055-25B	0-25mm/0-1"	0.001mm/0.00005"	5µm	30mm	Steel
P5055-25C	0-25mm/0-1"	0.01mm/0.0005"	20µm	30mm	Ceramic
P5055-25D	0-25mm/0-1"	0.001mm/0.00005"	5µm	30mm	Ceramic

Quick-Mini Digital Thickness Gauge P5062-12A

FEATURES:

- Range: 12.7mm (0.5")
- Resolution: 0.01mm or .0005"/0.01mm
- Accuracy: 0.02mm (0.001")
- Measuring force less than 2N
- Supplied in fitted plastic case
- Battery: SR44 (1 pc.)
- Zero-setting, Power ON/OFF, Inch/mm conversion



Quick-Mini Digital Thickness Gauge P5062-25

FEATURES:

- Range: 0-25mm (1")
- Resolution: 0.01mm (0.0005")
- Accuracy: 0.02mm (0.001")
- Zero setting at any point
- mm/inch conversion
- Non-rotating spindle
- Power: 1.5V SR44 Battery



POCKET DIGITAL THICKNESS GAGE P5062-12C

FEATURES:

- Range: 0-25mm (1")
- Resolution: 0.01mm (0.0005")
- Accuracy: 0.05mm
- Zero setting at any point
- mm/inch conversion
- Power: 3V CR2302 Battery
- Weight: 80g



Carbon Fibre Thickness Gauge P5062-12B

FEATURES:

- Range: 12.7mm (0.5") Resolution: 0.1mm
- Accuracy: ±0.2mm Weight: 50g
- mm/inch display
- Zero at any point
- Power: 1.5V SR44 Battery



DIAL THICKNESS GAGE

FEATURES:

- Range: 0-10mm
- Graduations: 0.01mm
- Accuracy: +/- 0.015mm
- Measuring Force: 1.4N or less
- Throat depth: 30mm



Unit: mm

Model No.	Range mm/in	Accuracy mm	Contact point	Remarks
P5040-10A	0-10mm	+/- 0.015mm		Type A: Standard type Standard, ceramic point/anvil
P5040-10B	0-10mm	+/- 0.015mm		Type B: For tube thickness

DIAL THICKNESS GAGE

FEATURES:

- Range: 0-20mm
- Graduations: 0.01mm
- Accuracy: +/- 0.022mm
- Measuring Force: 2.0N or less
- Remarks: Deep Throat
- Spindle/Anvil Material: Ceramic



Unit: mm

Model No.	Range mm/in	Accuracy mm	Contact point	Remarks
P5041-20A	0-20mm	+/- 0.022mm		Type A: Standard type
P5041-20B	0-20mm	+/- 0.022mm		Type B: Deep throat type

POCKET DIAL THICKNESS GAGE

FEATURES:

- Pocket Thickness Gages with thumb slide for tight spaces
- Can easily be adjusted to zero by turning the dial bezel.
- Frame of light, rust resistant aluminum. Measuring faces hardened, ground, lapped for accuracy. Spindle: hardened stainless steel.
- Length 63.5mm/2.5"; height 48.00mm/1.9"; thickness 13.6mm/0.535".
- Contact is flat with a .230"/6mm diameter
- Under two ounces and fits in a shirt pocket.
- Fraction to metric conversion chart on rear of unit.



unit:mm

Model No.	Range mm	Graduation mm	Throat depth mm
P5046-10	0-10.0mm	0.01mm	13mm
P5046-0.5	0-0.5in	0.001in	13mm

DIAL SHEET THICKNESS GAGE

This sheet gauges can measure wide sheets since the throat depth of this gauges having 200,260,300,400, 500,600,700mm

FEATURES:

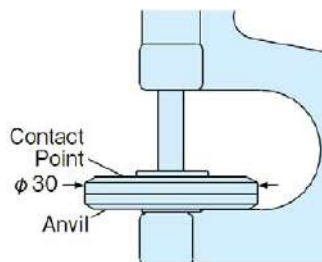
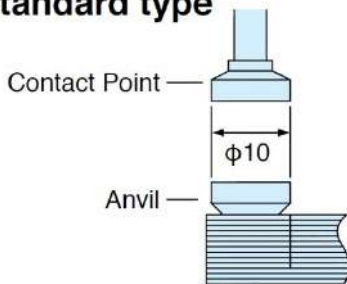
- Contact point standard type A steel.
- Customers can choose our contact and anvil different shates optional



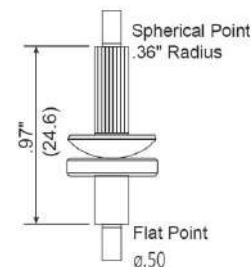
unit:mm

Model No.	Range mm	Graduation mm	Throat depth	Accuracy mm	Contact point dia.	Measuring force less than N
P5048-20-200	0-20mm	0.01mm	200mm	±0 .022mm	10mm	2.0N
P5048-20-260	0-20mm	0.01mm	260mm	±0 .022mm	10mm	2.0N
P5048-20-300	0-20mm	0.01mm	300mm	±0 .022mm	20mm	3.0N
P5048-30-400	0-30mm	0.01mm	400mm	±0 .100mm	20mm	3.0N
P5048-50-500	0-50mm	0.01mm	500mm	±0 .100mm	30mm	3.0N
P5048-50-600	0-50mm	0.01mm	600mm	±0 .100mm	30mm	3.0N
P5048-50-700	0-50mm	0.01mm	700mm	±0 .100mm	30mm	3.0N

Standard type



Optional 1



Optional 2

PRECISION DIAL THICKNESS GAGE

FEATURES:

- To measure the thickness of foils, card, paper, with and without coating. Indispensable for scrubbing resistance tests on Leneta foils and for colour and opacity measurements on contrast cards.
- Measuring range 0-1mm, reading 100mm
- Depth throat:30mm
- Ceramic contact flat Ø10mm
- Dial reading 0-100/0-100
- Bezel Ø58mm



unit:mm

Model No.	Range mm	Resolution mm	Throat depth mm
P5049-1A	0-1mm	0.001mm	10mm
P5049-5A	0-5mm	0.001mm	10mm
P5049-0.05A	0-0.05"	0.0001"mm	0.5"

PRECISION DIAL THICKNESS GAGE

FEATURES:

- Measuring range 0-1mm, reading 0.001mm
- Stainless steel tips diameter Ø 6mm
- Bezel diameter Ø 58mm
- Aluminum body
- Measuring depth 30mm
- Packed in plastic box
- Dial reading 0-100



unit:mm

Model No.	Range mm	Resolution mm	Throat depth mm
P5049-1B	0-1mm	0.001mm	10mm
P5049-5B	0-5mm	0.001mm	15mm
P5049-0.05B	0-0.05"	0.0001"	0.5"

PEARL GAGE WITH LOCK, 0-20 MM

FEATURES:

- It is accurate and easy to use
- It zeros out when closed, and opens automatically
- Excellent for soft stones or pearls where gentle force is require
- Accurate to +/-0.05 mm
- Maximum opening 20mm



P5050A

P5050B

unit:mm

Model No.	Range mm	Resolution mm
P5050A	0-20mm	0.1mm
P5050B	0-20mm	0.1mm

DIAL PIPE THICKNESS GAGE

FEATURES:

- Range: 0-10mm
- Graduations: 0.01mm
- Accuracy: +/-0.015mm
- Measuring Force: 2.5N or less
- Standard spindle/Anvil Material: Ceramic

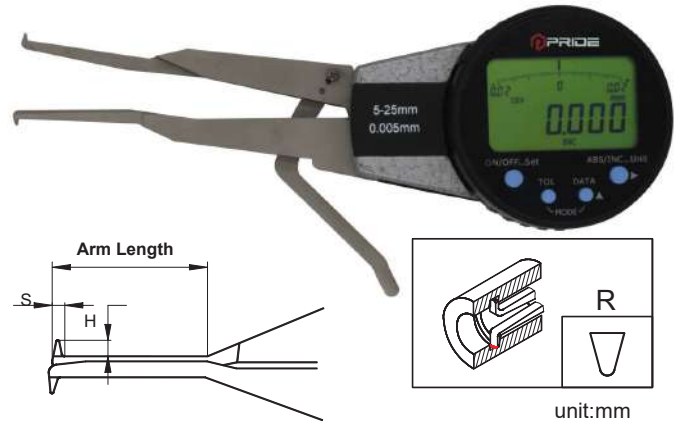


Model No.	Range	Graduation	Remarks
P5042-10B	0-10 mm	0.01mm	Ceramic contact
P5044-10	0-10mm	0.01mm	Steel contact

DIGITAL INSIDE CALIPER GAGE

FEATURES:

- Resolution: 0.005mm/0.0002"
- Rotary display, with digit and analog display
- RS232 output port, auto power off
- Functions: data set, absolute and relative measurement, mm/inch, max/min, data holding, tolerance measurement
- Display can be rotated 170°
- Accuracy: $\pm 0.03\text{mm}$
- Packed in aluminum box

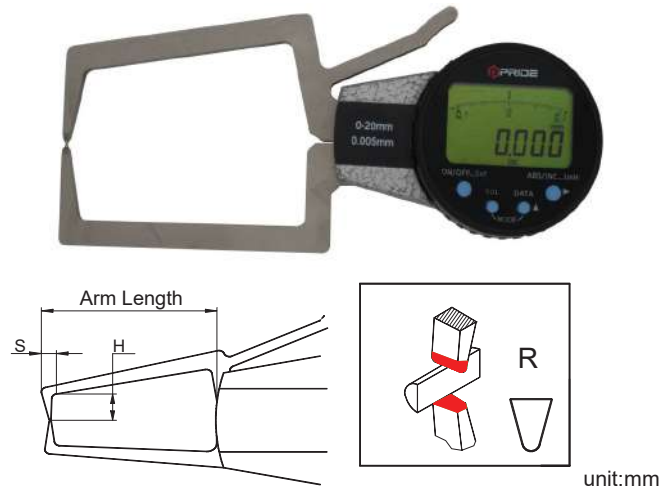


Model No.	Range mm	Arm length	H Tip height	S	Travel	Tip radius
P5098-15A	5-15mm/0.2-0.6"	20mm	1.5mm	1.0mm	10mm	0.3mm
P5098-20A	10-20mm/0.4-0.8"	25mm	3.0mm	1.5mm	10mm	0.3mm
P5098-30A	20-30mm/0.8-1.2"	30mm	6.5mm	2.0mm	10mm	0.5mm
P5098-40A	30-40mm/1.2-1.6"	30mm	9.0mm	2.5mm	10mm	0.5mm
P5098-50A	40-50mm/1.6-2.0"	30mm	9.0mm	2.5mm	10mm	0.5mm
Model No.	Range mm	Arm length	H Tip height	S	Travel	Tip radius
P5099-25A	5-25mm/0.2-1.0"	35mm	1.5mm	1.0mm	20mm	0.3mm
P5099-30A	10-30mm/0.4-1.2"	55mm	3.5mm	2.0mm	20mm	0.5mm
P5099-40A	20-40mm/0.8-1.6"	80mm	6.5mm	3.0mm	20mm	0.5mm
P5099-50A	30-50mm/1.2-2.0"	80mm	8.5mm	3.0mm	20mm	0.5mm
P5099-60A	40-60mm/1.6-2.4"	80mm	8.5mm	3.0mm	20mm	0.5mm

DIGITAL OUTSIDE CALIPER GAGE

FEATURES:

- Resolution: 0.005mm/0.0002"
- Rotary display, with digit and analog display
- RS232 output port, auto power off
- Functions: data set, absolute and relative measurement, mm/inch, max/min, data holding, tolerance measurement
- Display can be rotated 170°
- Accuracy: $\pm 0.03\text{mm}$
- Packed in aluminum box

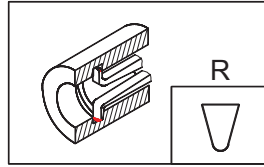


Model No.	Range mm	Arm length	H Tip height	S	Travel	Tip radius
P5100-10A	0-10mm/0-0.4"	40mm	8mm	3mm	10mm	0.5mm
P5100-20A	10-20mm/0.4-0.8"	40mm	8mm	3mm	10mm	0.5mm
P5100-30A	20-30mm/0.8-1.2"	40mm	8mm	3mm	10mm	0.5mm
P5100-40A	30-40mm/1.2-1.6"	40mm	8mm	3mm	10mm	0.5mm
P5100-50A	40-50mm/1.6-2.0"	40mm	8mm	3mm	10mm	0.5mm
Model No.	Range mm	Arm length	H Tip height	S	Travel	Tip radius
P5101-20A	0-20mm/0-0.8"	80mm	25mm	6.5mm	20mm	0.75mm
P5101-30A	10-30mm/0.4-1.2"	80mm	25mm	6.5mm	20mm	0.75mm
P5101-40A	20-40mm/0.8-1.6"	80mm	25mm	6.5mm	20mm	0.75mm
P5101-50A	30-50mm/1.2-2.0"	80mm	25mm	6.5mm	20mm	0.75mm
P5101-60A	40-60mm/1.6-2.4"	80mm	25mm	6.5mm	20mm	0.75mm

DIAL INSIDE CALIPER GAGE

FEATURES:

- Graduation: metric 0.01mm, imperial 0.0005"
- Accuracy: $\pm 0.03\text{mm}$
- To measure grooves and other hard-to-read outside dimension
- Packed in aluminum



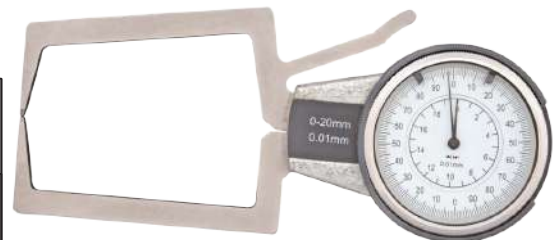
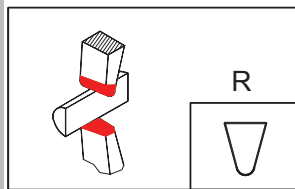
unit:mm

Model No.	Range mm	Arm length	Tip height	Travel	Tip radius
P5092-15A	5-15mm	20mm	1.5mm	10mm	0.3mm
P5092-20A	10-20mm	25mm	3.0mm	10mm	0.3mm
P5092-30A	20-30mm	30mm	6.5mm	10mm	0.5mm
P5092-40A	30-40mm	30mm	9.0mm	10mm	0.5mm
P5092-50A	40-50mm	30mm	9.0mm	10mm	0.5mm
Model No.	Range mm	Arm length	Tip height	Travel	Tip radius
P5093-25A	5-25mm	35mm	1.5mm	20mm	0.3mm
P5093-30A	10-30mm	55mm	3.5mm	20mm	0.5mm
P5093-40A	20-40mm	80mm	6.5mm	20mm	0.5mm
P5093-50A	30-50mm	80mm	8.5mm	20mm	0.5mm
P5093-60A	40-60mm	80mm	8.5mm	20mm	0.5mm
Model No.	Range mm	Arm length	Tip height	Travel	Tip radius
P5092-0.6A	0.2-0.6"	0.787"	0.059"	10mm	0.012"
P5092-0.8A	0.4-0.8"	0.984"	0.118"	10mm	0.012"
P5092-1.2A	0.8-1.2"	1.181"	0.256"	10mm	0.02"
P5092-1.6A	1.2-1.6"	1.181"	0.354"	10mm	0.02"
P5092-2.0A	1.6-2.0"	1.181"	0.354"	10mm	0.02"
Model No.	Range mm	Arm length	Tip height	Travel	Tip radius
P5093-1.0A	0.2-1.0"	1.378"	0.059"	20mm	0.012"
P5093-1.2A	0.4-1.2"	2.165"	0.138"	20mm	0.02"
P5093-1.6A	0.8-1.6"	3.150"	0.256"	20mm	0.02"
P5093-2.0A	1.2-2.0"	3.150"	0.335"	20mm	0.02"
P5093-2.4A	1.6-2.4"	3.150"	0.335"	20mm	0.02"

DIAL OUTSIDE CALIPER GAGE

FEATURES:

- Graduation: metric 0.01mm, imperial 0.0005"
- Accuracy: $\pm 0.03\text{mm}$
- To measure grooves and other hard-to-read inside dimension
- Packed in aluminum box



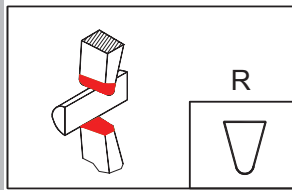
unit:mm

Model No.	Range mm	Arm length	Tip height	Travel	Tip radius
P5094-10A	0-10mm	40mm	8mm	10mm	0.5mm
P5094-20A	10-20mm	40mm	8mm	10mm	0.5mm
P5094-30A	20-30mm	40mm	8mm	10mm	0.5mm
P5094-40A	30-40mm	40mm	8mm	10mm	0.5mm
P5094-50A	40-50mm	40mm	8mm	10mm	0.5mm
Model No.	Range mm	Arm length	Tip height	Travel	Tip radius
P5095-20A	0-20mm	80mm	25mm	20mm	0.75mm
P5095-30A	10-30mm	80mm	25mm	20mm	0.75mm
P5095-40A	20-40mm	80mm	25mm	20mm	0.75mm
P5095-50A	30-50mm	80mm	25mm	20mm	0.75mm
P5095-60A	40-60mm	80mm	25mm	20mm	0.75mm

DIAL OUTSIDE CALIPER GAGE

FEATURES:

- Graduation: metric 0.01mm, imperial 0.0005"
- Accuracy: $\pm 0.03\text{mm}$
- To measure grooves and other hard-to-read inside dimension
- Packed in aluminum



unit:mm

Model No.	Range mm	Arm length	Tip height	Travel	Tip radius
P5094-0.4A	0-0.4"	1.575"	0.315"	10mm	0.02"
P5094-0.8A	0.4-0.8"	1.575"	0.315"	10mm	0.02"
P5094-1.2A	0.8-1.2"	1.575"	0.315"	10mm	0.02"
P5094-1.6A	1.2-1.6"	1.575"	0.315"	10mm	0.02"
P5094-2.0A	1.6-2.0"	1.575"	0.315"	10mm	0.02"
Model No.	Range mm	Arm length	Tip height	Travel	Tip radius
P5095-0.8A	0-0.8"	3.150"	0.984"	20mm	0.03"
P5095-1.2A	0.4-1.2"	3.150"	0.984"	20mm	0.03"
P5095-1.6A	0.8-1.6"	3.150"	0.984"	20mm	0.03"
P5095-2.0A	1.2-2.0"	3.150"	0.984"	20mm	0.03"
P5095-2.4A	1.6-2.4"	3.150"	0.984"	20mm	0.03"

DIGITAL INSIDE CALIPER GAUGE

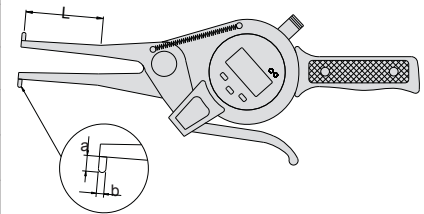
FEATURES:

- Measure the internal dimension
- Resolution: 0.01mm/0.0005"

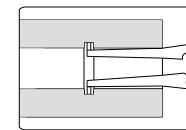


Unit: mm

Model No.	Range mm/in	Accuracy mm	a	b	L
P5096-35D1	15-35mm/0.6-1.4"	$\pm 0.04\text{mm}$	3	$\text{Ø}3$	50
P5096-35D2	15-35mm/0.6-1.4"	$\pm 0.04\text{mm}$	3	$\text{Ø}3$	200
P5096-55D1	35-55mm/1.4-2.2"	$\pm 0.04\text{mm}$	6	$\text{Ø}3$	80
P5096-55D2	35-55mm/1.4-2.2"	$\pm 0.04\text{mm}$	6	$\text{Ø}3$	250
P5096-75D1	55-75mm/2.2-3"	$\pm 0.04\text{mm}$	8	$\text{Ø}3$	90
P5096-75D2	55-75mm/2.2-3"	$\pm 0.04\text{mm}$	8	$\text{Ø}3$	250
P5096-95D1	75-95mm/3-3.8"	$\pm 0.04\text{mm}$	8	$\text{Ø}3$	100
P5096-95D2	75-95mm/3-3.8"	$\pm 0.04\text{mm}$	8	$\text{Ø}3$	250
P5096-115D1	95-115mm/3.8-4.6"	$\pm 0.04\text{mm}$	10	$\text{Ø}3.2$	120
P5096-115D2	95-115mm/3.8-4.6"	$\pm 0.04\text{mm}$	10	$\text{Ø}3.2$	250
P5096-135D1	115-135mm/4.6-5.4"	$\pm 0.04\text{mm}$	10	$\text{Ø}3.2$	120
P5096-135D2	115-135mm/4.6-5.4"	$\pm 0.04\text{mm}$	10	$\text{Ø}3.2$	250



Setting ring (optional)



DIGITAL EXTERNAL CALIPER GAUGE

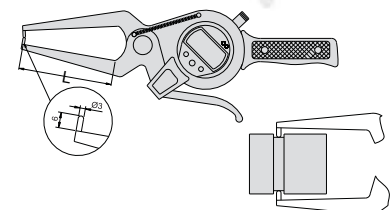
FEATURES:

- Measure the external dimension
- Resolution: 0.01mm/0.0005"



Unit: mm

Model No.	Range mm/in	Accuracy mm	L
P5097-20D	0-20mm/0-0.8"	$\pm 0.04\text{mm}$	60
P5097-40D	20-40mm/0.8-1.6"	$\pm 0.04\text{mm}$	60
P5097-60D	40-60mm/1.6-2.4"	$\pm 0.04\text{mm}$	55
P5097-80D	60-80mm/2.4-3.2"	$\pm 0.04\text{mm}$	55
P5097-100D	80-100mm/3.2-4"	$\pm 0.04\text{mm}$	55



DIAL INSIDE CALIPER GAUGE

FEATURES:

- Steel Body
- Graduation: metric 0.01mm, imperial 0.0005", 0.001"
- For inside measurements
- Peach shaped mechanical body.
- Adjustable steel dial ring
- Packed in wooden box



Model No.	Range mm	Arm length	Tip length x diameter	unit:mm
P5096-35	15-35mm	50mm	3x3mm	
P5096-55	35-55mm	80mm	6x3mm	
P5096-75	55-75mm	90mm	8x3mm	
P5096-95	75-95mm	100mm	8x3.2mm	
P5096-115	95-115mm	150mm	10x3.2mm	
P5096-135	115-135mm	150mm	10x3.2mm	
P5096-155	135-155mm	200mm	10x3.2mm	
P5096-175	155-175mm	200mm	10x3.2mm	
P5096-195	175-195mm	200mm	10x3.2mm	
P5096-215	195-215mm	200mm	10x3.2mm	
P5096-235	215-235mm	200mm	10x3.2mm	
P5096-255	235-255mm	200mm	10x3.2mm	
P5096-275	255-275mm	200mm	10x3.2mm	
P5096-295	275-295mm	200mm	10x3.2mm	
P5096-315	295-315mm	200mm	10x3.2mm	
P5096-335	315-335mm	200mm	10x3.2mm	
P5096-355	335-355mm	200mm	10x3.2mm	
P5096-375	355-375mm	200mm	10x3.2mm	
Model No.	Range mm	Arm length	Tip length x diameter	
P5096-1.4-1	0.6-1.4" / 0.0005"	1.9"	0.118x0.118"	
P5096-2.2-1	1.4-2.2" / 0.0005"	3.1"	0.236x0.118"	
P5096-3.0-1	2.2-3.0" / 0.0005"	3.1"	0.315x0.118"	
P5096-3.8-1	3.0-3.8" / 0.0005"	3.9"	0.315x0.118"	
P5096-1.1-2	0.6-1.4" / 0.001"	1.9"	0.118x0.118"	
P5096-2.2-2	1.4-2.2" / 0.001"	3.1"	0.236x0.118"	
P5096-3.0-2	2.2-3.0" / 0.001"	3.1"	0.315x0.118"	
P5096-3.8-2	3.0-3.8" / 0.001"	3.9"	0.315x0.118"	

DIAL OUTSIDE CALIPER GAGE

FEATURES:

- Steel Body
- Graduation: metric 0.01mm, imperial 0.0005", 0.001"
- For outside measurements
- Peach shaped mechanical body.
- Adjustable steel dial ring
- Packed in wooden box



Model No.	Range mm	Arm length	Tip length x diameter	unit:mm
P5097-20	0-20mm	60mm	6x3mm	
P5097-40	20-40mm	60mm	6x3mm	
P5097-60	40-60mm	55mm	6x3mm	
P5097-80	60-80mm	55mm	6x3mm	
P5097-100	80-100mm	55mm	6x3mm	
P5097-120	100-120mm	95mm	10x3.2mm	
P5097-140	120-140mm	95mm	10x3.2mm	
P5097-160	140-160mm	95mm	10x3.2mm	

DIAL OUTSIDE CALIPER GAGE

FEATURES:

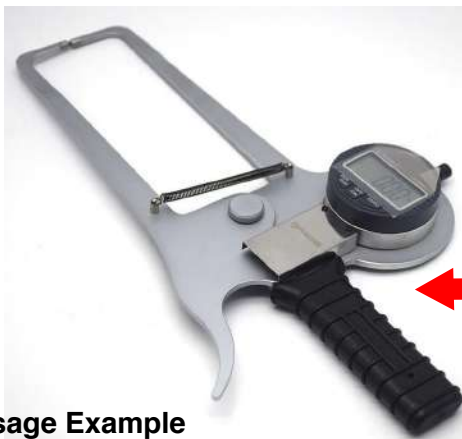
- Steel Body
- Graduation: metric 0.01mm, imperial 0.0005" ,0.001"
- For outside measurements
- Peach shaped mechanical body.
- Adjustable steel dial ring
- Packed in wooden box



unit:mm

Model No.	Range mm	Arm length	Tip length x diameter
P5097-180	160-180mm	95mm	10x3.2mm
P5097-200	180-200mm	95mm	10x3.2mm
P5097-220	200-220mm	95mm	10x3.2mm
Model No.	Range mm	Arm length	Tip length x diameter
P5097-0.8-1	0-0.8" / 0.0005"	2.3"	0.236x0.118"
P5097-1.6-1	0.8-1.6" / 0.0005"	2.3"	0.236x0.118"
P5097-2.4-1	1.6-2.4" / 0.0005"	2.1"	0.236x0.118"
P5097-3.2-1	2.4-3.2" / 0.0005"	2.1"	0.236x0.118"
P5097-4.0-1	3.2-4.0" / 0.0005"	2.1"	0.236x0.118"
P5097-0.8-2	0-0.8" / 0.001"	2.3"	0.236x0.118"
P5097-1.6-2	0.8-1.6" / 0.001"	2.3"	0.236x0.118"
P5097-2.4-2	1.6-2.4" / 0.001"	2.1"	0.236x0.118"
P5097-3.2-2	2.4-3.2" / 0.001"	2.1"	0.236x0.118"
P5097-4.0-2	3.2-4.0" / 0.001"	2.1"	0.236x0.118"

EXTERNAL DIGITAL CALIPER GAGE



OPTIONAL BALL TIPS

Model No.
P5114-



Model No.
P5113-

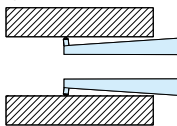


Model No.
P5115-

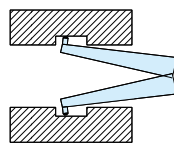
Usage Example

Internal Caliper Gauge

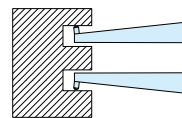
Internal dimension of deep position can be easily measured. (maximum measuring depth 180mm)



Groove diameter of groove for "O" ring can be easily measured.

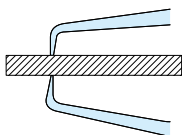


Measurement evading from screw, nuts etc. can be made.

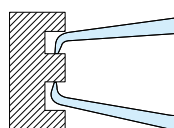


External Caliper Gauge

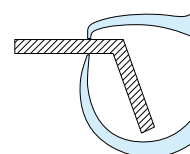
Thickness of long distance position of board shape workpiece can be measured. (maximum measuring depth 400mm)



Thickness measurement in narrow area.



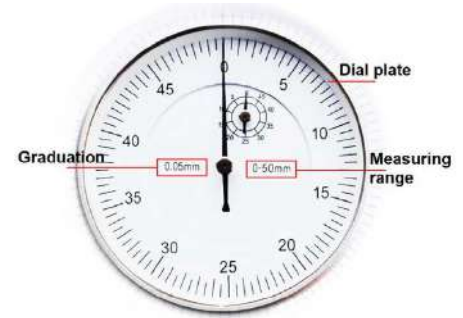
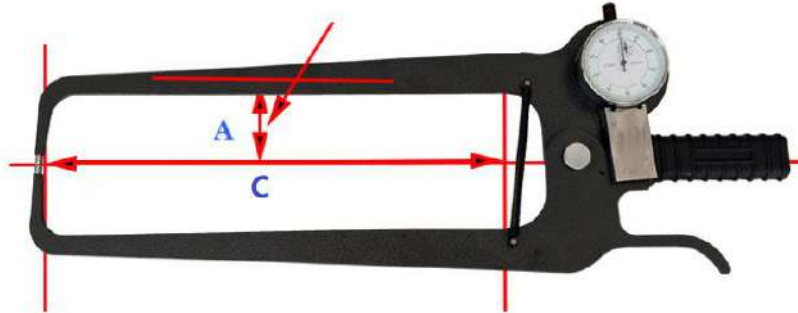
It can measure evading obstacles in front of measuring point.



EXTERNAL DIAL CALIPER GAGE Type A

FEATURES:

- These gauges are designed for use in measuring external dimension of thick and large measuring work piece or special shape products which seem to be difficult to measure
- Special order can be produced



unit:mm

Model No.	Measuring range mm	Max. Depth C	Graduation mm
P5110-20-125	0-20mm	125mm	0.01
P5110-20-150	0-20mm	150mm	0.01
P5110-20-200	0-20mm	200mm	0.01
P5110-20-250	0-20mm	250mm	0.01
P5110-20-300	0-20mm	300mm	0.01
P5110-50-125	0-50mm	125mm	0.05
P5110-50-150	0-50mm	150mm	0.05
P5110-50-200	0-50mm	200mm	0.05
P5110-50-250	0-50mm	250mm	0.05
P5110-50-300	0-50mm	300mm	0.05
P5110-50-350	0-50mm	350mm	0.05
P5110-50-400	0-50mm	400mm	0.05
P5110-50-450	0-50mm	450mm	0.05
P5110-50-500	0-50mm	500mm	0.05
P5110-80-150	0-80mm	150mm	0.1
P5110-80-200	0-80mm	200mm	0.1
P5110-80-250	0-80mm	250mm	0.1
P5110-80-300	0-80mm	300mm	0.1
P5110-80-350	0-80mm	350mm	0.1
P5110-80-400	0-80mm	400mm	0.1
P5110-80-450	0-80mm	450mm	0.1
P5110-80-500	0-80mm	500mm	0.1
P5110-80-600	0-80mm	600mm	0.1
P5110-100-200	0-100mm	200mm	0.1
P5110-100-250	0-100mm	250mm	0.1
P5110-100-300	0-100mm	300mm	0.1
P5110-100-350	0-100mm	350mm	0.1
P5110-100-400	0-100mm	400mm	0.1
P5110-100-450	0-100mm	450mm	0.1
P5110-100-500	0-100mm	500mm	0.1
P5110-100-600	0-100mm	600mm	0.1
P5110-100-700	0-100mm	700mm	0.1

EXTERNAL DIAL CALIPER GAGE Type B



unit:mm

Model No.	Measuring range mm	Max. Depth C	Graduation mm
P5111-20-125	0-20mm	125mm	0.01mm
P5111-20-150	0-20mm	150mm	0.01mm
P5111-20-200	0-20mm	200mm	0.01mm
P5111-20-250	0-20mm	250mm	0.01mm
P5111-20-300	0-20mm	300mm	0.01mm
P5111-50-125	0-50mm	125mm	0.05mm
P5111-50-150	0-50mm	150mm	0.05mm
P5111-50-200	0-50mm	200mm	0.05mm
P5111-50-250	0-50mm	250mm	0.05mm
P5111-50-300	0-50mm	300mm	0.05mm
P5111-50-350	0-50mm	350mm	0.05mm
P5111-50-400	0-50mm	400mm	0.05mm
P5111-50-450	0-50mm	450mm	0.05mm
P5111-50-500	0-50mm	500mm	0.05mm
P5111-80-150	0-80mm	150mm	0.1mm
P5111-80-200	0-80mm	200mm	0.1mm
P5111-80-250	0-80mm	250mm	0.1mm
P5111-80-300	0-80mm	300mm	0.1mm
P5111-80-350	0-80mm	350mm	0.1mm
P5111-80-400	0-80mm	400mm	0.1mm
P5111-80-450	0-80mm	450mm	0.1mm
P5111-80-500	0-80mm	500mm	0.1mm
P5111-80-600	0-80mm	600mm	0.1mm
P5111-100-200	0-100mm	200mm	0.1mm
P5111-100-250	0-100mm	250mm	0.1mm
P5111-100-300	0-100mm	300mm	0.1mm
P5111-100-350	0-100mm	350mm	0.1mm
P5111-100-400	0-100mm	400mm	0.1mm
P5111-100-450	0-100mm	450mm	0.1mm
P5111-100-500	0-100mm	500mm	0.1mm
P5111-100-600	0-100mm	600mm	0.1mm
P5111-100-700	0-100mm	700mm	0.1mm

OUTSIDE DIGITAL CALIPER GAUGE

FEATURES:

- Locking at any position;
- Zero set at any position;
- Resolution: 0.1mm/0.001"/1/64"
- Accuracy: +/-0.2mm)
- Arm length 122mm

unit:mm

Model No.	Range mm
P5088-150A	0-150mm/6"



OUTSIDE DIGITAL CALIPER GAUGE

FEATURES:

- Measuring range:0-25mm
- Resolution: 0.01mm
- Accuracy: +/-0.05mm
- Data output;
- Arm length:35mm
- 3V Lithium battery CR2032

unit:mm

Model No.	Range mm
P5088-25	0-25mm/1"



INSIDE DIGITAL CALIPER GAUGE

FEATURES:

- Locking and zero at any position
- Resolution: 0.1mm
- Accuracy: +/-0.2mm
- Functions:Hold,mm/in,on/off,automatic switch off,rest

unit:mm

Model No.	Range mm
P5088-%*)	%&"+-%*) mm/0.5-6.5"



OUTSIDE DIGITAL CALIPER GAUGE

FEATURES:

- Locking and zero at any position
- Resolution: 0.1mm
- Accuracy: +/-0.2mm for 150mm,+/-0.3mm for 200mm
- Functions:Hold,mm/in,on/off,automatic switch off,rest

Model No.	Range
P5088-150C	150mm/6"
P5088-200C	200mm/8"



OUTSIDE DIGITAL CALIPER GAUGE

FEATURES:

- Locking and zero at any position
- Resolution: 0.1mm
- Accuracy: +/-0.2mm for 165mm,+/-0.3mm for 216mm
- Functions:Hold,mm/in,on/off,automatic switch off,rest

Model No.	Range
P5088-165D	12.7-165mm
P5088-216D	12.7-216mm



OUTSIDE DIAL CALIPER GAUGE

FEATURES:

- For outside diameter measurement
- Body: Steel
- Convenient portable size
- Round probe tip for measuring irregular shapes



P5086-10-4



P5086-10-3



P5086-10-1



P5086-10-2

Model No.	Dial diam	Resolution	Remarks
P5086-10-3	0-10mm	0.05mm	arm 35mm
P5086-10-4	0-10mm	0.05mm	arm 63mm
P5086-10-1	0-10mm	0.05mm	arm 35mm
P5086-10-2	0-10mm	0.05mm	

OUTSIDE QUICK GAUGE

FEATURES:

- For outside measurement
- Body: Steel
- Convenient portable size
- Round probe tip for measuring irregular shapes



Model No.	Dial diam	Resolution	Remarks
P5086-10-5	0-10mm	0.1mm	arm 40mm

SAW SETTING DIAL GAUGE

FEATURES:

- Used to check the tooth set on steel saw blades and measure the tangential and radial side clearance of circular saw blades
- Saw Setting Dial Gauges are supplied with a flat contact point 10 mm diameter
- The specific contact point are available on demand. Please note that the contact points are not interchangeable.
- Side Dial Gauge (Set Gauge) is delivered with Storage Case
- As standard Saw Setting Dial Gauges are supplied with a flat contact Carbide anvil 10 mm diameter. Please note that the contact points are not interchangeable
- Notes: On both sides for left or right handed use



Model No.	Range mm/in	Reading mm	Bezel mm	Feeler mm	Unit: mm
P5076-2	2mm	0.02mm	Ø 40 mm	Ø 10 mm	
P5076-0.08	0.080"	0.001"	Ø 19/16"	Ø 10 mm	

STOPWATCH

PS8101A

1/10 SECOND RECORDER

- 30 SECONDS
- 15 MINUTES
- 13 JEWELS
- CASE: STAINLESS STEEL
- START/STOP: CROWN
- RESET: SIDE BUTTEN
- SIZE: $\varnothing 55 \times 77.4 \times 14 \text{mm}$



PS8101C

- 1/10 SECOND RECORDER
- 30 SECONDS
- 15 MINUTES
- 13 JEWELS
- CASE: STAINLESS STEEL
- START/STOP: CROWN
- RESET: SIDE BUTTEN
- SIZE: $\varnothing 55 \times 77.4 \times 14 \text{mm}$



DIGITAL STOPWATCH

PS100-011

- 1 lines display
- 1/100 seconds
- 10 memories
- time /calendar
- display size: $33.6 \times 13.6 \text{mm}$
- plastic case: $\varnothing 58 \times 75 \times 16 \text{mm}$



PS100-012

- 1 lines display
- 1/100 seconds
- 1 memories
- time /calendar
- display size: $18 \times 37 \text{mm}$
- plastic case: $64 \times 53 \times 19 \text{mm}$

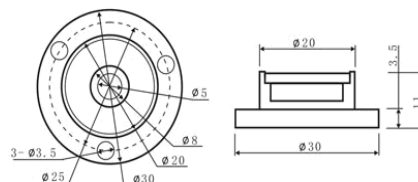


LEVEL BUBBLE



Model No: PC25-302011

Size: $\varnothing 30 \times 20 \times 11 \text{mm}$ Sensitivity: 5'-60'/2mm



STYLUS & ACCESSORIES



Surface Roughness Measuring stylus

CMM Stylus & Accessories

Height Gauge Probes

Gear Measuring Stylus

Test Indicators Stylus
Stylus for tactile probes

Thread Position Inserts



Contour Measuring Stylus

Stylus for Zeiss / Leitz CMM

Thread Pitch Measuring T-Stylus

Dial Gauge Stylus

Stylus for Faro / Romer Arm

Stylus for Machine Tools

Reference Sphere



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STYLI FOR CMM

M2 Thread Styli

Styli (Type C)	Model No.	Shaft	Ball	wt	dk mm	d1 mm	L mm	ML mm
	1.0-10.5-2 NTC	Steel	Ruby	0.3g	1.0	0.7	10.5	5.0
	1.5-11-2 NTC	Steel	Ruby	0.3g	1.5	1.0	11.0	6.0
	2.0-11-2 NTC	Steel	Ruby	0.3g	2.0	1.2	11.0	7.0
	2.0-16-2 NTC	Steel	Ruby	0.3g	2.0	1.2	16.0	12.0
	2.0-21-2 NTC	Steel	Ruby	0.3g	2.0	1.4	21.0	15.0
	2.5-11-2 NTC	Steel	Ruby	0.3g	2.5	1.5	11.0	7.0
	2.5-21-2 NTC	Steel	Ruby	0.4g	2.5	1.5	21.0	17.0
	3.0-11.5-2 NTC	Steel	Ruby	0.4g	3.0	2.0	11.5	8.0
	3.0-21.5-2 NTC	Steel	Ruby	0.6g	3.0	2.0	21.5	18.0
	4.0-12-2 NTC	Steel	Ruby	0.5g	4.0	2.4	12.0	9.0
	4.0-22-2 NTC	Steel	Ruby	0.9g	4.0	2.4	22.0	19.0

Styli (Type D)	AcXY No.	Shaft	Ball	wt	dk mm	L mm
	5.0-12.5-2 NTD	Steel	Ruby	0.7g	5.0	12.5
	5.0-27.5-2 NTD	Steel	Ruby	1.6g	5.0	27.5
	6.0-13-2 NTD	Steel	Ruby	0.9g	6.0	13.0
	6.0-28-2 NTD	Steel	Ruby	1.7g	6.0	28.0
	8.0-14-2 NTD	Steel	Ruby	1.3g	8.0	14.0
	8.0-29-2 NTD	Steel	Ruby	1.9g	8.0	29.0

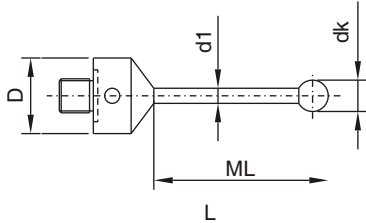
STYLI FOR HEIGHT GAUGES

Styli for height gauges	Order No.	Shaft	Ball	ØD	dk mm	d1 mm	L mm	ML mm
Concentric Stylus 	1.0-75-8 ITN	Steel	Ruby	8.0	1.0	0.7	75.0	1.5
	1.5-75-8 ITN	Steel	Ruby	8.0	1.5	0.9	75.0	2.2
	2.0-75-8 ITN	Steel	Ruby	8.0	2.0	1.4	75.0	4.0
	3.0-75-8 ITN	Steel	Ruby	8.0	3.0	2.0	75.0	6.0
	4.0-80-8 ITN	Steel	Ruby	8.0	4.0	3.0	80.0	11.0
	5.0-80-8 ITN	Steel	Ruby	8.0	5.0	4.0	80	16.0
	10.0-80-8 ITN	Steel	Ruby	8.0	10.0	6.0	80	25.0

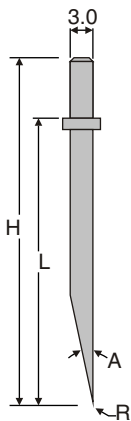
Eccentric Stylus	Order No.	Shaft	Ball	ØD	dk mm	d1 mm	L mm	ML mm	E mm
	2.0-51-8 ITNE	Steel	Ruby	8.0	2.0	1.0	51.0	6.0	0.3
	3.0-55-8 ITNE	Steel	Ruby	8.0	3.0	1.5	55.0	10.0	0.55
	4.0-60-8 ITNE	Steel	Ruby	8.0	4.0	2.5	60.0	15.0	0.55

GEAR MEASURING STYLUS

Styli (Type S)	Model No.	Zeiss No.	wt	D mm	dk mm	d1 mm	L mm	ML mm
Ball: Ruby Shaft: Tungsten Carbide Ferrule: Steel	P1.35-32.9-11 NTS	-	6g	11	1.35	1.0	32.9	23.9
	P1.5-33-11 NTS	-	6g	11	1.5	1.0	33.0	24.0
	P2.0-33.5-11 NTS	-	7g	11	2.0	1.5	33.5	24.5
	P2.5-34-11 NTS	-	7g	11	2.5	1.5	34.0	25.0

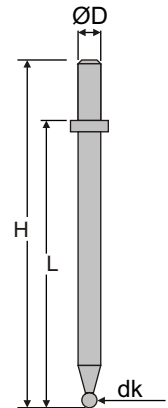


CONTOUR MEASURING PROBE TIPS

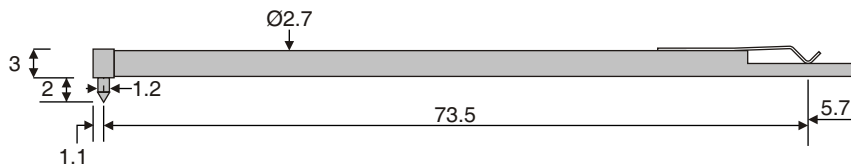


Model No.	H mm	L mm	A	R	TIP Material	Compatible Zeiss No.
PT-101-60-2512-TCZ	60	52	12°	25 µm	Tungsten Carbide	DT45501
PT-101-34-2512-TCZ	34	26	12°	25 µm	Tungsten Carbide	DT45502

Model No.	H mm	L mm	ØD mm	dk mm	Ball	Compatible Zeiss No.
PT-103-60-350-RZ	60	52	3.0	0.7	Ruby	DM45522
PT-103-34-350-RZ	34	26	3.0	0.7	Ruby	DM45523
PT-103-21-350-RZ	21	13	2.0	0.7	Ruby	DM45524
PT-103-60-500-RZ	60	52	3.0	1.0	Ruby	DM45525
PT-103-34-500-RZ	34	26	3.0	1.0	Ruby	DM45526
PT-103-21-500-RZ	21	13	2.0	1.0	Ruby	DM45527



SURFACE ROUGHNESS STYLUS



Model No.	TIP Material	TIP Radius	TIP Angle	Compatible Zeiss No.
PR-104-260-DZ	Diamond	2 µm	60°	DT43822
PR-104-590-DZ	Diamond	5 µm	90°	010 2522

F05/F10/A17 LVDT PROBE
FEATURES:

- Comprehensive product range
- High quality and precision
- Competitive price
- Short delivery
- Durability


Specifications

Description	MEASURING RANGE													
	± 0,5 mm		± 1mm				± 2.5mm			± 5mm				
	Standard	Standard	Pneum. Push	Long Range (LR)		Standard	Pneum. Push	Standard	Pneum. Push	Standard	Pneum. Push			
				Standard	P. Push									
Pre-travel at electrical zero (mm)	0,6/0,7		1,1/1,2				2,6/2,7			5,1/5,2				
Overtravel from electrical zero (mm)	≥ 0,65		≥ 1,5		≥ 9		≥ 3			≥ 5,1				
Pre-travel adjustment	Yes		Yes				Yes			Yes				
Pneumatic Push (PP) Vacuum Retract (VR)	—		—	VR(*)	PP	VR(*)	PP	—	VR(*)	PP	—	VR(*)	PP	
Operating pressure	bar		—		0,4 ÷ 1	—		0,4 ÷ 1		—		0,4 ÷ 1		
	psi		—		6 ÷ 14,5	—		6 ÷ 14,5		—		6 ÷ 14,5		
Standard spring strength (N/mm ± 15%)	0,17		0,14		0,08		0,1		0,02		0,08		0,03	
Tip force at electrical zero (N ± 25%)	1		0,7		0,8 ÷ 2,5		0,7		0,5 ÷ 2		0,7		0,6 ÷ 2,3	
Guide system	ball bearing		ball bearing				ball bearing			ball bearing				
Repeatability(σ x 2,77) (µm)	≤ 0,15		≤ 0,15		≤ 0,3		≤ 0,2			≤ 0,4				
Degree of protection CEI/IEC 529	IP65		IP65				IP65			IP65				
Standard contact (R...mm)	1,5		1,5				1,5			1,5				
Optional contacts	Yes		Yes				Yes			Yes				
Linearity error (µm)	≤ 3 (0,3%)		≤ 5 (0,25%)				≤ 25 (0,5%)			≤ 50 (0,5%)				
Thermal drift at zero (µm/°C)	≤ 0,25		≤ 0,25				≤ 0,25			≤ 0,5				
Operating temperature (°C)	-10 +65		-10 +65				-10 +65			-10 +65				
Standard gaiter	Fluoroelastomer		Fluoroelastomer				Fluoroelastomer			Fluoroelastomer				
Std. connector (DIN 45322) Lumberg	SV50/6		SV50/6				SV50/6			SV50/6				
Cable length (m)	2		2				2			2				

Full-bridge (LVDT) electrical specifications

Trade name	F05		F10		F25		F50																			
	FR05	FR10	FR10	FR11	FR11	FR25	FR25	FR50	FR50	FR50																
Calibration frequency (KHz)	7,5		7,5		7,5		7,5		7,5																	
Calibrated at	3,5V RMS with load 1MOhm //360 pF																									
Max. current (mA RMS)	9		9		9		9		9																	
I/O phase shift	≤ 10°		≤ 10°		≤ 10°		≤ 10°		≤ 10°																	
Sensitivity (mV/V/mm)	230 ±1%		230 ±1%		115 ±1%		115 ±1%		115 ±1%																	
Cable outlet	axial	∅ 8	∅ 3/8"	∅ 8	∅ 3/8"	∅ 8	∅ 3/8"	∅ 8	∅ 3/8"	∅ 8	∅ 3/8"															
	radial	∅ 8	∅ 3/8"	∅ 8	∅ 3/8"	∅ 8	∅ 3/8"	∅ 8	∅ 3/8"	∅ 8	∅ 3/8"															
Order Code	P441552000	P441552002	P441552001	P441552003	P441554000	P441554005	P441554001	P441554006	P441554002	P441554007	P441554007	P441554008	P441554004	P441554009	P441556000	P441556003	P441556001	P441556004	P441556002	P441556005	P441558000	P441558003	P441558001	P441558004	P441558002	P441558005

INDUCTIVE DIGITAL COMPARATOR

FEATURES:

- Multi measurement mode: ABS, INC, TOLERANCE, PRESET, Maximum, Minimum, Max-Min
- Swiveling display unit: the display unit can be rotated 180° clockwise and 130° counter clockwise.
- Digital and dial dual-display
- RGB LED indicator
- Data Interface: USB
- Measuring force spring is interchangeable
- Protection class: IP54

TECHNICAL SPECIFICATION

Model No.	2/0.0787" (mm/inch)
Measuring Span	2/0.0787" (mm/inch)
Resolution	0.0001/0.000005"(mm/inch)
Total Stroke	4 mm
Measuring force	0.7~0.9 N
Measuring principle	inductive
Display	High contrast LCD
Contact point	Ruby
Mounting shaft	8 mm
Battery	Built-in Li-ion rechargeable batteries
Continuous working time	approx. 12 h
Charging time	approx. 3h
Protection class	IP 54
Operating temperature	+5°C to +40°C
Storage temperature	-10°C to +60°C
Data Interface	USB
Weight	185 g

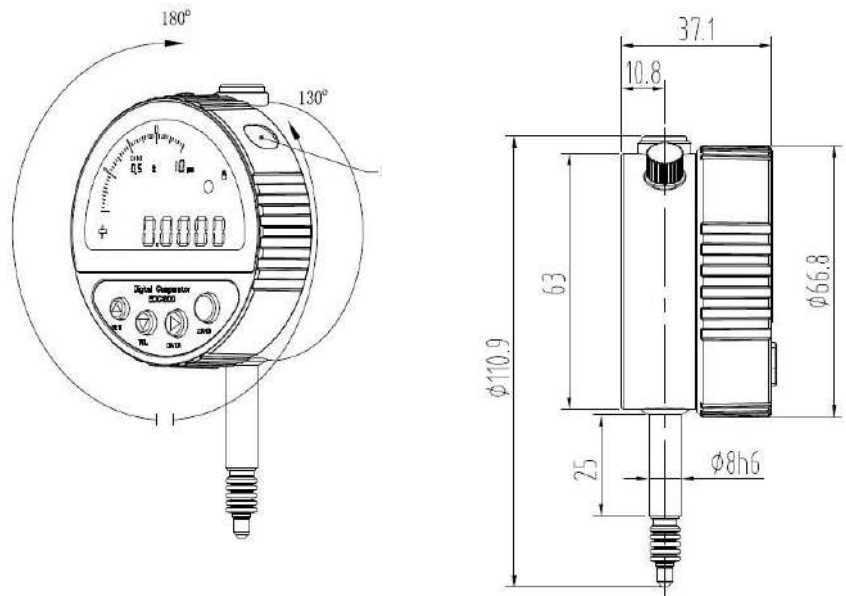


Analog dial display

μm		mil	
Range	Resolution	Range	Resolution
± 5	0.25	±0.2	0.01
± 10	0.5	±1	0.05
± 20	1	±2	0.1
± 50	2.5	±5	0.25
± 100	5	±10	0.5
± 200	10	-	-
± 500	25	-	-

STANDARD DELIVERY

- Digital comparator
- Back lug
- Manual lifter with cable release
- USB cable and charger
- Instruction manual





GAGE BLOCK
GAGE BLOCK ACCESSORIES
CHECK MASTER
STANDARD GLASS SCALE
OPTICAL FLAT
PIN GAGE
3 WIRE GAGE
PLAIN GAGE
THREAD GAGE
HI-RESOLUTION THREAD GAGE
API THREAD GAGE
TEST WEIGHT



RUSSIAN GOST STANDARD



DIN STANDARD



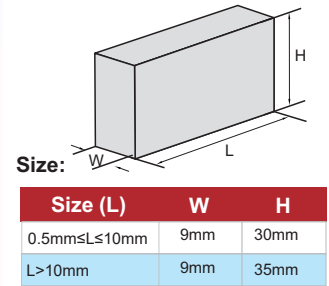
SET: M3/M4/M5/M6/M8/M10/M12

CERAMIC GAUGE BLOCKS

FEATURES:

- Made of ceramic material, extremely wear-resistant.
- Corrosion resistance, excellent dimension stability.
- With calibration certificate.
- Accuracy: Metric DIN 861/ISO 3650, imperial GGG-G-15C grade 2 (grade 3 and B are optional).
- Packed in wooden box.

Notes: Ceramic gage block single pieces also optional from metric 0.5mm-150mm, inch From 0.05"-6"



Size:

Size (L)	W	H
0.5mm ≤ L ≤ 10mm	9mm	30mm
L > 10mm	9mm	35mm

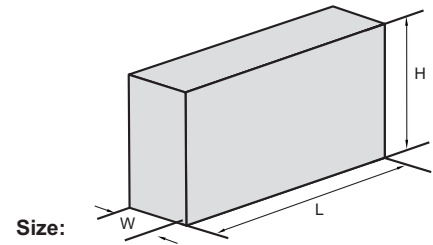
Model No	Grade	Total quantity	Size mm	Step mm
P9000-122-K	K	122pcs	1.0005 (1pc)	
P9000-122-0	0		75 (1pc)	
P9000-122-1	1		1.001-1.009(9pcs)	0.001
			1.01-1.49(49pcs)	0.01
P9000-122-2	2		1.6-1.9(4pcs)	0.1
			0.5-25(50pcs)	0.5
P9000-112-K	K	112pcs	30-100(8pcs)	10
			1.0005 (1pcs)	
			1.001-1.009(9pcs)	0.001
			1.01-1.49(49pcs)	0.01
			0.5-24.5(49pcs)	0.5
P9000-103-K	K	103pcs	25-100(4pcs)	25
			1.005 (1pc)	
			1.01-1.49(49pcs)	0.01
			0.5-24.5(49pcs)	0.5
P9000-87-K	K	87pcs	25-100(4pcs)	25
			1.005 (1pc)	
			1.01-1.49(49pcs)	0.01
			0.5-9.5(19pcs)	0.5
P9000-83-K	K	83pcs	10-100(10pcs)	10
			1.005 (1pc)	
			1.01-1.49(49pcs)	0.01
P9000-76-K	K	76pcs	1.6-1.9(4pcs)	0.1
			0.5-9.5(19pcs)	0.5
			1.01-1.49(49pcs)	0.01
			0.5-9.5(19pcs)	0.5
			10-100(10pcs)	10
P9000-56-K	K	56 pcs	50-100(3pcs)	25
			1.005 (1pc)	
			1.01-1.49(49pcs)	0.01
			0.5mm(1pc)	
			1.001-1.009(9pcs)	0.001
P9000-47-K	K	47 pcs	1.01-1.09(9pcs)	0.01
			1.1-1.9(9pcs)	0.1
			1-24(24pcs)	1
			1.01-1.09(9pcs)	0.01
			1.1-1.9(9pcs)	0.1
P9000-47-K	K	47 pcs	1-24(24pcs)	1
			25-100(4pcs)	25
			1.005 (1pc)	
			1.01-1.19(19pcs)	0.01
			1.2-1.9(8pcs)	0.1
P9000-47-1	1	47 pcs	1-9(9pcs)	1
			10-100(10pcs)	10
			10-100(10pcs)	10

P9000-46-K	K	46 pcs	1.001-1.009 (9pcs)	0.001
P9000-46-0	0		1.01-1.09 (9pcs)	0.01
P9000-46-1	1		1.1-1.9 (9pcs)	0.1
P9000-46-2	2		1-9 (9pcs)	1
			10-100 (10pcs)	10
P9000-32-K	K	32 pcs	1.005 (1pc)	
P9000-32-0	0		1.01-1.09 (9pcs)	0.01
P9000-32-1	1		1.1-1.9 (9pcs)	0.1
P9000-32-2	2		1-9 (9pcs)	1
			10-30 (3pcs)	10
			50 (1pc)	

STEEL GAUGE BLOCK DIN861/ISO3650

FEATURES:

- Made of alloy steel
- With calibration certificate.
- Meet DIN EN ISO 3650,
- Packed in wooden box



Size:

Size (L)	W	H
0.5mm≤L≤10mm	9mm	30mm
L>10mm	9mm	35mm

Model No.	Grade	Total quantity	Size (mm)	Step(mm)	
P9003-5-0	0	5pcs	600,700,800,900,1000		
P9003-5-1	1				
P9003-5-2	2				
P9003-8-01	0	8pcs	125,150,175 200,250 300,400,500		
P9003-8-11	1				
P9003-8-21	2				
P9003-8-02	0	8pcs	25,50,75,100 125,150,175,200		
P9003-8-12	1				
P9003-8-22	2				
P9003-38-0	0	38pcs	1.005(1pc)		
P9003-38-1	1		1.01 - 1.09(9pcs)		0.01
			1.1 - 1.9(9pcs)		0.1
P9003-38-2	2		1 - 9(9pcs)		1
			10 - 100(10pcs)		10
P9003-46-0	0	46pcs	1.001 - 1.009 (9pcs)	0.001	
P9003-46-1	1		1.01 - 1.09 (9pcs)	0.01	
			1.1 - 1.9 (9pcs)	0.1	
P9003-46-2	2		1 - 9(9pcs)	1	
			10 - 100(10pcs)	10	

P9003-83-0	0	83pcs	0.5 (1pc)	
			1 (1pc)	
P9003-83-1	1		1.005 (1pc)	
			1.01 - 1.49 (49pcs)	0.01
			1.5 - 1.9 (5pcs)	0.1
P9003-83-2	2		2 - 9.5 (16pcs)	0.5
			10 - 100 (10pcs)	10
P9003-88-0	0	88pcs	1.0005 (1pc)	
			1.001-1.009 (9pcs)	0.001
P9003-88-1	1		1.01-1.49 (49pcs)	0.01
			0.5-9.5 (19pcs)	0.5
			10-100 (10pcs)	10
P9003-32-0	0	32pcs	1.005 (1pc)	
			1.01 - 1.09 (9pcs)	0.01
P9003-32-1	1		1.1 - 1.9 (9pcs)	0.1
			1 - 9 (9pcs)	1
			10 - 30 (3pcs)	10
P9003-32-2	2		50 (1pc)	
P9003-47-0	0	47pcs	1.005 (1pc)	
			1.01 - 1.09 (9pcs)	0.01
P9003-47-1	1		1.10 - 1.19 (10pcs)	0.1
			1.2 - 1.9 (8pcs)	0.1
			1 - 9 (9pcs)	0.1
P9003-47-2	2		10 - 100 (10pcs)	10
P9003-76-0	0	76pcs	1.005(1pc)	
			1.01 - 1.49 (49pcs)	0.01
P9003-76-1	1		0.5 - 9.5 (19pcs)	0.5
			10 - 50 (5pcs)	10
			75 -100 (2pcs)	25
P9003-87-0	0	87pcs	1.001 - 1.009 (9pcs)	0.001
			1.01- 1.49 (49pcs)	0.01
P9003-87-1	1		0.5 - 9.5 (19pcs)	0.5
			10 - 100 (10pcs)	10
P9003-87-2	2			
P9003-103-0	0	103pcs	1.005 (1pc)	
			1.01 - 1.49 (49pcs)	0.01
P9003-103-1	1		0.5 - 24.5 (49pcs)	0.5
			25 - 100 (4pcs)	25
P9003-112-0	0	112pcs	1.0005 (1pc)	
			1.001 - 1.009 (9pcs)	0.001
P9003-112-1	1		1.01- 1.49 (49pcs)	0.01
			0.5 - 24.5 (49pcs)	0.5
			25-100 (4pcs)	25
P9003-122-0	0	122pcs	0.5 (1pc)	
			1 (1pc)	
			1.0005 (1pc)	
			1.001-1.009 (9pcs)	0.001
P9003-122-1	1		1.01-1.49 (49pcs)	0.01
			1.5-1.9 (5pcs)	0.1
			2-25 (47pcs)	0.5
			30-70 (5pcs)	10
			75 (1pc)	
P9003-122-2	2	80-100 (3pcs)	10	

TUNGSTEN CARBIDE GAUGE BLOCKS

FEATURES:

- Made of tungsten carbide
- With calibration certificate
- Meet DIN EN ISO 3650
- Packed in wooden box



Model No.	Grade	Total quantity	Size (mm)	Step(mm)
P9006-38-0	0	38pcs	1.005(1pc)	
P9006-38-1	1		1.01 - 1.09(9pcs)	
P9006-38-2	2		1.1 - 1.9(9pcs)	1
			1 - 9(9pcs)	10
P9006-46-0	0	46pcs	10 - 100 (10pcs)	0.001
P9006-46-1	1		1.001 - 1.009 (9pcs)	0.01
P9006-46-2	2		1.01 - 1.09 (9pcs)	0.1
			1.1 - 1.9 (9pcs)	1
P9006-83-0	0	83pcs	1 - 9(9pcs)	10
P9006-83-1	1		0.5 (1pc)	
P9006-83-2	2		1 (1pc)	
			1.005 (1pc)	
P9006-32-0	0	32pcs	1.01 - 1.49 (49pcs)	0.01
P9006-32-1	1		1.5 - 1.9 (5pcs)	0.1
P9006-32-2	2		2 - 9.5 (16pcs)	0.5
			10 - 100 (10pcs)	10
P9006-47-0	0	47pcs	10 - 30 (3pcs)	
P9006-47-1	1		50 (1pc)	
P9006-47-2	2		1.005 (1pc)	
			1.01 - 1.09 (9pcs)	0.01
P9006-76-0	0	76pcs	1.10 - 1.19 (10pcs)	0.1
P9006-76-1	1		1.2 - 1.9 (8pcs)	0.1
P9006-76-2	2		1 - 9 (9pcs)	0.1
			10 - 100 (10pcs)	10
P9006-87-0	0	87pcs	10 - 100 (10pcs)	
P9006-87-1	1		1.005(1pc)	
P9006-87-2	2		1.01 - 1.49 (49pcs)	0.01
			0.5 - 9.5 (19pcs)	0.5
P9006-103-0	0	103pcs	10 - 50 (5pcs)	10
P9006-103-1	1		75 -100 (2pcs)	25
P9006-103-2	2		1.001 - 1.009 (9pcs)	0.001
			1.01- 1.49 (49pcs)	0.01
			0.5 - 9.5 (19pcs)	0.5
			10 - 100 (10pcs)	10
			1.005 (1pc)	
			1.01 - 1.49 (49pcs)	0.01
			0.5 - 24.5 (49pcs)	0.5
			25 - 100 (4pcs)	25

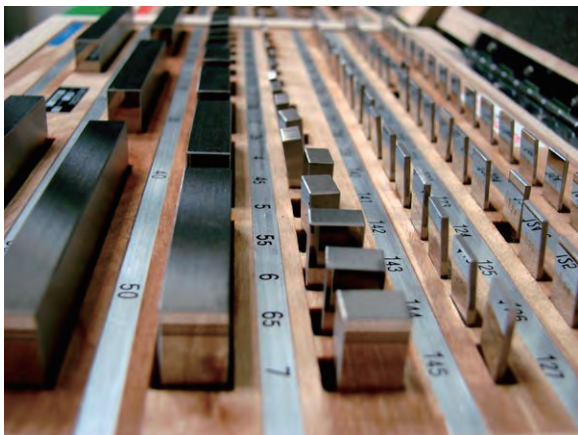
P9006-112-0	0	112pcs	1.0005 (1pc)	
P9006-112-1	1		1.001 - 1.009 (9pcs)	0.001
P9006-112-2	2		1.01- 1.49 (49pcs)	0.01
			0.5 – 24.5 (49pcs)	0.5
P9006-122-0	0	122pcs	25-100 (4pcs)	25
			0.5 (1pc)	
			1 (1pc)	
			1.0005 (1pc)	
P9006-122-1	1		1.001-1.009 (9pcs)	0.001
			1.01-1.49 (49pcs)	0.01
			1.5-1.9 (5pcs)	0.1
			2-25 (47pcs)	0.5
P9006-122-2	2		30-70 (5pcs)	10
		75 (1pc)		
		80-100 (3pcs)	10	

■ Gauge Block (Imperial) Material : Steel



Model No.	Spec.(inch)	Step(inch)	Quantity
P9005-81-2	0.05"	-	1
Grade : 0	0.100"	-	1
P9005-81-3	0.1001" -0.1009"	0.0001"	9
Grade : 1	0.101" -0.150"	0.001"	50
P9005-81-B	0.200" -0.950"	0.05"	16
Grade : 2	1.000" -4.000"	1.000"	4
P9005-36-2	0.05"	-	1
Grade : 0	0.100"	-	1
	0.1001" -0.1009"	0.0001"	9
P9005-36-3	0.101" -0.110"	0.001"	10
Grade : 1	0.120" -0.200"	0.01"	9
P9005-36-B	0.300" -0.500"	0.100"	3
Grade : 2	1.000" -2.000"	1.000"	2
	4.000"	-	1

■ Gauge Block (Imperial) Material:Tungsten carbide



Model No.	Spec.(inch)	Step(inch)	Quantity
P9007-81-2	0.05"	-	1
Grade : 0	0.100"	-	1
P9007-81-3	0.1001" -0.1009"	0.0001"	9
Grade : 1	0.101" -0.150"	0.001"	50
P9007-81-B	0.200" -0.950"	0.05"	16
Grade : 2	1.000" -4.000"	1.000"	4
P9007-36-2	0.05"	-	1
Grade : 0	0.100"	-	1
	0.1001" -0.1009"	0.0001"	9
P9007-36-3	0.101" -0.110"	0.001"	10
Grade : 1	0.120" -0.200"	0.01"	9
P9007-36-B	0.300" -0.500"	0.100"	3
Grade : 2	1.000" -2.000"	1.000"	2
	4.000"	-	1

■ Gauge Block (Imperial) Material : Ceramic



Model No.	Spec.(inch)	Step(inch)	Quantity
P9000-81-2	0.05"	-	1
	Grade : 0 0.100"	-	1
P9000-81-3	0.1001" -0.1009"	0.0001"	9
	Grade : 1 0.101" -0.150"	0.001"	50
P9000-81-2B	0.200" -0.950"	0.05"	16
	Grade : 2 1.000" -4.000"	1.000"	4
P9000-36-2	0.05"	-	1
	Grade : 0 0.100"	-	1
P9000-36-3	0.1001" -0.1009"	0.0001"	9
	Grade : 1 0.101" -0.110"	0.001"	10
P9000-36-B	0.120" -0.200"	0.01"	9
	Grade : 2 0.300" -0.500"	0.100"	3
	1.000" -2.000"	1.000"	2
	4.000"	-	1

*Accuracy: According to ASME B89.1.9-2002 Standard

*Full set with the calibration report

■ Gauge Block (Specially for outside micrometer)

For calibrating parallel and dimension accuracy of outside micrometer measuring face.

Material: Hardened steel



Model No.	Pcs.	Optical flat mm	Size mm
P9010-5	5	-	5,1/10,3/15,0/20,2/25,0
P9010-6	6	30	5,1/10,3/15,0/20,2/25,0
P9010-10	10	-	2,5/5,1/7,7/10,3/12,9/15,0/17,6/20,2/22,8/25,0
P9010-11	11	-	1,4/2,5/5,1/7,7/10,3/12,9/15,0/17,6/20,2/22,8/25,0
P9010-12	12	30	1,4/2,5/5,1/7,7/10,3/12,9/15,0/17,6/20,2/22,8/25,0
P9010-8	8	-	5,1/10,3/15,0/20,2/25,0/50/75/100
P9010-9	9	30	5,1/10,3/15,0/20,2/25,0/50/75/100
P9010-14	14	-	1,4/2,5/5,1/7,7/10,3/12,9/15,0/17,6/20,2/22,8/25,0/50/75/100
P9010-15	15	30	1,4/2,5/5,1/7,7/10,3/12,9/15,0/17,6/20,2/22,8/25,0/50/75/100

GAUGE BLOCK SET FOR CHECKING CALIPERS

FEATURES:

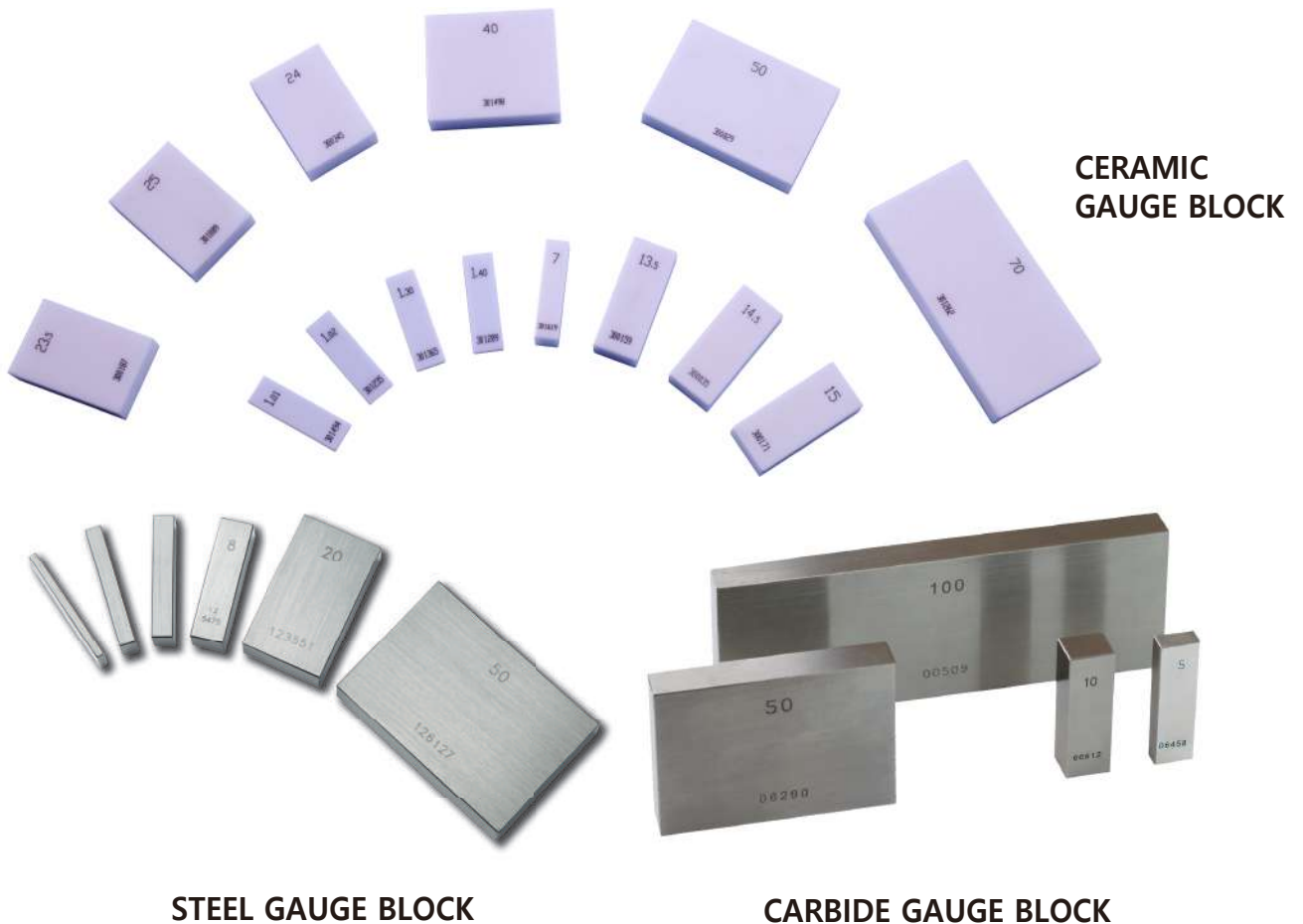
- Gauge block set for checking of calipers
- DIN EN ISO 3650
- Set in wooden case



unit:mm

Model No.	Pcs.	Set ring mm	Size mm	Grade
P9011-1	5	4+25	30/41.3/131.4	1
P9011-2	6	4+25	41.3/131.4/243.5/281.2	1
P9011-3	3	20	41.3/131.4	2
P9011-4	9		10/2x20/41.2/51.2/81.2/101.2/121.5/121.8	2
P9011-5	5	20	41.3/131.4/243.5/281.2	2
P9011-6	1		41.3	1
P9011-7	1		131.4	1
P9011-8	1		243.5	1
P9011-9	1		281.2	1
P9011-10	1		481.1	2
P9011-11	1		481.1	1

INDIVIDUAL GAUGE BLOCK-CERAMIC/STEEL/CARBIDE



■ Ceramic Gauge Block (Individual)

Material: Ceramic Hardness HV1100-1400

Model No.	Spec.(mm)	Grade
PB-C0.5-0	0.5	0
PB-C0.5-1		1
PB-C1.0-0	1.0	0
PB-C1.0-1		1
PB-C1.0005-0	1.0005	0
PB-C1.0005-1		1
PB-C1.001-0	1.001	0
PB-C1.001-1		1
PB-C1.002-0	1.002	0
PB-C1.002-1		1
PB-C1.003-0	1.003	0
PB-C1.003-1		1
PB-C1.004-0	1.004	0
PB-C1.004-1		1
PB-C1.005-0	1.005	0
PB-C1.005-1		1
PB-C1.006-0	1.006	0
PB-C1.006-1		1
PB-C1.007-0	1.007	0
PB-C1.007-1		1
PB-C1.008-0	1.008	0
PB-C1.008-1		1
PB-C1.009-0	1.009	0
PB-C1.009-1		1
PB-C1.01-0	1.01	0
PB-C1.01-1		1
PB-C1.02-0	1.02	0
PB-C1.02-1		1
PB-C1.03-0	1.03	0
PB-C1.03-1		1
PB-C1.04-0	1.04	0
PB-C1.04-1		1
PB-C1.05-0	1.05	0
PB-C1.05-1		1

Model No.	Spec.(mm)	Grade
PB-C1.06-0	1.06	0
PB-C1.06-1		1
PB-C1.07-0	1.07	0
PB-C1.07-1		1
PB-C1.08-0	1.08	0
PB-C1.08-1		1
PB-C1.09-0	1.09	0
PB-C1.09-1		1
PB-C1.1-0	1.1	0
PB-C1.1-1		1
PB-C1.11-0	1.11	0
PB-C1.11-1		1
PB-C1.12-0	1.12	0
PB-C1.12-1		1
PB-C1.13-0	1.13	0
PB-C1.13-1		1
PB-C1.14-0	1.14	0
PB-C1.14-1		1
PB-C1.15-0	1.15	0
PB-C1.15-1		1
PB-C1.16-0	1.16	0
PB-C1.16-1		1
PB-C1.17-0	1.17	0
PB-C1.17-1		1
PB-C1.18-0	1.18	0
PB-C1.18-1		1
PB-C1.19-0	1.19	0
PB-C1.19-1		1
PB-C1.2-0	1.2	0
PB-C1.2-1		1
PB-C1.21-0	1.21	0
PB-C1.21-1		1
PB-C1.22-0	1.22	0
PB-C1.22-1		1

Model No.	Spec.(mm)	Grade
PB- C1.23-0	1.23	0
PB- C1.23-1		1
PB- C1.24-0	1.24	0
PB- C1.24-1		1
PB- C1.25-0	1.25	0
PB- C1.25-1		1
PB- C1.26-0	1.26	0
PB- C1.26-1		1
PB- C1.27-0	1.27	0
PB-C1.27-1		1
PB- C1.28-0	1.28	0
PB- C1.28-1		1
PB- C1.29-0	1.29	0
PB- C1.29-1		1
PB- C1.30-0	1.30	0
PB- C1.30-1		1
PB- C1.31-0	1.31	0
PB- C1.31-1		1
PB- C1.32-0	1.32	0
PB- C1.32-1		1
PB- C1.33-0	1.33	0
PB- C1.33-1		1
PB- C1.34-0	1.34	0
PB- C1.34-1		1
PB- C1.35-0	1.35	0
PB-C1.35-1		1
PB-C1.36-0	1.36	0
PB-C1.36-1		1
PB-C1.37-0	1.37	0
PB-C1.37-1		1
PB-C1.38-0	1.38	0
PB-C1.38-1		1
PB-C1.39-0	1.39	0
PB-C1.39-1		1

■ Ceramic Gauge Block (Individual)

Material: Ceramic Hardness HV1100-1400

Model No.	Spec.(mm)	Grade
PB-C1.4-0	1.4	0
PB-C1.4-1		1
PB-C1.41-0	1.41	0
PB-C1.41-1		1
PB-C1.42-0	1.42	0
PB-C1.42-1		1
PB-C1.43-0	1.43	0
PB-C1.43-1		1
PB-C1.44-0	1.44	0
PB-C1.44-1		1
PB-C1.45-0	1.45	0
PB-C1.45-1		1
PB-C1.46-0	1.46	0
PB-C1.46-1		1
PB-C1.47-0	1.47	0
PB-C1.47-1		1
PB-C1.48-0	1.48	0
PB-C1.48-1		1
PB-C1.49-0	1.49	0
PB-C1.49-1		1
PB-C1.5-0	1.5	0
PB-C1.5-1		1
PB-C1.6-0	1.6	0
PB-C1.6-1		1
PB-C1.7-0	1.7	0
PB-C1.7-1		1
PB-C1.8-0	1.8	0
PB-C1.8-1		1
PB-C1.9-0	1.9	0
PB-C1.9-1		1
PB-C2.0-0	2.0	0
PB-C2.0-1		1
PB-C2.5-0	2.5	0
PB-C2.5-1		1

Model No.	Spec.(mm)	Grade
PB-C3.0-0	3.0	0
PB-C3.0-1		1
PB-C3.5-0	3.5	0
PB-C3.5-1		1
PB-C4.0-0	4.0	0
PB-C4.0-1		1
PB-C4.5-0	4.5	0
PB-C4.5-1		1
PB-C5.0-0	5.0	0
PB-C5.0-1		1
PB-C5.5-0	5.5	0
PB-C5.5-1		1
PB-C6.0-0	6.0	0
PB-C6.0-1		1
PB-C6.5-0	6.5	0
PB-C6.5-1		1
PB-C7.0-0	7.0	0
PB-C7.0-1		1
PB-C7.5-0	7.5	0
PB-C7.5-1		1
PB-C8.0-0	8.0	0
PB-C8.0-1		1
PB-C8.5-0	8.5	0
PB-C8.5-1		1
PB-C9.0-0	9.0	0
PB-C9.0-1		1
PB-C9.5-0	9.5	0
PB-C9.5-1		1
PB-C10.0-0	10.0	0
PB-C10.0-1		1
PB-C10.5-0	10.5	0
PB-C10.5-1		1
PB-C11.0-0	11.0	0
PB-C11.0-1		1

Model No.	Spec.(mm)	Grade
PB-C11.5-0	11.5	0
PB-C11.5-1		1
PB-C12.0-0	12.0	0
PB-C12.0-1		1
PB-C12.5-0	12.5	0
PB-C12.5-1		1
PB-C13.0-0	13.0	0
PB-C13.0-1		1
PB-C13.5-0	13.5	0
PB-C13.5-1		1
PB-C14.0-0	14.0	0
PB-C14.0-1		1
PB-C14.5-0	14.5	0
PB-C14.5-1		1
PB-C15.0-0	15.0	0
PB-C15.0-1		1
PB-C15.5-0	15.5	0
PB-C15.5-1		1
PB-C16.0-0	16.0	0
PB-C16.0-1		1
PB-C16.5-0	16.5	0
PB-C16.5-1		1
PB-C17.0-0	17.0	0
PB-C17.0-1		1
PB-C17.5-0	17.5	0
PB-C17.5-1		1
PB-C18.0-0	18.0	0
PB-C18.0-1		1
PB-C18.5-0	18.5	0
PB-C18.5-1		1
PB-C19.0-0	19.0	0
PB-C19.0-1		1
PB-C19.5-0	19.5	0
PB-C19.5-1		1

■ Ceramic Gauge Block (Individual)

Material: Ceramic Hardness HV1100-1400

Model No.	Spec.(mm)	Grade
PB-C20.0-0	20	0
PB-C20.0-1		1
PB-C20.5-0	20.5	0
PB-C20.5-1		1
PB-C21.0-0	21	0
PB-C21.0-1		1
PB-C21.5-0	21.5	0
PB-C21.5-1		1
PB-C22.0-0	22	0
PB-C22.0-1		1
PB-C22.5-0	22.5	0
PB-C22.5-1		1
PB-C23.0-0	23	0
PB-C23.0-1		1
PB-C23.5-0	23.5	0
PB-C23.5-1		1
PB-C24.0-0	24	0
PB-C24.0-1		1
PB-C24.5-0	24.5	0
PB-C24.5-1		1
PB-C25.0-0	25	0
PB-C25.0-1		1
PB-C30.0-0	30	0
PB-C30.0-1		1

Model No.	Spec.(mm)	Grade
PB-C40.0-0	40	0
PB-C40.0-1		1
PB-C41.3-0	41.3	0
PB-C41.3-1		1
PB-C50.0-0	50	0
PB-C50.0-1		1
PB-C60.0-0	60	0
PB-C60.0-1		1
PB-C70.0-0	70	0
PB-C70.0-1		1
PB-C75.0-0	75	0
PB-C75.0-1		1
PB-C80.0-0	80	0
PB-C80.0-1		1
PB-C90.0-0	90	0
PB-C90.0-1		1
PB-C100.0-0	100	0
PB-C100.0-1		1
PB-C125.0-0	125	0
PB-C125.0-1		1
PB-C131.4-0	131.4	0
PB-C131.4-1		1
PB-C150.0-0	150	0
PB-C150.0-1		1

Accuracy: according to DIN 861/ ISO 3650 standard
Each individual with calibration report

■ Steel Gauge Block (Individual)

Material : Hardened steel

dness : HV650~800

Model No.	Spec.(mm)	Grade
PB-0.3-1	0.3	1
PB-0.4-1	0.4	1
PB-0.5-0	0.5	0
PB-0.5-1		1
PB-0.6-0	0.6	0
PB-0.6-1		1
PB-0.7-0	0.7	0
PB-0.7-1		1
PB-0.8-0	0.8	0
PB-0.8-1		1
PB-0.9-0	0.9	0
PB-0.9-1		1
PB-1.0-0	1.0	0
PB-1.0-1		1
PB-1.0005-0	1.0005	0
PB-1.0005-1		1
PB-1.001-0	1.001	0
PB-1.001-1		1
PB-1.002-0	1.002	0
PB-1.002-1		1
PB-1.003-0	1.003	0
PB-1.003-1		1
PB-1.004-0	1.004	0
PB-1.004-1		1
PB-1.005-0	1.005	0
PB-1.005-1		1
PB-1.006-0	1.006	0
PB-1.006-1		1
PB-1.007-0	1.007	0
PB-1.007-1		1

Model No.	Spec.(mm)	Grade
PB-1.008-0	1.008	0
PB-1.008-1		1
PB-1.009-0	1.009	0
PB-1.009-1		1
PB-1.01-0	1.01	0
PB-1.01-1		1
PB-1.02-0	1.02	0
PB-1.02-1		1
PB-1.03-0	1.03	0
PB-1.03-1		1
PB-1.04-0	1.04	0
PB-1.04-1		1
PB-1.05-0	1.05	0
PB-1.05-1		1
PB-1.06-0	1.06	0
PB-1.06-1		1
PB-1.07-0	1.07	0
PB-1.07-1		1
PB-1.08-0	1.08	0
PB-1.08-1		1
PB-1.09-0	1.09	0
PB-1.09-1		1
PB-1.1-0	1.1	0
PB-1.1-1		1
PB-1.11-0	1.11	0
PB-1.11-1		1
PB-1.12-0	1.12	0
PB-1.12-1		1
PB-1.13-0	1.13	0
PB-1.13-1		1
PB-1.14-0	1.14	0
PB-1.14-1		1
PB-1.15-0	1.15	0
PB-1.15-1		1

Model No.	Spec.(mm)	Grade
PB-1.16-0	1.16	0
PB-1.16-1		1
PB-1.17-0	1.17	0
PB-1.17-1		1
PB-1.18-0	1.18	0
PB-1.18-1		1
PB-1.19-0	1.19	0
PB-1.19-1		1
PB-1.2-0	1.2	0
PB-1.2-1		1
PB-1.21-0	1.21	0
PB-1.21-1		1
PB-1.22-0	1.22	0
PB-1.22-1		1
PB-1.23-0	1.23	0
PB-1.23-1		1
PB-1.24-0	1.24	0
PB-1.24-1		1
PB-1.25-0	1.25	0
PB-1.25-1		1
PB-1.26-0	1.26	0
PB-1.26-1		1
PB-1.27-0	1.27	0
PB-1.27-1		1
PB-1.28-0	1.28	0
PB-1.28-1		1
PB-1.29-0	1.29	0
PB-1.29-1		1
PB-1.3-0	1.3	0
PB-1.3-1		1
PB-1.31-0	1.31	0
PB-1.31-1		1
PB-1.32-0	1.32	0
PB-1.32-1		1

*Accuracy: according to
DIN 861/ISO 3650 standard

*Each individual with calibration report

*Special specifications can be customized,
minimum order quantity:10 pieces

■ Steel Gauge Block (Individual)

Material : Hardened steel Hardness : HV650~800

Model No.	Spec.(mm)	Grade
PB-1.33-0	1.33	0
PB-1.33-1		1
PB-1.34-0	1.34	0
PB-1.34-1		1
PB-1.35-0	1.35	0
PB-1.35-1		1
PB-1.36-0	1.36	0
PB-1.36-1		1
PB-1.37-0	1.37	0
PB-1.37-1		1
PB-1.38-0	1.38	0
PB-1.38-1		1
PB-1.39-0	1.39	0
PB-1.39-1		1
PB-1.4-0	1.4	0
PB-1.4-1		1
PB-1.41-0	1.41	0
PB-1.41-1		1
PB-1.42-0	1.42	0
PB-1.42-1		1
PB-1.43-0	1.43	0
PB-1.43-1		1
PB-1.44-0	1.44	0
PB-1.44-1		1
PB-1.45-0	1.45	0
PB-1.45-1		1
PB-1.46-0	1.46	0
PB-1.46-1		1
PB-1.47-0	1.47	0
PB-1.47-1		1
PB-1.48-0	1.48	0
PB-1.48-1		1
PB-1.49-0	1.49	0
PB-1.49-1		1

Model No.	Spec.(mm)	Grade
PB-1.5-0	1.5	0
PB-1.5-1		1
PB-1.6-0	1.6	0
PB-1.6-1		1
PB-1.7-0	1.7	0
PB-1.7-1		1
PB-1.8-0	1.8	0
PB-1.8-1		1
PB-1.9-0	1.9	0
PB-1.9-1		1
PB-2.0-0	2.0	0
PB-2.0-1		1
PB-2.5-0	2.5	0
PB-2.5-1		1
PB-3.0-0	3.0	0
PB-3.0-1		1
PB-3.5-0	3.5	0
PB-3.5-1		1
PB-4.0-0	4.0	0
PB-4.0-1		1
PB-4.5-0	4.5	0
PB-4.5-1		1
PB-5.0-0	5.0	0
PB-5.0-1		1
PB-5.5-0	5.5	0
PB-5.5-1		1
PB-6.0-0	6.0	0
PB-6.0-1		1
PB-6.5-0	6.5	0
PB-6.5-1		1
PB-7.0-0	7.0	0
PB-7.0-1		1
PB-7.5-0	7.5	0
PB-7.5-1		1

Model No.	Spec.(mm)	Grade
PB-8.0-0	8.0	0
PB-8.0-1		1
PB-8.5-0	8.5	0
PB-8.5-1		1
PB-9.0-0	9.0	0
PB-9.0-1		1
PB-9.5-0	9.5	0
PB-9.5-1		1
PB-10.0-0	10.0	0
PB-10.0-1		1
PB-10.5-0	10.5	0
PB-10.5-1		1
PB-11.0-0	11.0	0
PB-11.0-1		1
PB-11.5-0	11.5	0
PB-11.5-1		1
PB-12.0-0	12.0	0
PB-12.0-1		1
PB-12.5-0	12.5	0
PB-12.5-1		1
PB-13.0-0	13.0	0
PB-13.0-1		1
PB-13.5-0	13.5	0
PB-13.5-1		1
PB-14.0-0	14.0	0
PB-14.0-1		1
PB-14.5-0	14.5	0
PB-14.5-1		1
PB-15.0-0	15.0	0
PB-15.0-1		1

*Accuracy: according to
DIN 861/ISO 3650 standard
*Each individual with calibration report
*Special specifications can be customized,
minimum order quantity:10 pieces

■ Steel Gauge Block (Individual)

Material : Hardened steel Hardness : HV650~800

Model No.	Spec.(mm)	Grade
PB-15.5-0	15.5	0
PB-15.5-1		1
PB-16.0-0	16.0	0
PB-16.0-1		1
PB-16.5-0	16.5	0
PB-16.5-1		1
PB-17.0-0	17.0	0
PB-17.0-1		1
PB-17.5-0	17.5	0
PB-17.5-1		1
PB-18.0-0	18.0	0
PB-18.0-1		1
PB-18.5-0	18.5	0
PB-18.5-1		1
PB-19.0-0	19.0	0
PB-19.0-1		1
PB-19.5-0	19.5	0
PB-19.5-1		1
PB-20.0-0	20.0	0
PB-20.0-1		1
PB-20.5-0	20.5	0
PB-20.5-1		1
PB-21.0-0	21.0	0
PB-21.0-1		1
PB-21.5-0	21.5	0
PB-21.5-1		1
PB-22.0-0	22.0	0
PB-22.0-1		1
PB-22.5-0	22.5	0
PB-22.5-1		1
PB-23.0-0	23.0	0
PB-23.0-1		1
PB-23.5-0	23.5	0
PB-23.5-1		1

Model No.	Spec.(mm)	Grade
PB-24.0-0	24.0	0
PB-24.0-1		1
PB-24.5-0	24.5	0
PB-24.5-1		1
PB-25.0-0	25	0
PB-25.0-1		1
PB-30.0-0	30	0
PB-30.0-1		1
PB-35.0-0	35	0
PB-35.0-1		1
PB-40.0-0	40	0
PB-40.0-1		1
PB-45.0-0	45	0
PB-45.0-1		1
PB-50.0-0	50	0
PB-50.0-1		1
PB-55.0-0	55	0
PB-55.0-1		1
PB-60.0-0	60	0
PB-60.0-1		1
PB-65.0-0	65	0
PB-65.0-1		1
PB-70.0-0	70	0
PB-70.0-1		1
PB-75.0-0	75	0
PB-75.0-1		1
PB-80.0-0	80	0
PB-80.0-1		1
PB-85.0-0	85	0
PB-85.0-1		1
PB-90.0-0	90	0
PB-90.0-1		1
PB-95.0-0	95	0
PB-95.0-1		1

Model No.	Spec.(mm)	Grade
PB-100.0-0	100	0
PB-100.0-1		1
PB-125.0-0	125	0
PB-125.0-1		1
PB-150.0-0	150	0
PB-150.0-1		1
PB-175.0-0	175	0
PB-175.0-1		1
PB-200.0-0	200	0
PB-200.0-1		1
PB-250.0-0	250	0
PB-250.0-1		1
PB-300.0-0	300	0
PB-300.0-1		1
PB-400.0-0	400	0
PB-400.0-1		1
PB-500.0-0	500	0
PB-500.0-1		1
PB-600.0-0	600	0
PB-600.0-1		1
PB-700.0-0	700	0
PB-700.0-1		1
PB-800.0-0	800	0
PB-800.0-1		1
PB-900.0-0	900	0
PB-900.0-1		1
PB-1000.0-0	1000	0
PB-1000.0-1		1

*Accuracy: according to

DIN 861/ISO 3650 standard

*Each individual with calibration report

*Special specifications can be customized, minimum order quantity:10 pieces

■ Tungsten Carbide Gauge Block (Individual)

Material: Tungsten carbide Hardness HV1300-1600

Model No.	Spec.(mm)	Grade
PB-T0.5-0	0.5	0
PB-T0.5-1		1
PB-T1.0-0	1.0	0
PB-T1.0-1		1
PB-T1.0005-0	1.0005	0
PB-T1.0005-1		1
PB-T1.001-0	1.001	0
PB-T1.001-1		1
PB-T1.002-0	1.002	0
PB-T1.002-1		1
PB-T1.003-0	1.003	0
PB-T1.003-1		1
PB-T1.004-0	1.004	0
PB-T1.004-1		1
PB-T1.005-0	1.005	0
PB-T1.005-1		1
PB-T1.006-0	1.006	0
PB-T1.006-1		1
PB-T1.007-0	1.007	0
PB-T1.007-1		1
PB-T1.008-0	1.008	0
PB-T1.008-1		1
PB-T1.009-0	1.009	0
PB-T1.009-1		1
PB-T1.01-0	1.01	0
PB-T1.01-1		1
PB-T1.02-0	1.02	0
PB-T1.02-1		1
PB-T1.03-0	1.03	0
PB-T1.03-1		1
PB-T1.04-0	1.04	0
PB-T1.04-1		1
PB-T1.05-0	1.05	0
PB-T1.05-1		1

Model No.	Spec.(mm)	Grade
PB-T1.06-0	1.06	0
PB-T1.06-1		1
PB-T1.07-0	1.07	0
PB-T1.07-1		1
PB-T1.08-0	1.08	0
PB-T1.08-1		1
PB-T1.09-0	1.09	0
PB-T1.09-1		1
PB-T1.1-0	1.1	0
PB-T1.1-1		1
PB-T1.11-0	1.11	0
PB-T1.11-1		1
PB-T1.12-0	1.12	0
PB-T1.12-1		1
PB-T1.13-0	1.13	0
PB-T1.13-1		1
PB-T1.14-0	1.14	0
PB-T1.14-1		1
PB-T1.15-0	1.15	0
PB-T1.15-1		1
PB-T1.16-0	1.16	0
PB-T1.16-1		1
PB-T1.17-0	1.17	0
PB-T1.17-1		1
PB-T1.18-0	1.18	0
PB-T1.18-1		1
PB-T1.19-0	1.19	0
PB-T1.19-1		1
PB-T1.2-0	1.2	0
PB-T1.2-1		1
PB-T1.21-0	1.21	0
PB-T1.21-1		1
PB-T1.22-0	1.22	0
PB-T1.22-1		1

Model No.	Spec.(mm)	Grade
PB-T1.23-0	1.23	0
PB-T1.23-1		1
PB-T1.24-0	1.24	0
PB-T1.24-1		1
PB-T1.25-0	1.25	0
PB-T1.25-1		1
PB-T1.26-0	1.26	0
PB-T1.26-1		1
PB-T1.27-0	1.27	0
PB-T1.27-1		1
PB-T1.28-0	1.28	0
PB-T1.28-1		1
PB-T1.29-0	1.29	0
PB-T1.29-1		1
PB-T1.30-0	1.30	0
PB-T1.30-1		1
PB-T1.31-0	1.31	0
PB-T1.31-1		1
PB-T1.32-0	1.32	0
PB-T1.32-1		1
PB-T1.33-0	1.33	0
PB-T1.33-1		1
PB-T1.34-0	1.34	0
PB-T1.34-1		1
PB-T1.35-0	1.35	0
PB-T1.35-1		1
PB-T1.36-0	1.36	0
PB-T1.36-1		1
PB-T1.37-0	1.37	0
PB-T1.37-1		1
PB-T1.38-0	1.38	0
PB-T1.38-1		1
PB-T1.39-0	1.39	0
PB-T1.39-1		1

■ Tungsten Carbide Gauge Block (Individual)

Material: Tungsten carbide Hardness HV1300-1600

Model No.	Spec.(mm)	Grade
PB-T1.4-0	1.4	0
PB-T1.4-1		1
PB-T1.41-0	1.41	0
PB-T1.41-1		1
PB-T1.42-0	1.42	0
PB-T1.42-1		1
PB-T1.43-0	1.43	0
PB-T1.43-1		1
PB-T1.44-0	1.44	0
PB-T1.44-1		1
PB-T1.45-0	1.45	0
PB-T1.45-1		1
PB-T1.46-0	1.46	0
PB-T1.46-1		1
PB-T1.47-0	1.47	0
PB-T1.47-1		1
PB-T1.48-0	1.48	0
PB-T1.48-1		1
PB-T1.49-0	1.49	0
PB-T1.49-1		1
PB-T1.5-0	1.5	0
PB-T1.5-1		1
PB-T1.6-0	1.6	0
PB-T1.6-1		1
PB-T1.7-0	1.7	0
PB-T1.7-1		1
PB-T1.8-0	1.8	0
PB-T1.8-1		1
PB-T1.9-0	1.9	0
PB-T1.9-1		1
PB-T2.0-0	2.0	0
PB-T2.0-1		1
PB-T2.5-0	2.5	0
PB-T2.5-1		1

Model No.	Spec.(mm)	Grade
PB-T3.0-0	3.0	0
PB-T3.0-1		1
PB-T3.5-0	3.5	0
PB-T3.5-1		1
PB-T4.0-0	4.0	0
PB-T4.0-1		1
PB-T4.5-0	4.5	0
PB-T4.5-1		1
PB-T5.0-0	5.0	0
PB-T5.0-1		1
PB-T5.5-0	5.5	0
PB-T5.5-1		1
PB-T6.0-0	6.0	0
PB-T6.0-1		1
PB-T6.5-0	6.5	0
PB-T6.5-1		1
PB-T7.0-0	7.0	0
PB-T7.0-1		1
PB-T7.5-0	7.5	0
PB-T7.5-1		1
PB-T8.0-0	8.0	0
PB-T8.0-1		1
PB-T8.5-0	8.5	0
PB-T8.5-1		1
PB-T9.0-0	9.0	0
PB-T9.0-1		1
PB-T9.5-0	9.5	0
PB-T9.5-1		1
PB-T10.0-0	10.0	0
PB-T10.0-1		1
PB-T10.5-0	10.5	0
PB-T10.5-1		1
PB-T11.0-0	11.0	0
PB-T11.0-1		1

Model No.	Spec.(mm)	Grade
PB-T11.5-0	11.5	0
PB-T11.5-1		1
PB-T12.0-0	12.0	0
PB-T12.0-1		1
PB-T12.5-0	12.5	0
PB-T12.5-1		1
PB-T13.0-0	13.0	0
PB-T13.0-1		1
PB-T13.5-0	13.5	0
PB-T13.5-1		1
PB-T14.0-0	14.0	0
PB-T14.0-1		1
PB-T14.5-0	14.5	0
PB-T14.5-1		1
PB-T15.0-0	15.0	0
PB-T15.0-1		1
PB-T15.5-0	15.5	0
PB-T15.5-1		1
PB-T16.0-0	16.0	0
PB-T16.0-1		1
PB-T16.5-0	16.5	0
PB-T16.5-1		1
PB-T17.0-0	17.0	0
PB-T17.0-1		1
PB-T17.5-0	17.5	0
PB-T17.5-1		1
PB-T18.0-0	18.0	0
PB-T18.0-1		1
PB-T18.5-0	18.5	0
PB-T18.5-1		1
PB-T19.0-0	19.0	0
PB-T19.0-1		1
PB-T19.5-0	19.5	0
PB-T19.5-1		1

■ Tungsten Carbide Gauge Block (Individual)

Material: Tungsten carbide Hardness HV1300-1600

Model No.	Spec.(mm)	Grade
PB-T20.0-0	20	0
PB-T20.0-1		1
PB-T20.5-0	20.5	0
PB-T20.5-1		1
PB-T21.0-0	21	0
PB-T21.0-1		1
PB-T21.5-0	21.5	0
PB-T21.5-1		1
PB-T22.0-0	22	0
PB-T22.0-1		1
PB-T22.5-0	22.5	0
PB-T22.5-1		1
PB-T23.0-0	23	0
PB-T23.0-1		1
PB-T23.5-0	23.5	0
PB-T23.5-1		1
PB-T24.0-0	24	0
PB-T24.0-1		1
PB-T24.5-0	24.5	0
PB-T24.5-1		1

Model No.	Spec.(mm)	Grade
PB-T25.0-0	25	0
PB-T25.0-1		1
PB-T30.0-0	30	0
PB-T30.0-1		1
PB-T40.0-0	40	0
PB-T40.0-1		1
PB-T50.0-0	50	0
PB-T50.0-1		1
PB-T60.0-0	60	0
PB-T60.0-1		1
PB-T70.0-0	70	0
PB-T70.0-1		1
PB-T75.0-0	75	0
PB-T75.0-1		1
PB-T80.0-0	80	0
PB-T80.0-1		1
PB-T90.0-0	90	0
PB-T90.0-1		1
PB-T100.0-0	100	0
PB-T100.0-1		1

Accuracy: according to DIN 861/ ISO 3650 standard
Each individual with calibration report

ACCESSORIES FOR RECTANGULAR GAUGE BLOCKS



P9516-601 22pcs

P9516-602 14pcs

unit:mm

Assortment of Accessories		
Items	Model No.	
	P9516-601	P9516-602
I-Holder 15 - 60mm		1
I-Holder 5 - 100mm	1	1
I-Holder 15 - 160mm	1	1
I-Holder 20 - 250mm	1	1
A-Holder base 35mm	1	1
E-Half round jaw 2mm x 2 pcs	1	1
E-Half round jaw 5mm x 2 pcs	1	1
E-Half round jaw 8mm x 2 pcs	1	1
E-Half round jaw 12mm x 2 pcs	1	
E-Half round jaw 20mm x 2 pcs	1	
H-Plain jaw x 2 pcs.	1	
B-Scriber point	1	1
C-Center point	1	1
D-Tram point x 2 pcs.	1	
K-Triangular straight edge 100mm	1	1
K-Triangular straight edge 160mm	1	

■ To expand the variety of rectangular gauge block applications, We offers the Gauge Block Accessories Set. By assembling the items in the set, your gauge blocks are easily and quickly changed into a precision measuring system.

A-Holder base

Measure a height on the surface plate and scribes a workpiece if used with the holder



B-Scriber point

Scribes a workpiece if used with the holder and holder base



C-Center point

Scribes a workpiece if used with the holder and holder base



D-Tram point

Inspects the scale of the height gage, etc., if used with the holder and holder base



(2pcs./set)

E-Half round jaws/Radius Cylindrical

Measures an outside or inside diameter if used with a pair of jaws and the holder



(2pcs./set)

F-Flat Jaws/Parallel Jaws

Flat Jaws have two sides lapped and accurately flat, parallel and to size.



(2pcs./set)

G-Reference Jaws

Reference Jaws are used for spacing blocks within limits.



(2pcs./set)

H-Plain Jaws

Measures an outside or inside diameter if used with a pair of jaws and the holder



(2pcs./set)

I-Holders

Used as a clamp if using plain jaws, scriber point, etc.



J-Holding device

Used as a clamp if using plain jaws, scriber point, etc.



K-Triangular straight edge



ACCESSORIES FOR GAUGE BLOCKS



Model no.P9808-17 17Pcs.

unit:mm

DESCRIPTION	Range mm/in	P9808-17
Holding Device	50mm	1 Pc
	100mm	1 Pc
	200mm	1 Pc
Radius Cylingrical Jaws	R2x8mm	1 Pair
	R5x15mm	1 Pair
	R10x40mm	1 Pair
Parallel Jaws	100mm	1 Pair
Straight Edge	100mm	1 Pc
Scriber Point		1 Pc
Center Point		1 Pc
Bevelled End Jaws	60mm	1 Pair
Base block	25mm	1 Pc



Model no.P9808-14 14Pcs.

unit:mm

DESCRIPTION	Range mm/in	P9808-14
Holding Device	100mm	1 Pc
	200mm	1 Pc
	300mm	1 Pc
Radius Cylingrical Jaws	R2x8mm	1 Pair
	R5x15mm	1 Pair
	R10x40mm	1 Pair
	R15	1 Pair
Parallel Jaws	100mm	1 Pair
Straight Edge Ruler	200mm	1 Pc

ACCESSORIES FOR GAUGE BLOCKS



Model no.P9808-8 8Pcs

unit:mm

DESCRIPTION	Range mm/in	P808-8
Holding Device	100mm	1 Pc
	200mm	1 Pc
Radius Cylingrical Jaws	R2x8mm	1 Pair
	R5x15mm	1 Pair
	R10x40mm	1 Pair

GAUGE BLOCK HOLDER

- Made of aluminum
- Used with individual steel gage blocks as Go and No-Go gage

Model No	Applicable gage block sizes
P9160-5	1.5-5mm
P9160-4	5-10mm
P9160-3	10-15mm
P9160-2	15-20mm
P9160-1	20-25mm



To be used as Go and No-Go gage



MICROMETER INSPECTION GAGE BLOCK SET

- Holder made of aluminium, anodized
- Gauge block made of special steel, hardened, acc. to DIN EN ISO 3650/1
- Optical flat with flatness 0.1 μm

optical flat included



Model No	Material	Gage blocks included in set	Applicable micrometer
P9160-10	alloy steel	2.5mm, 5.1mm, 7.7mm, 10.3mm, 12.9mm, 15mm, 17.6mm, 20.2mm, 22.8mm, 25mm	0-25mm

BORE GAGE SETTING MASTER KIT

- Setting device
- Quick-adjust holder for fast adjustment



(36pcs/inch or 33pcs/mm)

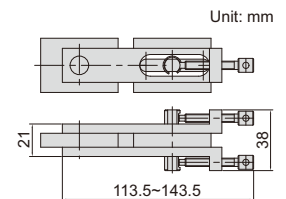
NOTE

1. For best accuracy, remove all excess preservative from the gage blocks and flat jaws (G) before use.
2. Care should be taken to ensure the bore gage is kept as vertical as possible and not tilted to either side while rocking the bore gage, which could result in a false reading. It is also recommended to sweep the bore at least one time after the initial setting to insure a good repeatable measurement.
3. It is recommended to keep a light coat of preservative on the gage blocks and base anvil while the gage is being stored to reduce the possibility of corrosion.

Model No	Intenal Capacity	Gage Block Set	Grade	Tolerance
P9110-36	0-6"	36 pieces	economy	$\pm 00005''$
P9111-33	0-160mm	33pieces	2	$\pm 1.2\mu\text{m}$

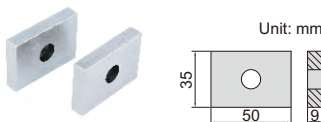
GAUGE BLOCK HOLDER P9120-1

- For gage blocks over 100mm with clamping holes

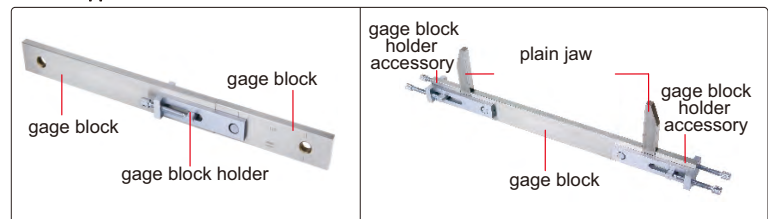


GAGE BLOCK HOLDER ACCESSORY

Model No.
P9120-2

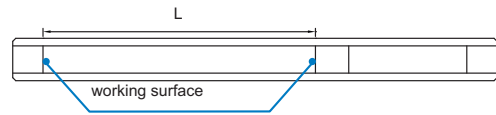


Application



ACCESSORIES FOR GAUGE BLOCKS

Gauge holder



Range from 100 - 300 mm

Model No.	Clamp Size mm L
P9121-1	0 -50
P9121-2	0 -100
P9121-3	100 -200
P9121-4	200 -300
P9121-5	300 -400
P9121-6	400 -500

ACCESSORIES FOR GAUGE BLOCKS



P9122-9



P9122-3

R 10 x 20



P9122-4



P9122-2

R 5 x 15



P9122-5



P9122-1

R 2.5 x 10



P9122-7



P9122-8

30 x 30°



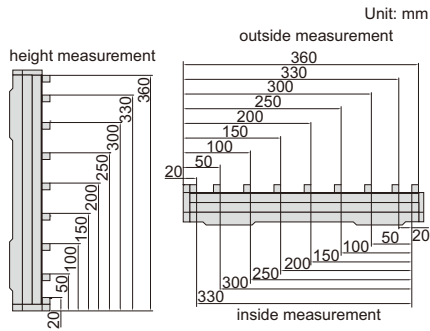
P9122-6

Model No.	Size mm	Pcs.	Size (L x B x H) mm	Description
P9122-1	R 2.5 x 10	2	40 x 9 x 8	Jaws
P9122-2	R 5 x 15	2	45 x 9 x 8	Jaws
P9122-3	R 10 x 20	2	70 x 9 x 10.5	Jaws
P9122-4	15	1	45 x 9 x 8	Scriber
P9122-5	∅ 8 x 8	1	45 x 9 x 8	Center point
P9122-6		2	75 x 9 x 15	Straight jaws
P9122-7		2	110 x 9 x 25	Straight jaws
P9122-8	30 x 30°	1	60 x 9 x 8	Knife jaw
P9122-9	100 x 70 x 25	1		Base

CHECK MASTER

984GHE8F-

- For checking the accuracy of measuring tools like calipers, height gage etc.
- Can be used in vertical and horizontal orientation
- Supplied with factory inspection certificate



Ceramic optional

unit:mm

Code	Size	Range of inside measurement	Range of outside measurement	Range of height measurement	Accuracy
P9515-740	0-300mm	20, 50, 100, 150, 200, 250, 300, 330	20, 50, 100, 150, 200, 250, 300, 330, 360	20, 50, 100, 150, 200, 250, 300, 330, 360	±3μm
P9515-742	0-600mm	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 630	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 630, 660	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 630, 660	±5μm
P9515-744	0-1000mm	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1030	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1030, 1060	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1030, 1060	±7μm

WORKING STANDARD SCALES

FEATURES:

- High precision glass scales
- Ideal for checking magnification accuracy of profile projectors, video measuring machines
- Glass material: Sodium glass
- Thermal expansion coefficient: 8.6x10⁻⁶/°C



unit:mm

Model No	Length (mm)	Width (mm)	Thickness(mm)	Graduation	Accuray (μm)
PBL01—100	130	30	5	0.1mm,0.5mm,1mm	1
PBL01—200	230	30	5	0.1mm,0.5mm,1mm	1
PBL01—300	330	30	5	0.1mm,0.5mm,1mm	1
PBL01—400	430	30	5	0.1mm,0.5mm,1mm	1
PBL01—500	530	30	5	0.1mm,0.5mm,1mm	1
PBL01—600	630	30	5	1mm	3
PBL01—700	730	30	5	1mm	3
PBL01—800	830	30	5	1mm	8
PBL01—1000	1030	30	5	1mm	10

GLASS SCALE WITH MAGNIFIERS

FEATURES:

- Glass Scale consists of a transparent glass plate, which has graduations marked by means of photo-printing.
- This scale provides accurate readings since it does not screen an object to be measured from the eyes of the user. The glass plate has a function to resist changes because of temperature changes.
- The 300S, 500S, 700S and 1000S are supplied with 2 10x. The glass scale thickness = 10 mm.
- Tolerance: +/- (15 + 15/1,000 L)μm
- Temperature Coefficient: 8.5 – 9 x 10⁻⁶/°C
- Line width: 0.02 mm
- Glass scales are shipped in protective cases.



unit:mm

Model No.	Length of Scale	Tolerance	Min. Scale Division	Loupe	Size (mm)
P972-300S	300 mm	+/- 0.0195 mm	0.1 mm	10 x 2 pcs.	10x50x360
P972-500S	500 mm	+/- 0.0225 mm	0.1 mm	10 x 2 pcs.	10x50x560
P972-700S	700 mm	+/- 0.0255 mm	0.1 mm	10 x 2 pcs.	10x50x760
P972-1000S	1000 mm	+/- 0.3 mm	0.1 mm	10 x 2 pcs.	10x50x1060

OPTICAL PARALLEL

FEATURES:

- Designed to inspect parallelism and flatness
- Each set consists of 4 thickness
- Supplied in aluminum box



unit:mm

Model No.	Size mm	Thickness (mm)	Parallelism	Flatness
P9022-25-1	Optical parallel 0-25mm	15.00, 15.12, 15.25, 15.39	0.06μm	<0.1UM
P9022-25-2		15.12, 15.25, 15.37, 15.50		
P9022-25-3		15.25, 15.37, 15.50, 15.62		
P9022-25-4		15.37, 15.50, 15.62, 15.75		
P9022-25-5		15.50, 15.62, 15.75, 15.87		
P9022-25-6		15.62, 15.75, 15.87, 16.00		
P9022-50-1	Optical parallel 25-50mm	40.00, 40.12, 40.25, 40.37	0.08μm	<0.1UM
P9022-50-2		40.12, 40.25, 40.37, 40.50		
P9022-50-3		40.25, 40.37, 40.50, 40.62		
P9022-50-4		40.37, 40.50, 40.62, 40.75		
P9022-50-5		40.50, 40.62, 40.75, 40.87		
P9022-50-6		40.62, 40.75, 40.87, 41.00		

SINGLE OPTICAL FLAT

FEATURES:

- Optical flats are flat lenses, single face and double faces accurately polished for inspecting the flatness of gauge block or platen reference surfaces, micrometer contact faces or any other very flat surface of high reflectivity.
- They are circular in form with diameters ranging from 30 to 1000mm
- Thickness varies from 15 to 60mm
- Generally made from quartz, having a very accurate surface to transmit light.
- Supplied in aluminum box



unit:mm

Model No.	Product	Diameter (mm)	Thickness (mm)	Flatness
P9021-30S	Single face	Φ30	15	0.03μm
P9021-30D	Double face	Φ30	15	0.03μm
P9021-45S	Single face	Φ45	15	0.03μm
P9021-45D	Double face	Φ45	15	0.03μm
P9021-50S	Single face	Φ50	20	0.03μm
P9021-50D	Double face	Φ50	20	0.03μm
P9021-60S	Single face	Φ60	20	0.03μm
P9021-60D	Double face	Φ60	20	0.03μm
P9021-80S	Single face	Φ80	20	0.05μm
P9021-80D	Double face	Φ80	20	0.05μm
P9021-100S	Single face	Φ100	25	0.05μm
P9021-100D	Double face	Φ100	25	0.05μm
P9021-150S	Single face	Φ150	30	0.05μm
P9021-150D	Double face	Φ150	30	0.05μm
P9021-200S	Single face	Φ200	40	0.08μm
P9021-200D	Double face	Φ200	40	0.08μm
P9021-250S	Single face	Φ250	40	0.1μm
P9021-250D	Double face	Φ250	40	0.1μm
P9021-300S	Single face	Φ300	40	0.1μm
P9021-300D	Double face	Φ300	40	0.1μm
P9021-400S	Single face	Φ400	50	0.25μm
P9021-500S	Single face	Φ500	50	0.4μm
P9021-600S	Single face	Φ600	40	0.6μm
P9021-700S	Single face	Φ700	50	0.6μm
P9021-800S	Single face	Φ800	60	0.6μm
P9021-900S	Single face	Φ900	60	0.8μm
P9021-1000S	Single face	Φ1000	60	0.8μm

STEEL PIN GAUGE

FEATURES:

- Measure hole size, calculate distance between holes, gage slot width, use for GO/NO GO gage
- Optional accuracy: ±0.002mm, 0.0025mm, 0.0015mm, and 0.0005mm (-0.0001", +0.0002", -0.0002", 0.0004")
- Meets DIN 2269
- Steps can be special sizes
- Hardness HRC62-66
- Made of steel, length 50mm, 70mm optional
- Packed in plastic box or wooden box



NOTES:

CERAMIC PIN GAUGE,
TUNGSTEN CARBIDE PIN
GAUGE ALSO OPTIONAL

**70mm and other
sizes optional**

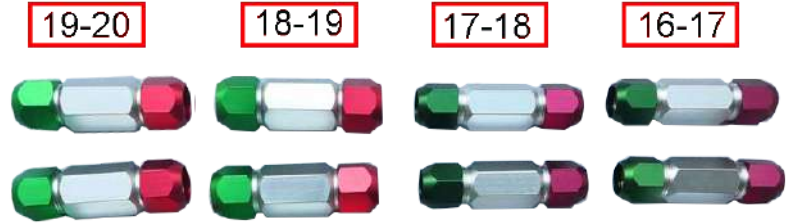
**Individual pin gages
customized**

Model No	Size(mm)	Quantity (pcs)	Step mm	Accuracy
METRIC SIZE				
P9020-71-1	0.30 - 1.00	71	0.01	±0.001mm
P9020-100-2	1.01 - 2.00	100	0.01	±0.001mm
P9020-100-3	2.01 - 3.00	100	0.01	±0.001mm
P9020-100-4	3.01 - 4.00	100	0.01	±0.001mm
P9020-100-5	4.01 - 5.00	100	0.01	±0.001mm
P9020-100-6	5.01 - 6.00	100	0.01	±0.001mm
P9020-100-7	6.01 - 7.00	100	0.01	±0.001mm
P9020-100-8	7.01 - 8.00	100	0.01	±0.001mm
P9020-100-9	8.01 - 9.00	100	0.01	±0.001mm
P9020-100-10	9.01 - 10.00	100	0.01	±0.001mm
P9020-100-11	10.01 - 11.00	100	0.01	±0.001mm
P9020-100-12	11.01 - 12.00	100	0.01	±0.001mm
P9020-100-13	12.01 - 13.00	100	0.01	±0.001mm
P9020-100-14	13.01 - 14.00	100	0.01	±0.002mm
P9020-100-15	14.01 - 15.00	100	0.01	±0.002mm
P9020-100-16	15.01 - 16.00	100	0.01	±0.002mm
P9020-100-17	16.01 - 17.00	100	0.01	±0.002mm
P9020-100-18	17.01 - 18.00	100	0.01	±0.002mm
P9020-100-19	18.01 - 19.00	100	0.01	±0.002mm
P9020-100-20	19.01 - 20.00	100	0.01	±0.002mm
P9020-100-21	20.01 - 21.00	100	0.01	±0.002mm
P9020-100-22	21.01 - 22.00	100	0.01	±0.002mm
P9020-100-23	22.01 - 23.00	100	0.01	±0.002mm
P9020-100-24	23.01 - 24.00	100	0.01	±0.002mm
P9020-100-25	24.01 - 25.00	100	0.01	±0.002mm
P9020-100-26	25.01 - 26.00	100	0.01	±0.002mm
P9020-100-27	26.01 - 27.00	100	0.01	±0.002mm
P9020-100-28	27.01 - 28.00	100	0.01	±0.002mm
P9020-100-29	28.01 - 29.00	100	0.01	±0.002mm
P9020-100-30	29.01 - 30.00	100	0.01	±0.002mm
IMPERIAL SIZE				
P9020-50-0.06	0 .011 to .060	50	0.001"	+0.0001"
P9020-50-0.0605	0 .0115 to .0605	50	0.001"	+0.0001"
P9020-190-0.25	0 .061 to .250	190	0.001"	+0.0001"
P9020-190-0.2505	0.0615 to .2505	190	0.001"	+0.0001"
P9020-240-0.25	0.011 to .250	240	0.001"	+0.0001"
P9020-240-0.2505	0 .0115 to .2505	240	0.001"	+0.0001"
P9020-250-0.500	0 .251 to .500	250	0.001"	+0.0001"
P9020-250-0.5005	0 .2515 to .5005	250	0.001"	+0.0001"
P9020-125-0.625	0.501 to .625	125	0.001"	+0.0001"
P9020-125-0.6255	0 .5015 to .6255	125	0.001"	+0.0001"
P9020-125-0.750	0.626 to .750	125	0.001"	+0.0001"
P9020-125-0.7505	0.6265 to .7505	125	0.001"	+0.0001"
P9020-82-0.832	0.751 to .832	82	0.001"	+0.0001"
P9020-82-0.8325	0.7515 to .8325	82	0.001"	+0.0001"
P9020-84-0.916	0.833 to .916	84	0.001"	+0.0001"
P9020-84-0.9165	0.8335 to .9165	84	0.001"	+0.0001"
P9020-84-1.000	0.917 to 1.000	84	0.001"	+0.0001"
P9020-84-1.0005	0.9175 to 1.0005	84	0.001"	+0.0001"

PIN GAUGE HANDLE

FEATURES:

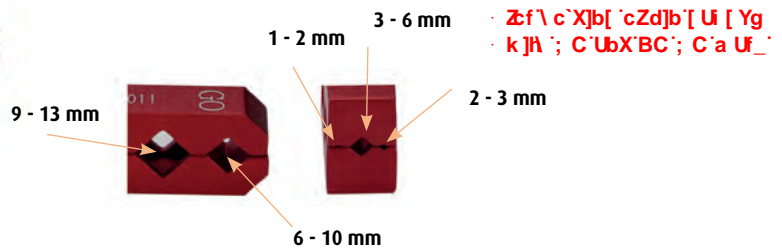
- High quality Aluminum material
- Adjustable clamp
- Green(Go) and Red(NoGo)



unit:mm

Model No	For pin gauge size mm	Length mm	Diameter mm
P9508-001	0.3-1mm	58mm	9mm
P9508-002	1-2mm	58mm	9mm
P9508-003	2-3mm	58mm	9mm
P9508-004	3-4mm	58mm	9mm
P9508-005	4-5mm	80mm	12mm
P9508-006	5-6mm	80mm	12mm
P9508-007	6-7mm	88mm	14mm
P9508-008	7-8mm	88mm	14mm
P9508-009	8-9mm	90mm	16mm
P9508-010	9-10mm	90mm	16mm
P9508-011	10-11mm	90mm	17mm
P9508-012	11-12mm	90mm	17mm
P9508-013	12-13mm	90mm	19mm
P9508-014	13-14mm	90mm	19mm
P9508-015	14-15mm	90mm	21mm
P9508-016	15-16mm	90mm	21mm
P9508-017	16-17mm	90mm	24mm
P9508-018	17-18mm	90mm	24mm
P9508-019	18-19mm	90mm	26mm
P9508-020	19-20mm	90mm	26mm

PIN GAUGE HANDLE



Model No.	for pin gage size	Length mm
P9508-100	1-13mm	113mm

3 WIRE GAUGE

- The wire gauges are a most reliable tool for measuring the pitch diameter of the external thread, the most important dimension of a thread.



Other sizes optional

unit:mm

Class	Measuring deviation μm	Roundness tolerance μm
0	0.25	0.25
1	± 0.5	0.5

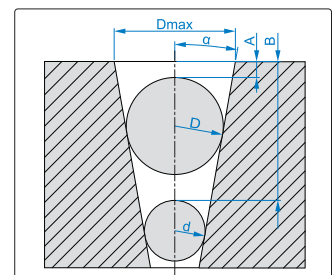
Model No	Model No	Wire gauge	Model No	Model No	Wire gauge
class 0	class 1	diameter (mm)	class 0	class 1	diameter (mm)
P3WG-001	P3WG-101	0.118 1SET/3PCS	P3WG-028	P3WG-128	2.020 1SET/3PCS
P3WG-002	P3WG-102	0.142 1SET/3PCS	P3WG-029	P3WG-129	2.050 1SET/3PCS
P3WG-003	P3WG-103	0.170 1SET/3PCS	P3WG-030	P3WG-130	2.071 1SET/3PCS
P3WG-004	P3WG-104	0.185 1SET/3PCS	P3WG-031	P3WG-131	2.217 1SET/3PCS
P3WG-005	P3WG-105	0.201 1SET/3PCS	P3WG-032	P3WG-132	2.311 1SET/3PCS
P3WG-006	P3WG-106	0.232 1SET/3PCS	P3WG-033	P3WG-133	2.595 1SET/3PCS
P3WG-007	P3WG-107	0.250 1SET/3PCS	P3WG-034	P3WG-134	2.866 1SET/3PCS
P3WG-008	P3WG-108	0.260 1SET/3PCS	P3WG-035	P3WG-135	2.886 1SET/3PCS
P3WG-009	P3WG-109	0.291 1SET/3PCS	P3WG-036	P3WG-136	3.106 1SET/3PCS
P3WG-010	P3WG-110	0.343 1SET/3PCS	P3WG-037	P3WG-137	3.177 1SET/3PCS
P3WG-011	P3WG-111	0.402 1SET/3PCS	P3WG-038	P3WG-138	3.287 1SET/3PCS
P3WG-012	P3WG-112	0.433 1SET/3PCS	P3WG-039	P3WG-139	3.310 1SET/3PCS
P3WG-013	P3WG-113	0.461 1SET/3PCS	P3WG-040	P3WG-140	3.468 1SET/3PCS
P3WG-014	P3WG-114	0.511 1SET/3PCS	P3WG-041	P3WG-141	3.550 1SET/3PCS
P3WG-015	P3WG-115	0.572 1SET/3PCS	P3WG-042	P3WG-142	3.580 1SET/3PCS
P3WG-016	P3WG-116	0.742 1SET/3PCS	P3WG-043	P3WG-143	3.666 1SET/3PCS
P3WG-017	P3WG-117	0.796 1SET/3PCS	P3WG-044	P3WG-144	4.091 1SET/3PCS
P3WG-018	P3WG-118	0.866 1SET/3PCS	P3WG-045	P3WG-145	4.120 1SET/3PCS
P3WG-019	P3WG-119	1.008 1SET/3PCS	P3WG-046	P3WG-146	4.141 1SET/3PCS
P3WG-020	P3WG-120	1.047 1SET/3PCS	P3WG-047	P3WG-147	4.211 1SET/3PCS
P3WG-021	P3WG-121	1.157 1SET/3PCS	P3WG-048	P3WG-148	4.400 1SET/3PCS
P3WG-022	P3WG-122	1.302 1SET/3PCS	P3WG-049	P3WG-149	4.773 1SET/3PCS
P3WG-023	P3WG-123	1.441 1SET/3PCS	P3WG-050	P3WG-150	5.150 1SET/3PCS
P3WG-024	P3WG-124	1.553 1SET/3PCS	P3WG-051	P3WG-151	5.176 1SET/3PCS
P3WG-025	P3WG-125	1.591 1SET/3PCS	P3WG-052	P3WG-152	5.493 1SET/3PCS
P3WG-026	P3WG-126	1.732 1SET/3PCS	P3WG-053	P3WG-153	6.212 1SET/3PCS
P3WG-027	P3WG-127	1.833 1SET/3PCS	P3WG-054	P3WG-154	6.585 1SET/3PCS

STEEL BALL SET

- To measure diameter and angle of taper holes. Each size has a pair of steel ball
- Material: tool steel
- Hardness: HRC63
- Diameter accuracy: $\pm 2\mu\text{m}$
- Roundness: $0.6\mu\text{m}$



Calculate angle (α) and diameter (D_{max}) according to the ball diameter (D , d), height (A) and depth (B)



Model No.	steel ball size	Length mm
P9509-25	25 pairs	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25

PLAIN PLUG GAGE

FEATURES:

- Tolerance to DIN 7164 and DIN 2245
- Measuring body made of first class gauge steel, hardened, stress-relieved, ground, and lapped
- Plug gauge with fit H7
- Special sizes are available upon request



unit:mm

Model No.	Size (Ømm)
P9025-M2	2
P9025-M3	3
P9025-M4	4
P9025-M5	5
P9025-M6	6
P9025-M7	7
P9025-M8	8
P9025-M9	9
P9025-M10	10
P9025-M11	11
P9025-M12	12
P9025-M13	13
P9025-M14	14
P9025-M15	15
P9025-M16	16
P9025-M17	17
P9025-M18	18
P9025-M19	19
P9025-M20	20
P9025-M21	21
P9025-M22	22
P9025-M23	23

Model No.	Size (Ømm)
P9025-M24	24
P9025-M25	25
P9025-M26	26
P9025-M27	27
P9025-M28	28
P9025-M30	30
P9025-M32	32
P9025-M33	33
P9025-M34	34
P9025-M35	35
P9025-M36	36
P9025-M37	37
P9025-M38	38
P9025-M40	40
P9025-M42	42
P9025-M43	43
P9025-M44	44
P9025-M45	45
P9025-M46	46
P9025-M47	47
P9025-M48	48
P9025-M50	50

Model No.	Size (Ømm)
P9025-M52	52
P9025-M55	55
P9025-M58	58
P9025-M60	60
P9025-M62	62
P9025-M65	65
P9025-M68	68
P9025-M70	70
P9025-M72	72
P9025-M75	75
P9025-M78	78
P9025-M80	80
P9025-M82	82
P9025-M85	85
P9025-M88	88
P9025-M90	90
P9025-M92	92
P9025-M95	95
P9025-M96	96
P9025-M98	98
P9025-M100	100



PLAIN PLUG GAGE SET

FEATURES:

- Accuracy according DIN 7150-2
- Tolerance H7
- Each 1 pc. 3/4/5/6/8/10/12

Model No.	Set size mm
P9025S	Set with 7 gauges in wooden box (Ø3,Ø4,Ø5,Ø6, Ø8,Ø10,Ø12mm)

PLAIN RING GAGE

FEATURES:

- According to DIN 2250-C
- Made of hardened tool steel
- Hardness HRC60-63
- Special sizes are available upon request



unit:mm



Tolerance class of the hole according to DIN 2250-C is JS4 (DIN EN ISO 286):

- ±1,5µm (≤φ3mm)
- ±2,0µm (≤φ10mm)
- ±2,5µm (≤φ18mm)
- ±3,0µm (≤φ30mm)
- ±3,5µm (≤φ50mm)
- ±4,0µm (≤φ80mm)
- ±5,0µm (≤φ120mm)
- ±6,0µm (≤φ180mm)
- ±7,0µm (≤φ250mm)
- ±8,0µm (≤φ315mm)
- ±9,0µm (≤φ400mm)

Model No.	Size (Ømm)
P9026-M3	3
P9026-M3.5	3.5
P9026-M4	4
P9026-M4.5	4.5
P9026-M5	5
P9026-M6	6
P9026-M7	7
P9026-M8	8
P9026-M9	9
P9026-M10	10
P9026-M11	11
P9026-M12	12
P9026-M13	13
P9026-M14	14
P9026-M15	15
P9026-M16	16
P9026-M17	17
P9026-M18	18
P9026-M19	19
P9026-M20	20
P9026-M21	21
P9026-M22	22
P9026-M23	23
P9026-M24	24
P9026-M25	25
P9026-M26	26
P9026-M27	27
P9026-M28	28
P9026-M29	29
P9026-M30	30
P9026-M31	31
P9026-M32	32
P9026-M33	33
P9026-M34	34
P9026-M35	35
P9026-M36	36
P9026-M37	37

Model No.	Size (Ømm)
P9026-M38	38
P9026-M39	39
P9026-M40	40
P9026-M41	41
P9026-M42	42
P9026-M43	43
P9026-M44	44
P9026-M45	45
P9026-M46	46
P9026-M47	47
P9026-M48	48
P9026-M49	49
P9026-M50	50
P9026-M52	52
P9026-M54	54
P9026-M55	55
P9026-M56	56
P9026-M58	58
P9026-M60	60
P9026-M62	62
P9026-M64	64
P9026-M65	65
P9026-M66	66
P9026-M68	68
P9026-M70	70
P9026-M72	72
P9026-M74	74
P9026-M75	75
P9026-M76	76
P9026-M78	78
P9026-M80	80
P9026-M82	82
P9026-M84	84
P9026-M85	85
P9026-M86	86
P9026-M87	87
P9026-M88	88

Model No.	Size (Ømm)
P9026-M90	90
P9026-M92	92
P9026-M95	95
P9026-M98	98
P9026-M100	100
P9026-M105	105
P9026-M110	110
P9026-M115	115
P9026-M120	120
P9026-M125	125
P9026-M130	130
P9026-M135	135
P9026-M140	140
P9026-M145	145
P9026-M150	150
P9026-M155	155
P9026-M160	160
P9026-M165	165
P9026-M170	170
P9026-M175	175
P9026-M180	180
P9026-M185	185
P9026-M190	190
P9026-M195	195
P9026-M200	200
P9026-M225	225
P9026-M250	250
P9026-M275	275
P9026-M300	300
P9026-M325	325
P9026-M350	350
P9026-M400	400

METRIC THREAD PLUG GAGE

FEATURES:

- Tolerance: 6H (optional grade 5H, 6G, 7H)
- According to ISO 1502 (DIN13)
- Made of hardened tool steel
- GO and NO-GO side
- Red-marked NO-GO side
- Hardness HRC60-62
- Special sizes are available upon request



unit:mm

Model No.	Size mm	Model No.	Size mm
P9023-M2-1	M2x0.4	P9023-M11-1	M11x1.5
P9023-M2-2	M2x0.25	P9023-M11-2	M11x1.25
P9023-M2.5-1	M2.5x0.45	P9023-M11-3	M11x1
P9023-M2.5-2	M2.5x0.35	P9023-M11-4	M11x0.75
P9023-M3-1	M3x0.5	P9023-M11-5	M11x0.5
P9023-M3-2	M3x0.35	P9023-M12-1	M12x1.75
P9023-M3.5-1	M3.5x0.6	P9023-M12-2	M12x1.5
P9023-M3.5-2	M3.5x0.35	P9023-M12-3	M12x1.25
P9023-M4-1	M4x0.7	P9023-M12-4	M12x1
P9023-M4-2	M4x0.5	P9023-M12-5	M12x0.75
P9023-M5-1	M5x0.8	P9023-M12-6	M12x0.5
P9023-M5-2	M5x0.5	P9023-M14-1	M14x2
P9023-M6-1	M6x1	P9023-M14-2	M14x1.5
P9023-M6-2	M6x0.75	P9023-M14-3	M14x1.25
P9023-M6-3	M6x0.5	P9023-M14-4	M14x1
P9023-M7-1	M7x1	P9023-M14-5	M14x0.75
P9023-M7-2	M7x0.75	P9023-M14-6	M14x0.5
P9023-M7-3	M7x0.5	P9023-M16-1	M16x2
P9023-M8-1	M8x1.25	P9023-M16-2	M16x1.5
P9023-M8-2	M8x1	P9023-M16-3	M16x1.25
P9023-M8-3	M8x0.75	P9023-M16-4	M16x1
P9023-M8-4	M8x0.5	P9023-M16-5	M16x0.75
P9023-M9-1	M9x1.25	P9023-M16-6	M16x0.5
P9023-M9-2	M9x1	P9023-M18-1	M18x2.5
P9023-M9-3	M9x0.75	P9023-M18-2	M18x2
P9023-M9-4	M9x0.5	P9023-M18-3	M18x1.5
P9023-M10-1	M10x1.5	P9023-M18-4	M18x1
P9023-M10-2	M10x1.25	P9023-M18-5	M18x0.75
P9023-M10-3	M10x1	P9023-M18-6	M18x0.5
P9023-M10-4	M10x0.75	P9023-M20-1	M20x2.5
P9023-M10-5	M10x0.5	P9023-M20-2	M20x2

Model No.	Size mm	Model No.	Size mm
P9023-M20-3	M20x1.5	P9023-M39-1	M39x4
P9023-M20-4	M20x1	P9023-M39-2	M39x3
P9023-M20-5	M20x0.75	P9023-M39-3	M39x2
P9023-M20-6	M20x0.5	P9023-M39-4	M39x1.5
P9023-M22-1	M22x2.5	P9023-M39-5	M39x1
P9023-M22-2	M22x2	P9023-M39-6	M39x0.75
P9023-M22-3	M22x1.5	P9023-M39-7	M39x0.5
P9023-M22-4	M22x1	P9023-M42-1	M42x4.5
P9023-M22-5	M22x0.75	P9023-M42-2	M42x4
P9023-M22-6	M22x0.5	P9023-M42-3	M42x3
P9023-M24-1	M24x3	P9023-M42-4	M42x2
P9023-M24-2	M24x2	P9023-M42-5	M42x1.5
P9023-M24-3	M24x1.5	P9023-M42-6	M42x1
P9023-M24-4	M24x1	P9023-M42-7	M42x0.75
P9023-M24-5	M24x0.75	P9023-M42-8	M42x0.5
P9023-M24-6	M24x0.5	P9023-M45-1	M45x4.5
P9023-M27-1	M27x3	P9023-M45-2	M45x4
P9023-M27-2	M27x2	P9023-M45-3	M45x3
P9023-M27-3	M27x1.5	P9023-M45-4	M45x2
P9023-M27-4	M27x1	P9023-M45-5	M45x1.5
P9023-M27-5	M27x0.75	P9023-M45-6	M45x1
P9023-M27-6	M27x0.5	P9023-M45-7	M45x0.75
P9023-M30-1	M30x3.5	P9023-M45-8	M45x0.5
P9023-M30-2	M30x3	P9023-M48-1	M48x5
P9023-M30-3	M30x2	P9023-M48-2	M48x4
P9023-M30-4	M30x1.5	P9023-M48-3	M48x3
P9023-M30-5	M30x1	P9023-M48-4	M48x2
P9023-M30-6	M30x0.75	P9023-M48-5	M48x1.5
P9023-M30-7	M30x0.5	P9023-M48-6	M48x1
P9023-M33-1	M33x3.5	P9023-M48-7	M48x0.75
P9023-M33-2	M33x3	P9023-M48-8	M48x0.5
P9023-M33-3	M33x2	P9023-M52-1	M52x5
P9023-M33-4	M33x1.5	P9023-M52-2	M52x4
P9023-M33-5	M33x1	P9023-M52-3	M52x3
P9023-M33-6	M33x0.75	P9023-M52-4	M52x2
P9023-M33-7	M33x0.5	P9023-M52-5	M52x1.5
P9023-M36-1	M36x4	P9023-M52-6	M52x1
P9023-M36-2	M36x3	P9023-M52-7	M52x0.75
P9023-M36-3	M36x2	P9023-M52-8	M52x0.5
P9023-M36-4	M36x1.5	P9023-M56-1	M56x5.5
P9023-M36-5	M36x1	P9023-M56-2	M56x4
P9023-M36-6	M36x0.75	P9023-M56-3	M56x3
P9023-M36-7	M36x0.5	P9023-M56-4	M56x2

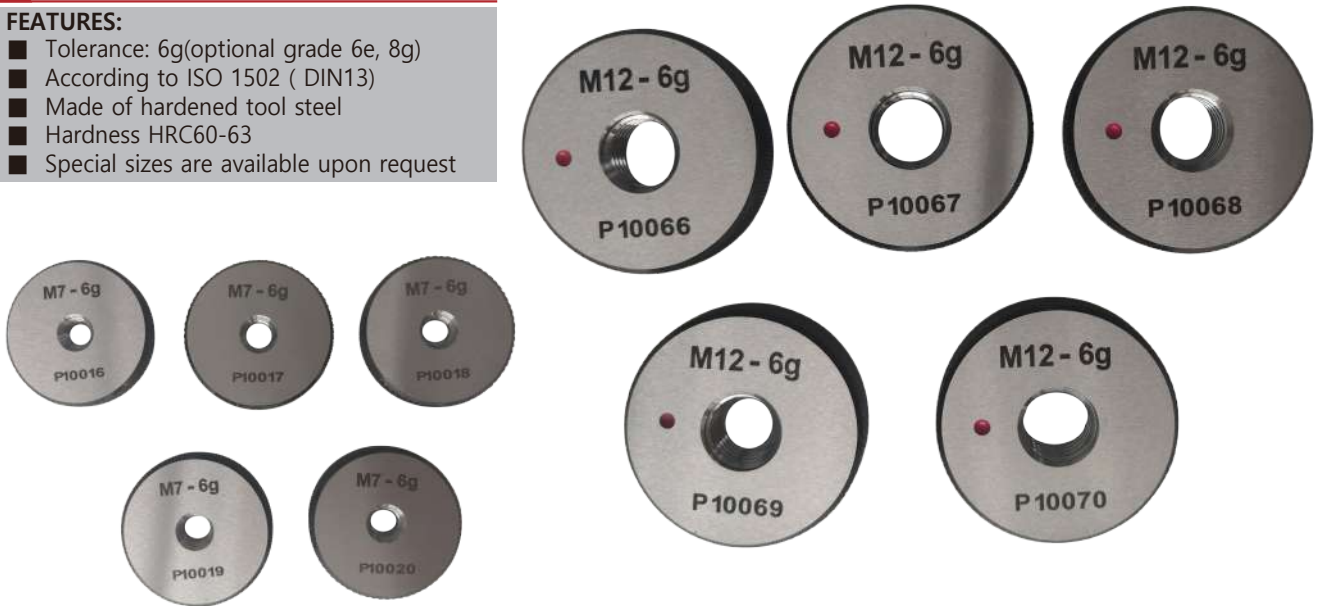
Model No.	Size mm	Model No.	Size mm
P9023-M56-5	M56x1.5	P9023-M80-3	M80x3
P9023-M56-6	M56x1	P9023-M80-4	M80x2
P9023-M56-7	M56x0.75	P9023-M80-5	M80x1.5
P9023-M56-8	M56x0.5	P9023-M80-6	M80x1
P9023-M60-1	M60x5.5	P9023-M80-7	M80x0.75
P9023-M60-2	M60x4	P9023-M85-1	M85x6
P9023-M60-3	M60x3	P9023-M85-2	M85x4
P9023-M60-4	M60x2	P9023-M85-3	M85x3
P9023-M60-5	M60x1.5	P9023-M85-4	M85x2
P9023-M60-6	M60x1	P9023-M85-5	M85x1.5
P9023-M60-7	M60x0.75	P9023-M85-6	M85x1
P9023-M60-8	M60x0.5	P9023-M85-7	M85x0.75
P9023-M64-1	M64x6	P9023-M90-1	M90x6
P9023-M64-2	M64x4	P9023-M90-2	M90x4
P9023-M64-3	M64x3	P9023-M90-3	M90x3
P9023-M64-4	M64x2	P9023-M90-4	M90x2
P9023-M64-5	M64x1.5	P9023-M90-5	M90x1.5
P9023-M64-6	M64x1	P9023-M90-6	M90x1
P9023-M64-7	M64x0.75	P9023-M90-7	M90x0.75
P9023-M68-1	M68x6	P9023-M95-1	M95x6
P9023-M68-2	M68x4	P9023-M95-2	M95x4
P9023-M68-3	M68x3	P9023-M95-3	M95x3
P9023-M68-4	M68x2	P9023-M95-4	M95x2
P9023-M68-5	M68x1.5	P9023-M95-5	M95x1.5
P9023-M68-6	M68x1	P9023-M95-6	M95x1
P9023-M68-7	M68x0.75	P9023-M95-7	M95x0.75
P9023-M72-1	M72x6	P9023-M100-1	M100x6
P9023-M72-2	M72x4	P9023-M100-2	M100x4
P9023-M72-3	M72x3	P9023-M100-3	M100x3
P9023-M72-4	M72x2	P9023-M100-4	M100x2
P9023-M72-5	M72x1.5	P9023-M100-5	M100x1.5
P9023-M72-6	M72x1	P9023-M100-6	M100x1
P9023-M72-7	M72x0.75	P9023-M100-7	M100x0.75
P9023-M76-1	M76x6	P9023-M105-1	M105x6
P9023-M76-2	M76x4	P9023-M105-2	M105x4
P9023-M76-3	M76x3	P9023-M105-3	M105x3
P9023-M76-4	M76x2	P9023-M105-4	M105x2
P9023-M76-5	M76x1.5	P9023-M105-6	M105x1.5
P9023-M76-5	M76x1	P9023-M105-7	M105x1
P9023-M76-6	M76x0.75	P9023-M105-8	M105x0.75
P9023-M80-1	M80x6		
P9023-M80-2	M80x4		

Bigger sizes optional.

METRIC THREAD PLUG GAGE

FEATURES:

- Tolerance: 6g(optional grade 6e, 8g)
- According to ISO 1502 (DIN13)
- Made of hardened tool steel
- Hardness HRC60-63
- Special sizes are available upon request



unit:mm

Model No. Go	Model No. NoGo	Size mm	Model No. Go	Model No. NoGo	Size mm
P9024-G2-1	P9024-N2-1	M2x0.4	P9024-G10-1	P9024-N10-1	M10x1.5
P9024-G2-2	P9024-N2-2	M2x0.25	P9024-G10-2	P9024-N10-2	M10x1.25
P9024-G2.5-1	P9024-N2.5-1	M2.5x0.45	P9024-G10-3	P9024-N10-3	M10x1
P9024-G2.5-2	P9024-N2.5-2	M2.5x0.35	P9024-G10-4	P9024-N10-4	M10x0.75
P9024-G3-1	P9024-N3-1	M3x0.5	P9024-G10-5	P9024-N10-5	M10x0.5
P9024-G3-2	P9024-N3-2	M3x0.35	P9024-G11-1	P9024-N11-1	M11x1.5
P9024-G3.5-1	P9024-N3.5-1	M3.5x0.6	P9024-G11-2	P9024-N11-2	M11x1.25
P9024-G3.5-2	P9024-N3.5-2	M3.5x0.35	P9024-G11-3	P9024-N11-3	M11x1
P9024-G4-1	P9024-N4-1	M4x0.7	P9024-G11-4	P9024-N11-4	M11x0.75
P9024-G4-2	P9024-N4-2	M4x0.5	P9024-G11-5	P9024-N11-5	M11x0.5
P9024-G5-1	P9024-N5-1	M5x0.8	P9024-G12-1	P9024-N12-1	M12x1.75
P9024-G5-2	P9024-N5-2	M5x0.5	P9024-G12-2	P9024-N12-2	M12x1.5
P9024-G6-1	P9024-N6-1	M6x1	P9024-G12-3	P9024-N12-3	M12x1.25
P9024-G6-2	P9024-N6-2	M6x0.75	P9024-G12-4	P9024-N12-4	M12x1
P9024-G6-3	P9024-N6-3	M6x0.5	P9024-G12-5	P9024-N12-5	M12x0.75
P9024-G7-1	P9024-N7-1	M7x1	P9024-G12-6	P9024-N12-6	M12x0.5
P9024-G7-2	P9024-N7-2	M7x0.75	P9024-G14-1	P9024-N14-1	M14x2
P9024-G7-3	P9024-N7-3	M7x0.5	P9024-G14-2	P9024-N14-2	M14x1.5
P9024-G8-1	P9024-N8-1	M8x1.25	P9024-G14-3	P9024-N14-3	M14x1.25
P9024-G8-2	P9024-N8-2	M8x1	P9024-G14-4	P9024-N14-4	M14x1
P9024-G8-3	P9024-N8-3	M8x0.75	P9024-G14-5	P9024-N14-5	M14x0.75
P9024-G8-4	P9024-N8-4	M8x0.5	P9024-G14-6	P9024-N14-6	M14x0.5
P9024-G9-1	P9024-N9-1	M9x1.25	P9024-G16-1	P9024-N16-1	M16x2
P9024-G9-2	P9024-N9-2	M9x1	P9024-G16-2	P9024-N16-2	M16x1.5
P9024-G9-3	P9024-N9-3	M9x0.75	P9024-G16-3	P9024-N16-3	M16x1.25
P9024-G9-4	P9024-N9-4	M9x0.5	P9024-G16-4	P9024-N16-4	M16x1

P9024-G16-5	P9024-N16-5	M16x0.75	P9024-G33-6	P9024-N33-6	M33x0.75
P9024-G16-6	P9024-N16-6	M16x0.5	P9024-G33-7	P9024-N33-7	M33x0.5
P9024-G18-1	P9024-N18-1	M18x2.5	P9024-G36-1	P9024-N36-1	M36x4
P9024-G18-2	P9024-N18-2	M18x2	P9024-G36-2	P9024-N36-2	M36x3
P9024-G18-3	P9024-N18-3	M18x1.5	P9024-G36-3	P9024-N36-3	M36x2
P9024-G18-4	P9024-N18-4	M18x1	P9024-G36-4	P9024-N36-4	M36x1.5
P9024-G18-5	P9024-N18-5	M18x0.75	P9024-G36-5	P9024-N36-5	M36x1
P9024-G18-6	P9024-N18-6	M18x0.5	P9024-G36-6	P9024-N36-6	M36x0.75
P9024-G20-1	P9024-N20-1	M20x2.5	P9024-G36-7	P9024-N36-7	M36x0.5
P9024-G20-2	P9024-N20-2	M20x2	P9024-G39-1	P9024-N39-1	M39x4
P9024-G20-3	P9024-N20-3	M20x1.5	P9024-G39-2	P9024-N39-2	M39x3
P9024-G20-4	P9024-N20-4	M20x1	P9024-G39-3	P9024-N39-3	M39x2
P9024-G20-5	P9024-N20-5	M20x0.75	P9024-G39-4	P9024-N39-4	M39x1.5
P9024-G20-6	P9024-N20-6	M20x0.5	P9024-G39-5	P9024-N39-5	M39x1
P9024-G22-1	P9024-N22-1	M22x2.5	P9024-G39-6	P9024-N39-6	M39x0.75
P9024-G22-2	P9024-N22-2	M22x2	P9024-G39-7	P9024-N39-7	M39x0.5
P9024-G22-3	P9024-N22-3	M22x1.5	P9024-G42-1	P9024-N42-1	M42x4.5
P9024-G22-4	P9024-N22-4	M22x1	P9024-G42-2	P9024-N42-2	M42x4
P9024-G22-5	P9024-N22-5	M22x0.75	P9024-G42-3	P9024-N42-3	M42x3
P9024-G22-6	P9024-N22-6	M22x0.5	P9024-G42-4	P9024-N42-4	M42x2
P9024-G24-1	P9024-N24-1	M24x3	P9024-G42-5	P9024-N42-5	M42x1.5
P9024-G24-2	P9024-N24-2	M24x2	P9024-G42-6	P9024-N42-6	M42x1
P9024-G24-3	P9024-N24-3	M24x1.5	P9024-G42-7	P9024-N42-7	M42x0.75
P9024-G24-4	P9024-N24-4	M24x1	P9024-G42-8	P9024-N42-8	M42x0.5
P9024-G24-5	P9024-N24-5	M24x0.75	P9024-G45-1	P9024-N45-1	M45x4.5
P9024-G24-6	P9024-N24-6	M24x0.5	P9024-G45-2	P9024-N45-2	M45x4
P9024-G27-1	P9024-N27-1	M27x3	P9024-G45-3	P9024-N45-3	M45x3
P9024-G27-2	P9024-N27-2	M27x2	P9024-G45-4	P9024-N45-4	M45x2
P9024-G27-3	P9024-N27-3	M27x1.5	P9024-G45-5	P9024-N45-5	M45x1.5
P9024-G27-4	P9024-N27-4	M27x1	P9024-G45-6	P9024-N45-6	M45x1
P9024-G27-5	P9024-N27-5	M27x0.75	P9024-G45-7	P9024-N45-7	M45x0.75
P9024-G27-6	P9024-N27-6	M27x0.5	P9024-G45-8	P9024-N45-8	M45x0.5
P9024-G30-1	P9024-N30-1	M30x3.5	P9024-G48-1	P9024-N48-1	M48x5
P9024-G30-2	P9024-N30-2	M30x3	P9024-G48-2	P9024-N48-2	M48x4
P9024-G30-3	P9024-N30-3	M30x2	P9024-G48-3	P9024-N48-3	M48x3
P9024-G30-4	P9024-N30-4	M30x1.5	P9024-G48-4	P9024-N48-4	M48x2
P9024-G30-5	P9024-N30-5	M30x1	P9024-G48-5	P9024-N48-5	M48x1.5
P9024-G30-6	P9024-N30-6	M30x0.75	P9024-G48-6	P9024-N48-6	M48x1
P9024-G30-7	P9024-N30-7	M30x0.5	P9024-G48-7	P9024-N48-7	M48x0.75
P9024-G33-1	P9024-N33-1	M33x3.5	P9024-G48-8	P9024-N48-8	M48x0.5
P9024-G33-2	P9024-N33-2	M33x3	P9024-G52-1	P9024-N52-1	M52x5
P9024-G33-3	P9024-N33-3	M33x2	P9024-G52-2	P9024-N52-2	M52x4
P9024-G33-4	P9024-N33-4	M33x1.5	P9024-G52-3	P9024-N52-3	M52x3
P9024-G33-5	P9024-N33-5	M33x1	P9024-G52-4	P9024-N52-4	M52x2

Model No. Go	Model No. NoGo	Size mm	Model No. Go	Model No. NoGo	Size mm
P9024-G52-5	P9024-N52-5	M52x1.5	P9024-G76-5	P9024-N76-5	M76x1.5
P9024-G52-6	P9024-N52-6	M52x1	P9024-G76-5	P9024-N76-5	M76x1
P9024-G52-7	P9024-N52-7	M52x0.75	P9024-G76-6	P9024-N76-6	M76x0.75
P9024-G52-8	P9024-N52-8	M52x0.5	P9024-G80-1	P9024-N80-1	M80x6
P9024-G56-1	P9024-N56-1	M56x5.5	P9024-G80-2	P9024-N80-2	M80x4
P9024-G56-2	P9024-N56-2	M56x4	P9024-G80-3	P9024-N80-3	M80x3
P9024-G56-3	P9024-N56-3	M56x3	P9024-G80-4	P9024-N80-4	M80x2
P9024-G56-4	P9024-N56-4	M56x2	P9024-G80-5	P9024-N80-5	M80x1.5
P9024-G56-5	P9024-N56-5	M56x1.5	P9024-G80-6	P9024-N80-6	M80x1
P9024-G56-6	P9024-N56-6	M56x1	P9024-G80-7	P9024-N80-7	M80x0.75
P9024-G56-7	P9024-N56-7	M56x0.75	P9024-G85-1	P9024-N85-1	M85x6
P9024-G56-8	P9024-N56-8	M56x0.5	P9024-G85-2	P9024-N85-2	M85x4
P9024-G60-1	P9024-N60-1	M60x5.5	P9024-G85-3	P9024-N85-3	M85x3
P9024-G60-2	P9024-N60-2	M60x4	P9024-G85-4	P9024-N85-4	M85x2
P9024-G60-3	P9024-N60-3	M60x3	P9024-G85-5	P9024-N85-5	M85x1.5
P9024-G60-4	P9024-N60-4	M60x2	P9024-G85-6	P9024-N85-6	M85x1
P9024-G60-5	P9024-N60-5	M60x1.5	P9024-G85-7	P9024-N85-7	M85x0.75
P9024-G60-6	P9024-N60-6	M60x1	P9024-G90-1	P9024-N90-1	M90x6
P9024-G60-7	P9024-N60-7	M60x0.75	P9024-G90-2	P9024-N90-2	M90x4
P9024-G60-8	P9024-N60-8	M60x0.5	P9024-G90-3	P9024-N90-3	M90x3
P9024-G64-1	P9024-N64-1	M64x6	P9024-G90-4	P9024-N90-4	M90x2
P9024-G64-2	P9024-N64-2	M64x4	P9024-G90-5	P9024-N90-5	M90x1.5
P9024-G64-3	P9024-N64-3	M64x3	P9024-G90-6	P9024-N90-6	M90x1
P9024-G64-4	P9024-N64-4	M64x2	P9024-G90-7	P9024-N90-7	M90x0.75
P9024-G64-5	P9024-N64-5	M64x1.5	P9024-G95-1	P9024-N95-1	M95x6
P9024-G64-6	P9024-N64-6	M64x1	P9024-G95-2	P9024-N95-2	M95x4
P9024-G64-7	P9024-N64-7	M64x0.75	P9024-G95-3	P9024-N95-3	M95x3
P9024-G68-1	P9024-N68-1	M68x6	P9024-G95-4	P9024-N95-4	M95x2
P9024-G68-2	P9024-N68-2	M68x4	P9024-G95-5	P9024-N95-5	M95x1.5
P9024-G68-3	P9024-N68-3	M68x3	P9024-G95-6	P9024-N95-6	M95x1
P9024-G68-4	P9024-N68-4	M68x2	P9024-G95-7	P9024-N95-7	M95x0.75
P9024-G68-5	P9024-N68-5	M68x1.5	P9024-G100-1	P9024-N100-1	M100x6
P9024-G68-6	P9024-N68-6	M68x1	P9024-G100-2	P9024-N100-2	M100x4
P9024-G68-7	P9024-N68-7	M68x0.75	P9024-G100-3	P9024-N100-3	M100x3
P9024-G72-1	P9024-N72-1	M72x6	P9024-G100-4	P9024-N100-4	M100x2
P9024-G72-2	P9024-N72-2	M72x4	P9024-G100-5	P9024-N100-5	M100x1.5
P9024-G72-3	P9024-N72-3	M72x3	P9024-G100-6	P9024-N100-6	M100x1
P9024-G72-4	P9024-N72-4	M72x2	P9024-G100-7	P9024-N100-7	M100x0.75
P9024-G72-5	P9024-N72-5	M72x1.5	P9024-G105-1	P9024-N105-1	M105x6
P9024-G72-6	P9024-N72-6	M72x1	P9024-G105-2	P9024-N105-2	M105x4
P9024-G72-7	P9024-N72-7	M72x0.75	P9024-G105-3	P9024-N105-3	M105x3
P9024-G76-1	P9024-N76-1	M76x6	P9024-G105-4	P9024-N105-4	M105x2
P9024-G76-2	P9024-N76-2	M76x4	P9024-G105-6	P9024-N105-6	M105x1.5
P9024-G76-3	P9024-N76-3	M76x3	P9024-G105-7	P9024-N105-7	M105x1
P9024-G76-4	P9024-N76-4	M76x2	P9024-G105-8	P9024-N105-8	M105x0.75

Bigger sizes optional

AMERICAN THREAD PLUG GAGE

FEATURES:

- Standard ANSI/ASME B1.2 Accuracy grade 2B
- Go and No Go gauge together
- Special sizes are available upon request



unit:mm

Model No.	Thread Size	Model No.	Thread Size
P9027-080UNF	0 - 80UNF	P9027-1228UNEF	1/2 - 28UNEF
P9027-164UNC	1 - 64UNC	P9027-91612UNC	9/16 - 12UNC
P9027-172UNF	1 - 72UNF	P9027-91618UNF	9/16 - 18UNF
P9027-256UNC	2 - 56UNC	P9027-91624UNEF	9/16 - 24UNEF
P9027-264UNF	2 - 64UNF	P9027-5811UNC	5/8 - 11UNC
P9027-348UNC	3 - 48UNC	P9027-5818UNF	5/8 - 18UNF
P9027-356UNF	3 - 56UNF	P9027-5824UNEF	5/8 - 24UNEF
P9027-440UNC	4 - 40UNC	P9027-111624UNEF	11/16-24UNEF
P9027-448UNF	4 - 48UNF	P9027-3410UNC	3/4 - 10UNC
P9027-540UNC	5 - 40UNC	P9027-3416UNF	3/4 - 16UNF
P9027-544UNF	5 - 44UNF	P9027-3420UNEF	3/4 - 20UNEF
P9027-632UNC	6 - 32UNC	P9027-789UNC	7/8 - 9UNC
P9027-640UNF	6 - 40UNF	P9027-7814UNF	7/8 - 14UNF
P9027-832UNC	8 - 32UNC	P9027-7820UNEF	7/8 - 20UNEF
P9027-836UNF	8 - 36UNF	P9027-151620UNEF	15/16-20UNEF
P9027-1024UNC	10 - 24UNC	P9027-18UNC	1 - 8UNC
P9027-1032UNF	10 - 32UNF	P9027-112UNF	1 - 12UNF
P9027-1224UNC	12 - 24UNC	P9027-120UNEF	1 - 20UNEF
P9027-1228UNF	12 - 28UNF	P9027-111618UNEF	1-1/16-18UNEF
P9027-1232UNEF	12-32UNEF	P9027-1187UNC	1-1/8 - 7UNC
P9027-1/420UNC	1/4 -20UNC	P9027-11812UNF	1-1/8 -12UNF
P9027-1/428UNF	1/4 - 28UNF	P9027-11818UNEF	1-1/8 -18UNEF
P9027-1/432UNEF	1/4-32UNEF	P9027-131618UNEF	1-3/16-18UNEF
P9027-5/1618UNC	5/16-18UNC	P9027-1147UNC	1-1/4 - 7UNC
P9027-5/1624UNF	5/16-24UNF	P9027-11412UNF	1-1/4 - 12UNF
P9027-5/1632UNEF	5/16-32UNEF	P9027-11418UNEF	1-1/4 -18UNEF
P9027-3/816UNC	3/8 - 16UNC	P9027-151618UNEF	1-5/16-18UNEF
P9027-3/824UNF	3/8 - 24UNF	P9027-1386UNC	1-3/8 - 6UNC
P9027-3/432UNEF	3/8 - 32UNEF	P9027-13812UNF	1-3/8 - 12UNF
P9027-7/1614UNC	7/16 - 14UNC	P9027-13818UNEF	1-3/8 - 18UNEF
P9027-7/1620UNF	7/16 - 20UNF	P9027-171618UNEF	1-7/16-18UNEF
P9027-7/1628UNEF	7/16-28UNEF	P9027-1126UNC	1-1/2 -6UNC
P9027-1/213UNC	1/2 - 13UNC	P9027-11212UNF	1-1/2 -12UNF
P9027-1/220UNF	1/2 - 20UNF	P9027-11218UNEF	1-1/2 -18UNEF

AMERICAN THREAD RING GAGE

FEATURES:

- Standard ANSI/ASME B1.2
- Accuracy grade 2A
- Special sizes are available upon request



unit:mm

Model No. Go	Model No. No Go	Thread Size
P9028-G080	P9028-N080	0 - 80UNF
P9028-G164	P9028-N164	1 - 64UNC
P9028-G172	P9028-N172	1 - 72UNF
P9028-G256	P9028-N256	2 - 56UNC
P9028-G264	P9028-N264	2 - 64UNF
P9028-G348	P9028-N348	3 - 48UNC
P9028-G356	P9028-N356	3 - 56UNF
P9028-G440	P9028-N440	4 - 40UNC
P9028-G448	P9028-N448	4 - 48UNF
P9028-G540	P9028-N540	5 - 40UNC
P9028-G544	P9028-N544	5 - 44UNF
P9028-G632	P9028-N632	6 - 32UNC
P9028-G640	P9028-N640	6 - 40UNF
P9028-G832	P9028-N832	8 - 32UNC
P9028-G836	P9028-N836	8 - 36UNF
P9028-G1024	P9028-N1024	10 - 24UNC
P9028-G1032	P9028-N1032	10 - 32UNF
P9028-G1224	P9028-N1224	12 - 24UNC
P9028-G1228	P9028-N1228	12 - 28UNF
P9028-G1232	P9028-N1232	12 - 32UNEF
P9028-G1/420	P9028-N1420	1/4 - 20UNC
P9028-G1/428	P9028-N1428	1/4 - 28UNF
P9028-G1/432	P9028-N1432	1/4 - 32UNEF
P9028-G5/1618	P9028-N51618	5/16 - 18UNC
P9028-G5/1624	P9028-N51624	5/16 - 24UNF
P9028-G5/1632	P9028-N51632	5/16 - 32UNEF
P9028-G3/816	P9028-N3816	3/8 - 16UNC
P9028-G3/824	P9028-N3824	3/8 - 24UNF
P9028-G3/832	P9028-N3832	3/8 - 32UNEF
P9028-G7/1614	P9028-N71614	7/16 - 14UNC
P9028-G7/1620	P9028-N71620	7/16 - 20UNF
P9028-G7/1628	P9028-N71628	7/16 - 28UNEF
P9028-G1/213	P9028-N1213	1/2 - 13UNC

Model No. Go	Model No. No Go	Thread Size
P9028-G1/220	P9028-N1220	1/2 - 20UNF
P9028-G1/228	P9028-N1228	1/2 - 28UNEF
P9028-G9/1612	P9028-N91612	9/16 - 12UNC
P9028-G9/1618	P9028-N91618	9/16 - 18UNF
P9028-G9/1624	P9028-N91624	9/16 - 24UNEF
P9028-G5/811	P9028-N5811	5/8 - 11UNC
P9028-G5/818	P9028-N5818	5/8 - 18UNF
P9028-G5/824	P9028-N5824	5/8 - 24UNEF
P9028-G11/1624	P9028-N111624	11/16 - 24UNEF
P9028-G3/410	P9028-N3410	3/4 - 10UNC
P9028-G3/416	P9028-N3416	3/4 - 16UNF
P9028-G3/420	P9028-N3420	3/4 - 20UNEF
P9028-G7/89	P9028-N789	7/8 - 9UNC
P9028-G7/814	P9028-N7814	7/8 - 14UNF
P9028-G7/820	P9028-N7820	7/8 - 20UNEF
P9028-G15/1620	P9028-N151620	15/16 - 20UNEF
P9028-G18	P9028-N18	1 - 8UNC
P9028-G112	P9028-N112	1 - 12UNF
P9028-G120	P9028-N120	1 - 20UNEF
P9028-G11/1618	P9028-N111618	1-1/16 - 18UNEF
P9028-G11/87	P9028-N1187	1-1/8 - 7UNC
P9028-G11/812	P9028-N11812	1-1/8 - 12UNF
P9028-G11/818	P9028-N11818	1-1/8 - 18UNEF
P9028-G13/1618	P9028-N131618	1-3/16 - 18UNEF
P9028-G11/47	P9028-N1147	1-1/4 - 7UNC
P9028-G11/412	P9028-N11712	1-1/4 - 12UNF
P9028-G11/418	P9028-N11718	1-1/4 - 18UNEF
P9028-G15/1618	P9028-N151618	1-5/16 - 18UNEF
P9028-G13/86	P9028-N1386	1-3/8 - 6UNC
P9028-G13/812	P9028-N13812	1-3/8 - 12UNF
P9028-G13/818	P9028-N13818	1-3/8 - 18UNEF
P9028-G17/1618	P9028-N171618	1-7/16 - 18UNEF
P9028-G11/26	P9028-N1126	1-1/2 - 6UNC
P9028-G11/212	P9028-N11212	1-1/2 - 12UNF
P9028-G11/218	P9028-N11218	1-1/2 - 18UNEF

THREAD PLUG GAGE in set

FEATURES:

- ISO-metric thread, right
- Gauge dimensions acc. DIN ISO 1502
- Tolerance 6H

unit:mm



Model No.	Set size mm
P9023S	M3/M4/M5/M6/M8/M10/M12

THREAD RING GAGE in set

FEATURES:

- ISO-metric thread
- Gage dimensions acc. DIN ISO 1502
- Tolerance 6g

Model No.	Set size mm
P9024GS	Go M3/M4/M5/M6/M8/M10/M12
P9024NS	NoGo M3/M4/M5/M6/M8/M10/M12



unit:mm

PLAIN RING GAGE SETS

FEATURES:

- According to DIN 2250-C
- Made of hardened tool steel

Model No.	Nominal size mm	Pieces per set
P9026S-1	1.0 · 1.5 · 2.0 · 2.5 · 3.0 · 4.0 · 5.0 · 6.0 · 7.0 · 8.0 · 9.0 · 10.0	12
P9026S-2	11.0 · 12.0 · 13.0 · 14.0 · 15.0 · 16.0 · 17.0 · 18.0 · 19.0 · 20.0 · 22.0 · 24.0	12
P9026S-3	25.0 · 26.0 · 27.0 · 28.0 · 30.0 · 32.0 · 34.0 · 35.0 · 36.0 · 37.0 · 38.0 · 40.0	7
P9026S-4	42.0 · 44.0 · 45.0 · 46.0 · 47.0 · 48.0 · 50.0	7
P9026S-5	52.0 · 54.0 · 55.0 · 56.0 · 58.0 · 60.0 · 65.0	7
P9026S-6	68.0 · 70.0 · 75.0 · 80.0	4

HI-RESOLUTION THREAD GAUGE

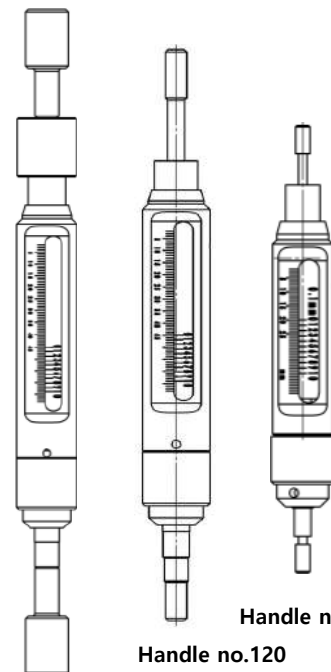
■ The Hi-resolution Thread Gauge:

To control the thread tolerance, the Hi-resolution Thread Gauge is used in the same way as any normal double-ended thread gauge. As the GO side is inserted into the thread hole, the telescoping measuring sleeve retreats into the aluminum body, providing the user with an accurate depth reading of 0.5mm or .025" resolution per division. The NOT GO side is used in a conventional manner.

■ The Traditional Thread Gauge:

A normal double-ended thread gauge.

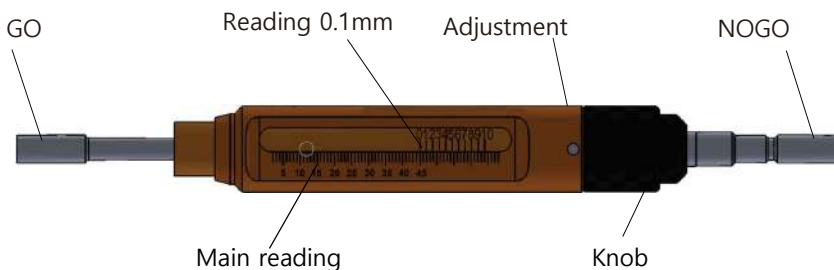
■ Thread Inserts: Exchangeable on all gauges



Handle no.180

Handle no.120

Handle no.100



HI-RESOLUTION THREAD GAUGE

- For sizes not shown request a quotation.
- Handle no.100,measuring depth optional to 80mm;handle no.120 and 180,measuring depth optional to 120mm.



Model No.	Metric Size	Handle No.	Measur. Depth
P9100-001	M2 x 0,25	100	4-25mm
P9100-002	M2 x (0,4)	100	4-25mm
P9100-003	M2.2 x 0,25	100	4-25mm
P9100-004	M2.2 x 0,45	100	4-25mm
P9100-005	M2.5 x (0,45)	100	4-25mm
P9100-006	M3 x 0,35	100	4-25mm
P9100-007	M3 x (0,5)	100	4-25mm
P9100-008	M3.5 x 0,35	100	4-25mm
P9100-009	M3.5 x (0,6)	100	4-25mm
P9100-010	M4 x 0,50	100	4-25mm
P9100-011	M4 x (0,7)	100	4-25mm
P9100-012	M4.5 x 0,5	100	4-25mm
P9100-013	M5 x 0,35	100	4-25mm
P9100-014	M5 x 0,5	100	4-25mm
P9100-015	M5 x (0,8)	100	4-25mm
P9100-016	M6 x 0,75	100	4-25mm
P9100-017	M6 x (1,0)	100	4-25mm
P9100-018	M7 x 0,75	120	5-45mm
P9100-019	M7 x (1,0)	120	5-45mm
P9100-020	M8 x 0,75	120	5-45mm
P9100-021	M8 x 1,0	120	5-45mm
P9100-022	M8 x (1,25)	120	5-45mm
P9100-023	M9 x 0,75	120	5-45mm
P9100-024	M9 x 1,0	120	5-45mm
P9100-025	M9 x (1,25)	120	5-45mm
P9100-026	M10 x 0,75	120	5-45mm
P9100-027	M10 x 1,0	120	5-45mm
P9100-028	M10 x 1,25	120	5-45mm
P9100-029	M10 x (1,5)	120	5-45mm
P9100-030	M11 x 1,0	120	5-45mm
P9100-031	M11 x 1,5	120	5-45mm
P9100-032	M12 x 1,0	120	5-45mm
P9100-033	M12 x 1,25	120	5-45mm
P9100-034	M12 x 1,5	120	5-45mm
P9100-035	M12 x (1,75)	120	5-45mm
P9100-036	M14 x 1,0	180	5-45mm
P9100-037	M14 x 1,25	180	5-45mm
P9100-038	M14 x 1,5	180	5-45mm
P9100-039	M14 x (2,0)	180	5-45mm
P9100-040	M15 x 1,0	180	5-45mm
P9100-041	M15 x 1,5	180	5-45mm
P9100-042	M16 x 1,0	180	5-45mm
P9100-043	M16 x 1,5	180	5-45mm
P9100-044	M16 x (2,0)	180	5-45mm
P9100-045	M18 x 1,0	180	5-45mm
P9100-046	M18 x 1,5	180	5-45mm
P9100-047	M18 x 2,0	180	5-45mm
P9100-048	M18 x (2,5)	180	5-45mm
P9100-049	M20 x 1,0	180	5-45mm
P9100-050	M20 x 1,5	180	5-45mm
P9100-051	M20 x 2,0	180	5-45mm
P9100-052	M20 x (2,5)	180	5-45mm
P9100-053	M22 x 1,0	180	5-45mm
P9100-054	M22 x 1,5	180	5-45mm
P9100-055	M22 x 2,0	180	5-45mm
P9100-056	M22 x (2,5)	180	5-45mm

unit:mm

UNC	Handle No.	Measur. Depth
2-56 Unc	100	4-25mm
3-48 Unc	100	4-25mm
4-40 Unc	100	4-25mm
5-40 Unc	100	4-25mm
6-32 Unc	100	4-25mm
8-32 Unc	100	4-25mm
10-24 Unc	100	4-25mm
12-24 Unc	100	4-25mm
1/4-20 Unc	100	4-25mm
5/16-18Unc	120	5-45mm
3/8-16 Unc	120	5-45mm
7/16-14Unc	120	5-45mm
1/2-13 Unc	180	5-45mm
9/16-12Unc	180	5-45mm
5/8-11 Unc	180	5-45mm
3/4-10 Unc	180	5-45mm
7/8-9 Unc	180	5-45mm

unit:mm

UNF	Handle No.	Measur. Depth
2-64 Unf	100	4-25mm
3-56 Unf	100	4-25mm
4-48 Unf	100	4-25mm
5-44 Unf	100	4-25mm
6-40 Unf	100	4-25mm
8-36 Unf	100	4-25mm
10-32 Unf	100	4-25mm
12-28 Unf	100	4-25mm
1/4-28 Unf	100	4-25mm
5/16-24 Unf	120	5-45mm
3/8-24 Unf	120	5-45mm
7/16-20 Unf	120	5-45mm
1/2-20 Unf	180	5-45mm
9/16-18 Unf	180	5-45mm
5/8-18 Unf	180	5-45mm
3/4-16 Unf	180	5-45mm
7/8-14 Unf	180	5-45mm

unit:mm

UNEF	Handle No.	Measur. Depth
12-32 Unef	100	4-25mm
1/4-32 Unef	100	4-25mm
5/16-32 Unef	120	5-45mm
3/8-32 Unef	120	5-45mm
7/16-28 Unef	120	5-45mm
1/2-28 Unef	180	5-45mm
9/16-24 Unef	180	5-45mm
5/8-24 Unef	180	5-45mm
11/16-24 Unef	180	5-45mm
3/4-20 Unef	180	5-45mm
13/16-20 Unef	180	5-45mm
7/8-20 Unef	180	5-45mm

unit:mm

G.-ISO 228	Handle No.	Measur. Depth
1/16-28 G.ISO	120	4-25mm
1/8-28 G.ISO	120	4-25mm
1/4-19 G.ISO	180	5-45mm
3/8-19 G.ISO	180	5-45mm
1/2-14 G.ISO	180	5-45mm

unit:mm

NPTF-ANSI	Handle No.
1/8-27 Nptf L1	120
1/8-27 Nptf L3	120
1/4-18 Nptf L1	180
1/4-18 Nptf L3	180
3/8-18 Nptf L1	180
3/8-18 Nptf L3	180
1/2-14 Nptf L1	180
1/2-14 Nptf L3	180

unit:mm

NPT ANSI	Handle No.
1/8-27 Npt	120
1/4-18 Npt	180
3/8-18 Npt	180
1/2-14 Npt	180

API THREAD GAGE

We Pride, excellent in threading and gauging solutions, is one of the leading threading and gauging solutions supplier of Oil Country threads Gauges (standard: API Spec5B&API Spec7-2&API Spec11 B), ANSI/ASME B1.20.1 / ISO 228 /BS 341/DIN 477 Threads, and the custom thread in China, One stop shopping for threading and gauging solutions, staying in the beautiful and industrial city, Suzhou City, China. Our products were used widely in Oil and Gas, Motor Sport, Aerospace and Defense, and Shipbuilding Industry and so on.



API Spec 5B working gage and master gage

1.BUTTRESS CASING THREAD GAGE

MEET INTERNATIONAL
STANDARD API 5B



BUTTRESS CASING (BCSG)

Model No.	SIZE	T.P.I.	T.P.F.	PITCH DIAMETER	STANDOFF TOLERANCE
API-5B001	4-1/2	5	1:16	113.132	2.540±0.381
API-5B002	5			125.832	5.080±0.381
API-5B003	5-1/2			138.532	
API-5B004	6-5/8			167.107	
API-5B005	7			176.632	
API-5B006	7-5/8			192.507	
API-5B007	8-5/8			217.907	
API-5B008	9-5/8			243.307	
API-5B009	10-3/4			271.882	
API-5B010	11-3/4			297.282	
API-5B011	13-3/8			338.557	
API-5B012	16	1:12	1:12	404.825	4.445±0.381
API-5B013	18-5/8			471.500	
API-5B014	20			506.425	

2. CASING-ROUND THREAD GAGE

MEET INTERNATIONAL
STANDARD API 5B



CASING SHORT-THREAD (CSG)

Model No.	SIZE	T.P.I.	T.P.F.	PITCH DIAMETER	STANDOFF TOLERANCE
API-5B015	4-1/2	8	1:16	111.846	9.525±0.635
API-5B016	5			124.546	
API-5B017	5-1/2			137.246	
API-5B018	6-5/8			165.821	
API-5B019	7			175.346	
API-5B020	7-5/8			191.114	
API-5B021	8-5/8			216.514	
API-5B022	9-5/8			241.914	
API-5B023	10-3/4			270.489	
API-5B024	11-3/4			295.889	
API-5B025	13-3/8			337.164	
API-5B026	16			403.839	
API-5B027	18-5/8			470.514	
API-5B028	20	505.439			

3. NON-UPSET TUBING THREAD GAGE

MEET INTERNATIONAL
STANDARD API 5B



NON-UPSET TUBING (NUE/TBG)

Model No.	SIZE	T.P.I.	T.P.F.	PITCH DIAMETER	STANDOFF TOLERANCE
API-5B029	2-3/8	10		58.757	7.620±0.635
API-5B030	2-7/8			71.457	
API-5B031	3-1/2		1:16	87.332	
API-5B032	4	8		99.414	9.525±0.635
API-5B033	4-1/2			112.114	

4.EXTERNAL UPSET TUBING THREAD GAGE



MEET INTERNATIONAL
STANDARD API 5B

UPSET TUBING (EUE/UPTBG)

Model No.	SIZE	T.P.I.	T.P.F.	PITCH DIAMETER	STANDOFF TOLERANCE
API-5B034	2-3/8	8	1:16	63.697	9.525±0.635
API-5B035	2-7/8			76.397	
API-5B036	3-1/2			93.064	
API-5B037	4			105.764	
API-5B038	4-1/2			118.464	

API Spec 7-2 working gage and master gage

1.REGULAR CONNECTIONS THREAD GAGE



MEET INTERNATIONAL
STANDARD API 7-2

REGULAR ROTARY (REG)

Model No.	SIZE	THREAD FORM	T.P.I.	T.P.F.	PITCH DIAMETER	STANDOFF TOLERANCE
API-72001	REG 2-3/8	V-0.040	5	1:4	60.080	15.875±0.100
API-72002	REG 2-7/8				69.605	
API-72003	REG 3-1/2				82.293	
API-72004	REG 4-1/2				110.868	
API-72005	REG 5-1/2	V-0.050	4	1:6	132.944	
API-72006	REG 6-5/8				146.248	
API-72007	REG 7-5/8			1:4	170.549	
API-72008	REG 8-5/8				194.731	

2.NC CONNECTIONS THREAD GAGE



MEET INTERNATIONAL
STANDARD API 7-2

NUMBERED CONNECTIONS (NC)

Model No.	SIZE	THREAD FORM	T.P.I.	T.P.F.	PITCH DIAMETER	STANDOFF TOLERANCE
API-72009	NC23	V-0.038R	4	1:6	59.817	15.875±0.100
API-72010	NC26(IF 2-3/8)				67.767	
API-72011	NC31(IF 2-7/8)				80.848	
API-72012	NC35				89.687	
API-72013	NC38(IF 3-1/2)				96.723	
API-72014	NC40(FH4)				103.429	
API-72015	NC44				112.192	
API-72016	NC46(IF 4)			117.500	1:4	
API-72017	NC50(IF 4-1/2)			128.059		
API-72018	NC56			142.646		
API-72019	NC61			156.921		
API-72020	NC70			179.146		
API-72021	NC77			196.621		

3.Full Hole (F.H.) GAGE



MEET INTERNATIONAL
STANDARD API 7-2

FULL HOLE (FH)

Model No.	SIZE	THREAD FORM	T.P.I.	TAPER	T.P.F.	STANDOFF TOLERANCE
API-72022	FH 2-7/8	V-0.040	5	1:4	3	15.875±0.100
API-72023	FH 3-1/2	V-0.040	5	1:4	3	
API-72024	FH 4-1/2	V-0.040	5	1:4	3	
API-72025	FH 5-1/2	V-0.050	4	1:6	2	
API-72026	FH 6-5/8	V-0.050	4	1:6	2	

4.HUGHES 90 THREAD GAGE



MEET INTERNATIONAL STANDARD API 7-2

Hughes 90 Thread Gages

Model No.	SIZE	T.P.I.	T.P.F.
API-72027	3-1/2" H90	3.5	1:6
API-72028	4" H90	3.5	1:6
API-72029	4-1/2" H90	3.5	1:6
API-72030	5" H90	3.5	1:6
API-72031	5-1/2" H90	3.5	1:6
API-72032	6-5/8" H90	3.5	1:6
API-72033	7" H90	3.5	1:4
API-72034	7-5/8" H90	3.5	1:4
API-72035	8-5/8" H90	3.5	1:4

INDIVIDUAL TEST WEIGHT CLASS E2

Class E2 • Individual weights, compact shape, polished stainless steel



Test weight material: Polished stainless steel
Container material: Lined plastic

Individual weight		
		Tol ± mg
P313-10	1 mg	0,006
P313-11	2 mg	0,006
P313-12	5 mg	0,006
P313-13	10 mg	0,008
P313-14	20 mg	0,010
P313-15	50 mg	0,012
P313-16	100 mg	0,016
P313-17	200 mg	0,020
P313-18	500 mg	0,025
P313-19	1 g	0,03
P313-20	2 g	0,04
P313-21	5 g	0,05
P313-22	10 g	0,06
P313-23	20 g	0,08
P313-24	50 g	0,10
P313-25	100 g	0,16
P313-26	200 g	0,3
P313-27	500 g	0,8
P313-28	1 kg	1,6
P313-29	2 kg	3,0
P313-30	5 kg	8,0
P313-31	10 kg	16,0
P313-32	20 kg	30,0

TEST WEIGHT SET CLASS E2



Weight set	
P313-10S	1 mg - 500 mg
P313-11S	1 mg - 50 g
P313-12S	1 mg - 100 g
P313-13S	1 mg - 200 g
P313-14S	1 mg - 500 g
P313-15S	1 mg - 1 kg
P313-16S	1 mg - 2 kg
P313-17S	1 mg - 5 kg
P313-18S	1 g - 100 g
P313-19S	1 g - 200 g
P313-20S	1 g - 500 g
P313-21S	1 g - 1 kg
P313-22S	1 g - 2 kg
P313-23S	1 g - 5 kg
P313-24S	1 g - 10 kg

INDIVIDUAL TEST WEIGHT CLASS F2

Class F2 • Individual weights, compact shape, polished stainless steel



Test weight material: Polished stainless steel
Container material: Lined plastic

Individual weight		
		Tol ± mg
P315-10	1 mg	0,06
P315-11	2 mg	0,06
P315-12	5 mg	0,06
P315-13	10 mg	0,08
P315-14	20 mg	0,10
P315-15	50 mg	0,12
P315-16	100 mg	0,16
P315-17	200 mg	0,20
P315-18	500 mg	0,25
P315-19	1 g	0,3
P315-20	2 g	0,4
P315-21	5 g	0,5
P315-22	10 g	0,6
P315-23	20 g	0,8
P315-24	50 g	1,0
P315-25	100 g	1,6
P315-26	200 g	3,0
P315-27	500 g	8,0
P315-28	1 kg	16,0
P315-29	2 kg	30,0
P315-30	5 kg	80,0
P315-31	10 kg	160,0
P315-32	20 kg	300,0

TEST WEIGHT SET CLASS F2



Weight set	
P315-10S	1 mg - 500 mg
P315-11S	1 mg - 50 g
P315-12S	1 mg - 100 g
P315-13S	1 mg - 200 g
P315-14S	1 mg - 500 g
P315-15S	1 mg - 1 kg
P315-16S	1 mg - 2 kg
P315-17S	1 mg - 5 kg
P315-18S	1 g - 100 g
P315-19S	1 g - 200 g
P315-20S	1 g - 500 g
P315-21S	1 g - 1 kg
P315-22S	1 g - 2 kg
P315-23S	1 g - 5 kg
P315-24S	1 g - 10 kg



DIGITAL BEVEL PROTRACTOR
DIAL BEVEL PROTRACTOR
VERNIER BEVEL PROTRACTOR
CLAMP PROTRACTOR
ADJUSTABLE PROTRACTOR

DIGITAL LEVEL
DIGITAL LEVEL BOX
DIGITAL ANGLE LEVEL

FOLDING RULER
CIRCUMFERENCE PI TAPE
FEELER GAGE STOCK

BEVELED EDGE SQUARE
FLAT STEEL SQUARE
SQUARE WITH WIDE BASE
WORKSHOP SQUARE
CARPENTER'S SQUARE
FLANGE STEEL SQUARE
KNIFE STRAIGHT EDGE



STRAIGHT EDGE
PRECISION CENTER SQUARE
STEEL RULER

DIGITAL COMBINATION SQUARE SET
COMBINATION SQUARE SET



DIGITAL MEASURING TAPE
RUBBER MEASURING TAPE
PRECISION BLOCK LEVEL
PRECISION FRAME LEVEL



UNIVERSAL DIGITAL BEVEL PROTRACTOR

FEATURES:

- With 2 blades (150 /300 mm), 90° square and angle stop
- Accuracy : $\pm 5'$
- Stainless steel, hardened and fine ground
- Rugged ABS-plastic housing, multifunctional display
- With fine adjustment for easy adjustment and fixing device for the blade
- Two display lines, resolution in 1. line with 0.005° and in 2. line with min. $10''$
- Preset to $360^\circ / 180^\circ / 90^\circ$, two measuring directions selectable
- On/Off button, mode-button, set-button, zero setting at any position
- automatic switch off after approx. 5 min
- Incl. 1x 3 V battery (type CR2032), with operation manual
- With data output
- In case



Option

- Data transfer cable, model:P7000-3603C

unit:mm

Model No.	Range mm	Blades mm
P7000-3603	4 x 90° , 2 x 180° , 360°	150 / 300

UNIVERSAL DIGITAL BEVEL PROTRACTOR

FEATURES:

- With 2 blades (150 /300 mm), 90° square and angle stop
- Accuracy : $\pm 5'$
- Stainless steel, hardened and fine ground
- Rugged ABS-plastic housing, multifunctional display
- With fine adjustment for easy adjustment and fixing device for the blade
- Two display lines, resolution in 1. line with 0.005° and in 2. line with min. $10''$
- Preset to $360^\circ / 180^\circ / 90^\circ$, two measuring directions selectable
- On/Off button, mode-button, set-button, zero setting at any position
- automatic switch off after approx. 5 min
- Incl. 1x 3 V battery (type CR2032), with operation manual
- In case



unit:mm

Model No.	Range mm	Blades mm
P7001-3605	4 x 90° , 2 x 180° , 360°	150 / 300

UNIVERSAL DIGITAL BEVEL PROTRACTOR

FEATURES:

- Precise angle measurement for tooling and fixtures, assembly, machining, mold making, and for use as a standard
- Blade: Stainless steel
- Display mode: $[\circ]$, $[\prime]$
- +/- switching mode
- 0-Reference can be set at any position
- Display orientation can be flipped 180°
- Resolution: $1' \cdot 0.01^\circ$
- Accessories: Blade 150mm, blade 300mm, acute angle attachment, master square
- CR2032 lithium battery



Big display. Angle memory saved and can use immediately.



with additional angle and rule



Model No.	Range mm	Blades mm
P7000-3600	$\pm 360^\circ$	150 / 300

DIGITAL PROTRACTOR

FEATURES:

- For high precision accuracy and safety reading
- LCD display with clear reading, digit height 10 mm
- Stainless, hardened and fine ground
- On/Off button, with fixing screw
- Zero setting at any position, with data hold function
- Reading of values in display by 180° switchable
- Incl. 1x 3 V battery



unit:mm

Model No.	Size AxB	Resolution	Accuracy	L	C
P7010-120	120x150mm	0.05°	±0.3°	222	22mm
P7010-150	150x200mm	0.05°	±0.3°	286	22mm
P7010-200	200x300mm	0.05°	±0.3°	410	22mm

7 < G4? CE BGE 46GBE

FEATURES:

- Range: 10° – 170°
- Buttons: on/off, zero, hold/turn
- Made of stainless steel
- With clamping screw
- The blade is moveable



Model No.	Size AxB	Resolution	Accuracy	C
P7011-120	100x150mm	0.05°	±0.3°	22mm
P7011-150	150x300mm	0.05°	±0.3°	22mm
P7011-200	200x400mm	0.05°	±0.3°	24mm

DIGITAL PROTRACTOR

FEATURES:

- Base and ruler made of steel, 4 mm
- Thickness 4 mm
- Range 0 - 180°
- Reading 0.05°
- With On/Off, Zero and Dir button
- With fixing screw

unit:mm

Model No.	Size (B x L) mm
P7214-01	120 x 150
P7214-02	150 x 200
P7214-03	200 x 300
P7214-04	300 x 600
P7214-05	400 x 800
P7214-06	400 x 1000



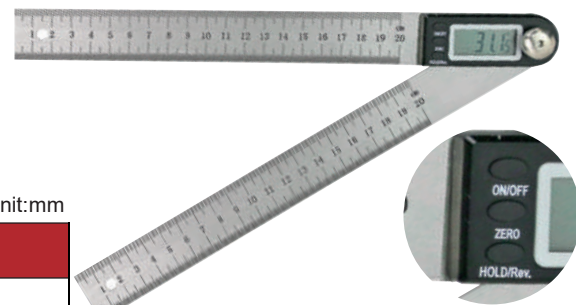
7 < G4? 4A: ?8?8 8?

FEATURES:

- Range 0 - 180°
- Reading 0.1°
- Display value reversible
- With ON/OFF, ZERO and HOLD/REV button
- Ruler with mm scale

unit:mm

Model No.	Length mm	Profile mm
P7214-142	200	27 x 1.2
P7214-143	300	27 x 1.2



DIAL UNIVERSAL BEVEL PROTRACTOR

FEATURES:

- Made of stainless steel
- Measuring Range : 360°.
- Accuracy : 5'
- With fine adjustment.
- Can be used with a standard height gauge to provide angular measurement from reference plate



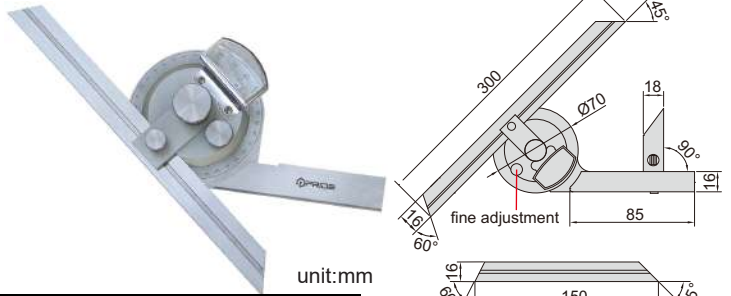
Model No.	Resolution	Remark
P7004-150	5'	With 150mm blade
P7004-200	5'	With 200mm blade
P7004-300	5'	With 300mm blade
P7004-123	5'	With 150,200,300mm blades

unit:mm

VERNIER UNIVERSAL BEVEL PROTRACTOR

FEATURES:

- Stainless, hardened and fine ground
- Scales matt chrome finish
- Parallaxfree reading by vernier, with large magnifying lens
- With fine adjustment
- Incl. 90° angled adjustment and angle stop



unit:mm

Model No.	Resolution	Remark
P7005-150	5'	With 150mm blade
P7005-200	5'	With 200mm blade
P7005-300	5'	With 300mm blade
P7005-123	5'	With 150,200,300mm blades

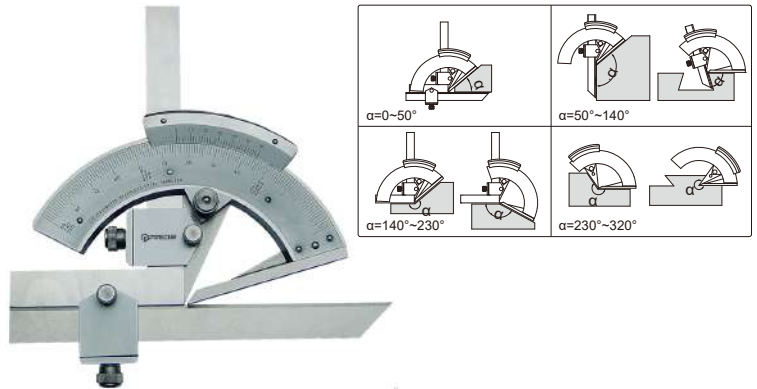
VERNIER PROTRACTOR

FEATURES:

- Made of stainless steel
- Measuring Range : 320°
- Satin chrome plated scale
- With fine adjustment.

unit:mm

Model No.	Graduation	Accuracy
P7006-320	2'	±2'



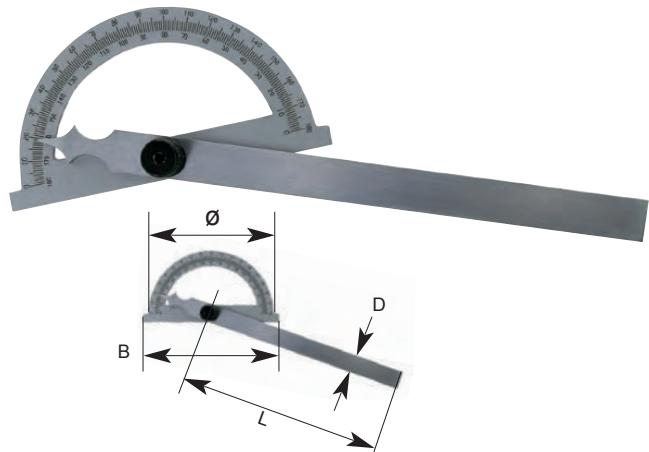
CLAMP PROTRACTOR

FEATURES:

- Satin chrome finished
- Range 0 - 180°
- Reading 1°
- With fixing screw

unit:mm

Model No.	Size (B x L) mm	Ø mm	D mm
P7008-006	80 x 120	74	12
P7008-007	120x 150	110	12
P7008-008	150x 200	140	12
P7008-009	200x 300	186	16
P7008-010	300x 500	230	30
P7008-011	300x 600	280	30
P7008-012	400x 800	370	40
P7008-013	400x 1000	370	40



ADJUSTABLE PROTRACTOR

FEATURES:

- Satin chrome finished
- Range 0 - 180°
- With fixing screw

Model No.	Size mm	Remarks
P7008-011R	85x150	round type
P7008-011S	85x150	square type



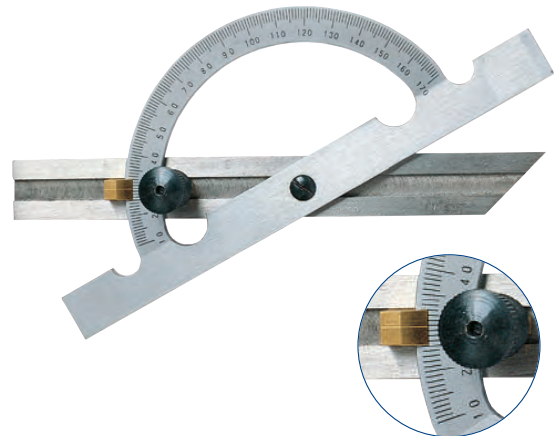
ADJUSTABLE PROTRACTOR

FEATURES:

- Satin chrome finished
- Range 10 - 170°
- Reading 1°
- With fixing screw
- Blade adjustable in length

unit:mm

Model no.	Size (B x L) mm
P7008-001	100 x 150
P7008-002	150 x 300
P7008-003	200 x 400
P7008-004	250 x 500
P7008-005	300 x 600



DIGITAL PROTRACTOR IP65

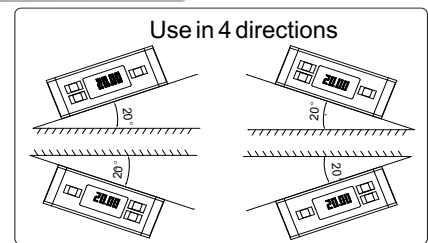
FEATURES:

- Sturdy housing with aluminium V-prism at top and bottom side
- Magnetic discs in the V-bottom
- Large LCD display, with clear reading, digit height 9 mm
- With acoustic signal and backlight
- Autom. 180° rotating display, by turning up-side down
- With data hold function, ABS system, with easy to handle self calibration
- On/Off- and zero button, zero setting at any position
- incl. 2x 1.5 V battery (type AAA),with operation manual
- Dimension:152x33x60mm



Unit: mm

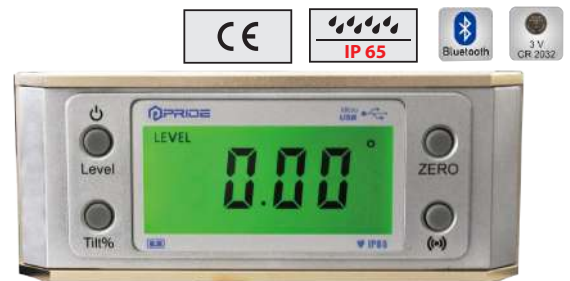
Model No.	Range	Resolution	Accuracy
P7002-365	4 x 90°(360°)	0.05°	±0.15°



DIGITAL LEVEL IP65

FEATURES:

- Level measuring function
- Relative angle measuring
- Magnet at measuring faces
- With charging function
- P7009-90BW is bluetooth function



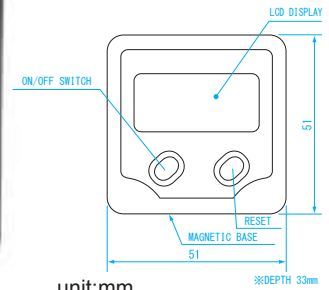
Model No.	Range mm/in	Resolution	Accuracy
P7009-90B	4*90°	0.05°	±0.2°
P7009-90BW	4*90°	0.05°	±0.2°

Unit: mm

DIGITAL LEVEL BOX

FEATURES:

- Measuring range: ±180°
- Resolution: 0.1°
- Accuracy: ±0.2°
- Repeatability: 0.1°
- Battery: 2xAAA battery
- Magnetized bottom
- Absolute zero measurement based on the level surface.
- Working temperature: -10 to 50°C



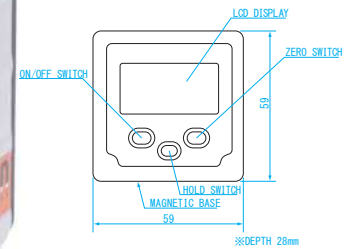
unit:mm

Model No.	Measuring Range	Resolution	Operating Temperature	Accuracy	Repeatability	Weight
P7002BB	±180.0°	0.1°	5 ~ 45°C	±0.2°	0.1°	120g

DIGITAL LEVEL BOX

FEATURES:

- Measuring range: ±180°
- Resolution: 0.1°
- Accuracy: ±0.2°
- Repeatability: 0.1°
- Battery: AAA battery
- Large LCD with backlight for easy reading in a dark place
- "Hold" button to fix reading on display
- Absolute zero measurement based on the level surface.
- Working temperature: -10 to 50°C



unit:mm

Model No.	Measuring Range	Resolution	Operating Temperature	Accuracy	Repeatability	Weight
P7002BL	±180.0°	0.1°	5 ~ 45°	±0.2°	0.1°	70g

DIGITAL LEVEL BOX

FEATURES:

- Measuring range: ±180°
- Resolution: 0.05°
- Accuracy: ±0.2°
- Repeatability: 0.1°
- Battery: 2xAAA battery
- Magnetized bottom
- Absolute zero measurement based on the level surface.
- Working temperature: -10 to 50°C



unit:mm

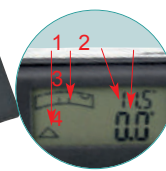
Model No.	Measuring Range	Resolution	Operating Temperature	Accuracy	Repeatability	Weight
P7215-209	±180.0°	0.05°	-10 ~ 50°C	±0.2°	0.1°	170g

DIGITAL LEVEL BOX

FEATURES:

- Casing made of plastic, base with permanent magnet
- Individual folding display
- Shows relative and absolute level simultaneous
- Reading: 0.1°
- Accuracy: 0.2° until 15°, 0.5° from 15° until 90°
- With hold function
- Battery AAA (included)

Unit: mm



- 1: relative incline direction
- 2: absolute incline direction
- 3: absolute level
- 4: relative level

Model no.	Range °	Dimension (L x H x B)
P7215-202	0 - 180	56 x 59 x 33

DIGITAL LEVEL

FEATURES:

- Suitable for setting horizontal and vertical mitre angles of cutting machines
- Buttons: ON/OFF, HOLD/SUP, SPR/CNR/MTR/BVL IP54 dust/waterproof
- With transverse and longitudinal vials 2xAAA batteries
- Absolute level, zero setting is not needed when batteries are replaced
- Backlight turns off in one minute after reading is stable, automatic power off in 5 minutes



Unit: mm



Model no.	Range	Length mm
P7203-024	± 90° / 99mm/m	400
P7203-025	± 90° / 99mm/m	600
P7203-027	± 90° / 99mm/m	1000

DIGITAL ANGLE LEVEL

FEATURES :

- Increase/decrease angle : 0.1°
- Measuring precision : ± 0.5°
- Accurately measures angles.
- With pivot lock and spirit level(bubble) (Horizontal & Vertical).
- Illuminated LED display with light feature.
- Automatically shut off after five minutes.
- Digital Accuracy 0.1 degree for all ranges
- Display reading "Hold" function



Unit: mm

Model No.	Range mm	Resolution	Accuracy
P7204-210	0-225°	0.05°	±0.10°

DIGITAL ANGLE FINDER

FEATURES :

- Buttons: on/off, hold (keep the reading), zero, ABS (absolute and incremental measurement)
- Fix the locking screw at 4 positions for different measuring ranges: 0~225°, -225°~0°, -45°~180°, -180°~45°
- Remove the locking screw for 360° range
- With level vial
- Battery CR2032, automatic power off



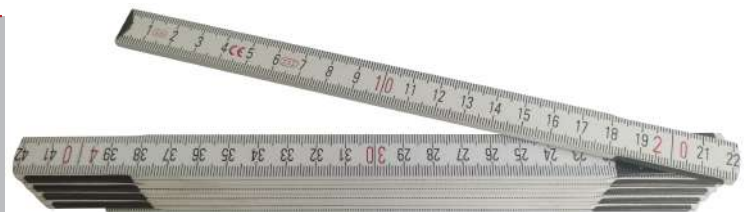
Unit: mm

Model No.	Range mm	Resolution	Accuracy
P7204-200	0-360°	0.05°	±0.15°

FOLDING RULER EC CLASS III

FEATURES:

- According EC class III
- With spring, graduation mm both sides on upper and lower edge
- Engraved graduation with red decimals
- Anti-wear double spring joints, stop at 90°
- Non-conductive, washable, does not scratch surfaces



Unit: mm

Model No.	Length m	Colour	Joints	Dimension joints
P7068-210	2m	white	10	16x3
P7068-212	2m	white	12	16x3
P7068-15	1m	white	5	16x3

CIRCUMFERENCE PI TAPE

FEATURES:

- Circumference tape for measuring the outside circumference and diameter; scaling according to DIN 866; with vernier, main scale 0.5mm, laser scaled.

TYPE A



TYPE B is optional



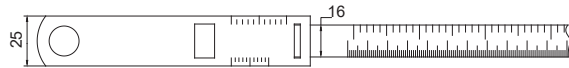
Model No Spring steel	Diameter (mm)	Thickness (mm)	Gage member (mm)	Reading (mm)	Accuracy (+/-)
PT-50SP	15-50	0.25	12.50	0.05	0.03mm
PT-200SP	28-200	0.25	12.50	0.01	0.03mm
PT-300SP	28-300	0.25	12.50	0.01	0.03mm
PT-301SP	50-300	0.25	12.50	0.01	0.03mm
PT-302SP	100-300	0.25	12.50	0.01	0.03mm
PT-600SP	50-600	0.25	12.50	0.01	0.03mm
PT-601SP	300-600	0.25	12.50	0.01	0.03mm
PT-900SP	300-900	0.25	12.50	0.01	0.03mm
PT-901SP	600-900	0.25	12.50	0.01	0.03mm
PT-1200SP	600-1,200	0.25	12.50	0.02	0.03mm
PT-1201SP	900-1,200	0.25	12.50	0.02	0.03mm
PT-1500SP	1,200-1,500	0.25	12.50	0.02	0.03mm
PT-1800SP	1,500-1,800	0.25	12.50	0.02	0.03mm
PT-2100SP	1,800-2,100	0.25	12.50	0.02	0.03mm
PT-2400SP	2,100-2,400	0.25	12.50	0.02	0.03mm
PT-2700SP	2,400-2,700	0.25	12.50	0.02	0.03mm
PT-3000SP	2,700-3,000	0.25	12.50	0.02	0.03mm
PT-3300SP	3,000-3,300	0.25	12.50	0.02	0.03mm
PT-3600SP	3,300-3,600	0.25	12.50	0.02	0.03mm
PT-3900SP	3,600-3,900	0.25	12.50	0.02	0.09mm
PT-4200SP	3,900-4,200	0.25	12.50	0.02	0.09mm
PT-4500SP	4,200-4,500	0.25	12.50	0.02	0.09mm
PT-4800SP	4,500-4,800	0.25	12.50	0.02	0.09mm
PT-5100SP	4,800-5,100	0.25	12.50	0.02	0.09mm
PT-5400SP	5,100-5,400	0.25	12.50	0.02	0.09mm
PT-5700SP	5,400-5,700	0.25	12.50	0.02	0.14mm
PT-6000SP	5,700-6,000	0.25	12.50	0.02	0.14mm
PT-6300SP	6,000-6,300	0.25	12.50	0.02	0.14mm
PT-6600SP	6,300-6,600	0.25	12.50	0.02	0.14mm

PT-6900SP	6,600-6,900	0.25	12.50	0.02	0.14mm
PT-7200SP	6,900-7,200	0.25	12.50	0.02	0.14mm
PT-7500SP	7,200-7,500	0.25	12.50	0.02	0.18mm
PT-7800SP	7,500-7,800	0.25	12.50	0.02	0.18mm
PT-8100SP	7,800-8,100	0.25	12.50	0.02	0.18mm
PT-8400SP	8,100-8,400	0.25	12.50	0.02	0.18mm
PT-8700SP	8,400-8,700	0.25	12.50	0.02	0.18mm
PT-9000SP	8,700-9,000	0.25	12.50	0.02	0.18mm

CIRCUMFERENCE PI TAPE

FEATURES:

- Circumference tape for measuring the outside circumference and diameter
- Graduation: 0.1mm
- Accuracy: Circumference: ±1.5mm
Diameter: ±0.5mm
- Laser engraved scale
- Made of stainless steel



Unit: mm

Model No.	Circumference mm	Diameter mm
PT-950P	60 - 950	20 - 300
PT-2200P	940 - 2200	300 - 700
PT-3460P	2190 - 3460	700 - 1100

FEELER GAUGE STOCK

FEATURES:

- Width: 12.7mm, length: 5M
- Stainless steel
- Thickness Size as following:



Unit: mm

Model No.	Size MM	Model No.	Size MM
PFG-B005	0.005	PFG-B20	0.20
PFG-B01	0.01	PFG-B25	0.25
PFG-B02	0.02	PFG-B30	0.30
PFG-B03	0.03	PFG-B35	0.35
PFG-B04	0.04	PFG-B40	0.40
PFG-B05	0.05	PFG-B45	0.45
PFG-B06	0.06	PFG-B50	0.50
PFG-B07	0.07	PFG-B55	0.55
PFG-B08	0.08	PFG-B60	0.60
PFG-B09	0.09	PFG-B70	0.70
PFG-B10	0.10	PFG-B80	0.80
PFG-B12	0.12	PFG-B90	0.90
PFG-B15	0.15	PFG-B100	1.00
PFG-B18	0.18		

90° BEVELED EDGE SQUARE

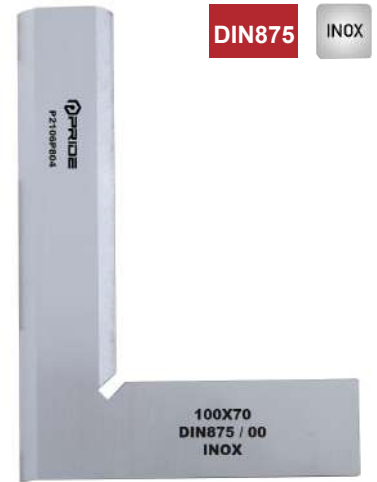
FEATURES:

- DIN875,00 and 0 grade
- Made of hardened stainless steel
- Satin chrome plating
- Beveled edges for inside and outside measurements

Unit: mm

Model No DIN875/00	Size mm
P7012-50	50×40
P7012-75	75×50
P7012-100	100×70
P7012-150	150×100
P7012-200	200×130
P7012-250	250×165
P7012-300	300×200

Model No DIN875/0	Size mm
P7013-50	50×40
P7013-75	75×50
P7013-100	100×70
P7013-150	150×100
P7013-200	200×130
P7013-250	250×165
P7013-300	300×200



DIN875

INOX

90° FLAT STEEL SQUARE

FEATURES:

- DIN875, 0 grade,1 grade, 2 grade
- Lapped measuring faces,flat edge
- Stainless steel hardened

Unit: mm

Model No. DIN875/0	Size mm
P7021-50	50x40
P7021-75	75x50
P7021-100	100x70
P7021-150	150x100
P7021-200	200x130
P7021-250	250x160
P7021-300	300x200

Model No. DIN875/1	Size mm
P7022-50	50x40
P7022-75	75x50
P7022-100	100x70
P7022-150	150x100
P7022-200	200x130
P7022-250	250x160
P7022-300	300x200
P7022-400	400x265
P7022-500	500x330

Model No. DIN875/2	Size mm
P7023-50	50x40
P7023-75	75x50
P7023-100	100x70
P7023-150	150x100
P7023-200	200x130
P7023-250	250x160
P7023-300	300x200
P7023-400	400x265
P7023-500	500x330



DIN875

INOX

90° FLAT STEEL SQUARE

FEATURES:

- DIN875, 0 grade,1 grade, 2 grade
- Lapped measuring faces,flat edge
- Carbon steel hardened

Unit: mm

Model No. DIN875/0	Size mm
P7030-50	50x40
P7030-75	75x50
P7030-100	100x70
P7030-150	150x100
P7030-200	200x130
P7030-250	250x160
P7030-300	300x200

Model No. DIN875/1	Size mm
P7031-50	50x40
P7031-75	75x50
P7031-100	100x70
P7031-150	150x100
P7031-200	200x130
P7031-250	250x160
P7031-300	300x200
P7031-400	400x265
P7031-500	500x330

Model No. DIN875/2	Size mm
P7032-50	50x40
P7032-75	75x50
P7032-100	100x70
P7032-150	150x100
P7032-200	200x130
P7032-250	250x160
P7032-300	300x200
P7032-400	400x265
P7032-500	500x330



DIN875

90° FLAT STEEL SQUARE WITH WIDE BASE

FEATURES:

- DIN875, 0 grade, 1 grade, 2 grade
- Lapped measuring faces, flat edge
- With wide base
- Stainless steel hardened

Model No. DIN875/0	Size mm	Model No. DIN875/1	Size mm	Model No. DIN875/2	Size mm
P7024-50	50x40	P7025-50	50x40	P7026-50	50x40
P7024-75	75x50	P7025-75	75x50	P7026-75	75x50
P7024-100	100x70	P7025-100	100x70	P7026-100	100x70
P7024-150	150x100	P7025-150	150x100	P7026-150	150x100
P7024-200	200x130	P7025-200	200x130	P7026-200	200x130
P7024-250	250x160	P7025-250	250x160	P7026-250	250x160
P7024-300	300x200	P7025-300	300x200	P7026-300	300x200
		P7025-400	400x265	P7026-400	400x265
		P7025-500	500x330	P7026-500	500x330

Unit: mm



DIN875

INOX

90° FLAT STEEL SQUARE WITH WIDE BASE

FEATURES:

- DIN875, 0 grade
- Lapped measuring faces, flat edge
- With wide base
- Stainless steel hardened

Model No. DIN875/0	Size mm
P7019-50	50x40
P7019-75	75x50
P7019-100	100x70
P7019-150	150x100
P7019-200	200x130
P7019-250	250x160
P7019-300	300x200

Unit: mm



DIN875

INOX

90° TOOL MAKER SQUARE

FEATURES:

- DIN875 grade 00
- Beveled edge for inside measurement
- Made of hardened stainless steel

Model No	Size mm
P7020-25	25x20
P7020-40	40x28

Unit: mm



DIN875

INOX

60° SQUARE

FEATURES:

- DIN875, 2 grade
- Hardened stainless steel

NO BASE

Model No. DIN875/2	Size mm
P7037-100S	100x70
P7037-120S	120x80
P7037-150S	150x100
P7037-200S	200x130

WITH BASE

Model No. DIN875/2	Size mm
P7039-100S	100x70
P7039-120S	120x80
P7039-150S	150x100
P7039-200S	200x130

Unit: mm



DIN875

INOX

P7037-100S

P7039-100S

45° SQUARE

FEATURES:

- DIN875, 2 grade
- Hardened stainless steel

NO BASE

Model No DIN875/2	Size mm
P7041-100S	100×70
P7041-120S	120×80
P7041-150S	150×100
P7041-200S	200×130

WITH BASE

Unit: mm

Model No DIN875/2	Size mm
P7043-100S	100×70
P7043-120S	120×80
P7043-150S	150×100
P7043-200S	200×130



DIN875 INOX

120° SQUARE

FEATURES:

- DIN875, 2 grade
- Hardened stainless steel

Model No DIN875/2	Size mm
P7045-50S	50×50
P7045-75S	75×75
P7045-100S	100×100
P7045-150S	150×150
P7045-200S	200×200

Unit: mm



DIN875 INOX

135° SQUARE

FEATURES:

- DIN875, 2 grade
- Hardened stainless steel

NO BASE

A cXY`Bc 8-B, +) #&	GjnY`a a
P7047-50S	50×50
P7047-75S	75×75
P7047-100S	100×100
P7047-150S	150×150
P7047-200S	200×200

WITH BASE

Unit: mm

A cXY`Bc 8-B, +) #&	GjnY`a a
P7048-100S	100×70
P7048-120S	120×80
P7048-150S	150×100
P7048-200S	200×130
P7048-250S	250×165

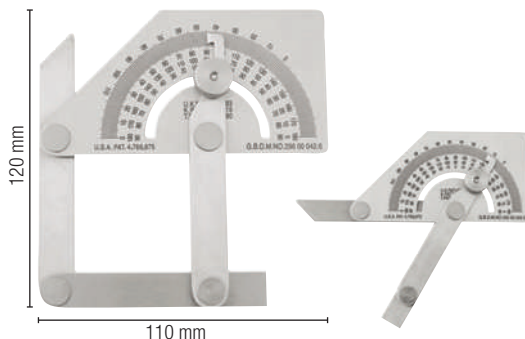


DIN875 INOX

ADJUSTABLE PROTRACTOR

FEATURES:

- Used for in- and outside measurement of angles and slopes.



Model No.	Resolution	Unit: mm
P7050-39	1°	

ADJUSTABLE BEVELED EDGE SQUARE

FEATURES:

- DIN 875/00, precision square for toolmakers etc.
- Made of hardened stainless steel



DIN875

INOX

Model No.	Block size	Edge size	Unit: mm
P7050-40	40×23×10	60×4×4	

BIG SIZE SQUARE DIN 875 GRADE 2

FEATURES:

- DIN 875 Grade 2
- Flat or with back
- Made of carbon steel

Model No. Flat type	Model No. Back type	Size mm
P7061-750	P7062-750	750x375
P7061-1000	P7062-1000	1000x500
P7061-1500	P7062-1500	1500x750
P7061-2000	P7062-2000	2000x1000



STEEL SQUARE WITH METRIC GRADUATED BLADE

FEATURES:

- Measurement of squareness
- Stainless steel
- Graduated with 1mm division
- Factory standard grade 2

Unit: mm

Model No.	Blade length mm	Base length mm
P7060-100	100	70
P7060-150	150	100
P7060-200	200	130
P7060-250	250	165
P7060-300	300	200
P7060-400	400	200
P7060-500	500	300
P7060-600	600	300
P7060-1000	1000	550



WORKSHOP SQUARE

FEATURES:

- Flat or with back
- Made of carbon steel, zinc plated
- Factory standard

Unit: mm

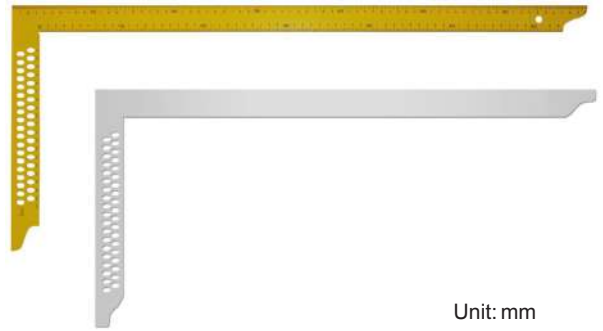
Model No. Flat type	Model No. Back type	Size mm
P7061-100E	P7062-100E	100X70
P7061-150E	P7062-150E	150x100
P7061-200E	P7062-200E	200x130
P7061-250E	P7062-250E	250x160
P7061-300E	P7062-300E	300x180
P7061-400E	P7062-400E	400x230
P7061-500E	P7062-500E	500x280
P7061-600E	P7062-600E	600x330
P7061-750E	P7062-750E	750x375
P7061-1000E	P7062-1000E	1000x500
P7061-1500E	P7062-1500E	1500x750
P7061-2000E	P7062-2000E	2000x1000



CARPENTER'S SQUARE

FEATURES:

- Stainless, spring steel
- With or without marking holes, at your choice
- P7063-700M yellow, powder coated surface with cm-graduation and marking holes



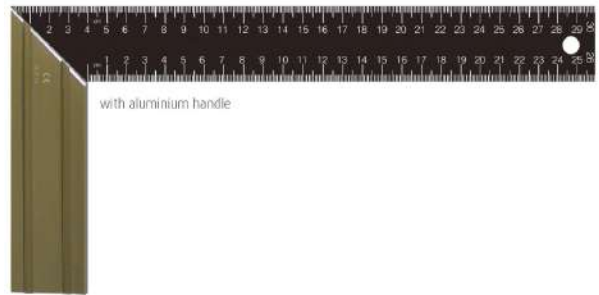
Unit: mm

With marking holes	Yellow with marking holes	Range mm	Steel blade mm
P7063-500	-	500x260	35x15
P7063-600	-	600x280	35x15
P7063-700	P7063-700M	700x300	35x15
P7063-800	P7063-800M	800x320	35x15
P7063-1000	P7063-1000M	1000x380	35x15

UNIVERSAL SQUARE

FEATURES:

- With hardened aluminium blade (HRB 70) and elocated aluminium handle
- For general carpentry and metal work ,etc.
- With black anodized aluminium blade, non glare reading
- Anodised aluminium handle with profile grooves
- With 45°mitre
- Graduation on front-and rear side
- Laser engraved scale for clear reading



Graduation at type B= mm-mm/mm-mm

Graduation at type C= mm-mm/inch-inch

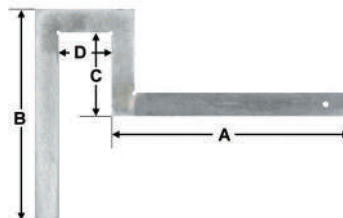
Unit: mm

Type B Model No.	Range mm	Type C Model No.	Range mm/inch	Length of handle mm	Aluminium handle mm	Aluminium blade mm
P7064-150	150	P7065-150	150/6	130	40x12	40x20
P7064-200	200	P7065-200	200/8	130	40x12	40x20
P7064-250	250	P7065-250	250/10	145	40x12	40x20
P7064-300	300	P7065-300	300/12	145	40x12	40x20
P7064-400	400	P7065-400	400/16	170	40x12	40x20
P7064-500	500	P7065-500	500/20	170	40x12	40x20

FLANGE STEEL SQUARE

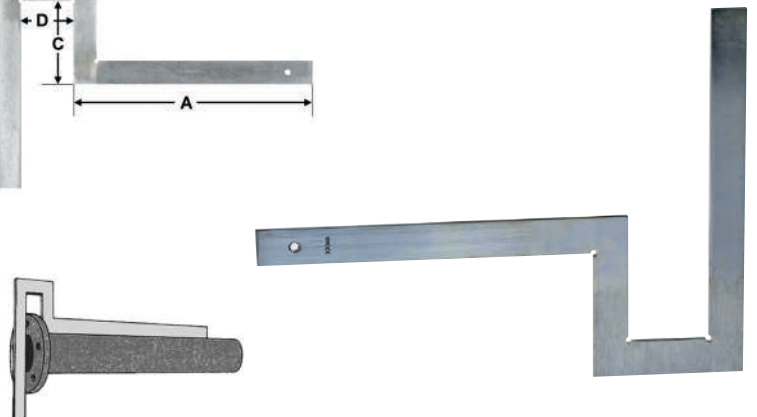
FEATURES:

- For fitters and pipeline constructions
- To adjust the flange
- Steel, galvanized finish



Unit: mm

Model No	Range mm AxBxCxD
P7066-300	300x300x105x65
P7066-400	400x400x115x65
P7066-200	500x500x125x70
P7066-600	600x500x125x70
P7066-800	800x500x125x95
P7066-1000	1000x500x125x95



PRECISION KNIFE STRAIGHT EDGE

DIN874 **INOX**

FEATURES:

- DIN874 00 / 0
- For testing according to the light-gap method
- Stainless steel, anti-glare matt chromed, hardened and fine ground
- Bevelled edges finely ground and lapped
- With insulation handle



Unit: mm

Model No. DIN874/00	Model No. DIN874/0	Length mm
P7054-50A	P7054-50B	50
P7054-75A	P7054-75B	75
P7054-100A	P7054-100B	100
P7054-125A	P7054-125B	125
P7054-150A	P7054-150B	150
P7054-200A	P7054-200B	200
P7054-250A	P7054-250B	250
P7054-300A	P7054-300B	300
P7054-400A	P7054-400B	400
P7054-500A	P7054-500B	500
P7054-600A	P7054-600B	600
	P7054-800B	800
	P7054-1000B	1000
	P7054-1200B	1200



PRECISION STRAIGHT EDGE

FEATURES:

- Stainless steel
- Flat edge and bevel edge
- Factory standard
- Leather box and wooden box



Flat edge



Bevel edge

Model No. Flat edge	Model No. Bevel edge	Length mm	Width mm	Thicknes mm
P7059-300F	P7059-300B	300	40	5
P7059-500F	P7059-500B	500	40	5
P7059-800F	P7059-800B	800	40	5
P7059-1000F	P7059-1000B	1000	50	5
P7059-1500F	P7059-1500B	1500	60	7
P7059-2000F	P7059-2000B	2000	60	7
P7059-3000F	P7059-3000B	3000	60	7

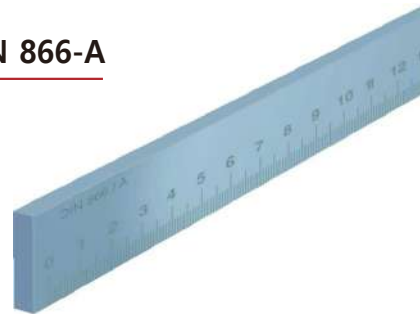
PRECISION GRADUATED STRAIGHT EDGE DIN 866-A

DIN866

INOX

FEATURES:

- Quality DIN 866 form A
- mm graduation on bottom edge
- Flat side finely ground
- Vertical edges finely ground, can be used as a rule
- Stainless steel quality
- Leather box and wooden box



Unit: mm

Model No.	Length mm	Width mm	Thicknes mm	Accuracy [μ m]
P7057-300-A	300	40	5	40
P7057-500-A	500	40	5	40
P7057-1000-A	1000	50	5	40
P7057-1500-A	1500	60	7	60

PRECISION GRADUATED STRAIGHT EDGE DIN 866-B

DIN866

INOX

FEATURES:

- Quality DIN 866 form B
- mm graduation on bottom edge
- Flat side finely ground
- Vertical edges finely ground, can be used as a rule
- Stainless steel quality
- Leather box and wooden box



Unit: mm

Model No.	Length mm	Width mm	Thicknes mm	Accuracy [μ m]
P7057-300-B	300	40	5	100
P7057-500-B	500	40	5	100
P7057-1000-B	1000	50	5	100
P7057-1500-B	1500	60	7	150

PRECISION STRAIGHT EDGE DIN 874 GRADE 2

FEATURES:

- Quality DIN 874, accuracy GG 2
- Stainless steel
- Measuring surface are finely grinded
- Flatness of measuring surface according to DIN874
- Leather box and wooden box




Model No.	Length mm	Width mm	Thicknes mm	Accuracy [μ m]
P7058-300-2	300	40	5	21
P7058-500-2	500	40	5	21
P7058-1000-2	1000	50	5	33
P7058-1500-2	1500	60	7	46
P7058-2000-2	2000	60	7	58

ALUMINIUM STRAIGHT EDGE WITH BEVEL

FEATURES:

- Made of hard aluminium, anodized qualit
- With black cm graduation, printed



Model No.	Range mm	 mm	weight kg
P7067-300	300	50x5	0.20
P7067-600	600	50x5	0.35
P7067-1000	1000	50x5	0.61

Unit: mm

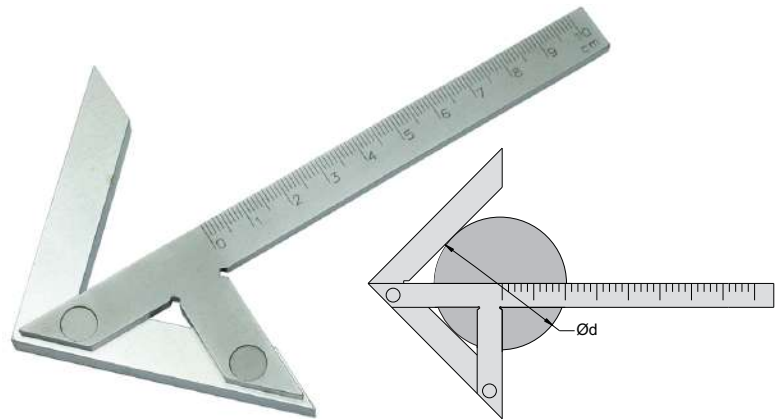
PRECISION CENTER SQUARE

FEATURES:

- DIN875/1 carbon steel,chrome plated

Model No DIN875/2	Range mm
P7052-100	100x70
P7052-150	150x130
P7052-200	200x150
P7052-250	250x160
P7052-300	300x180
P7052-400	400x250
P7052-500	500x330

Unit: mm



STEEL RULER

FEATURES:

- Graduation: with mm and 1/2 mm scale
- No glare finished stainless steel



Model No	Size mm (Length x Width x Thickness)
P7056-150	150x13x0.5 mm
P7056-200	200x13x0.5 mm
P7056-250	250x13x0.5 mm
P7056-300	300x26x0.8 mm
P7056-500	500x26x0.8 mm
P7056-600	600x26x0.8 mm
P7056-1000	1000x38x1.5 mm
P7056-1500	1500x38x1.5 mm
P7056-2000	2000x38x2.0 mm
P7056-2500	2500x40x1.2 mm
P7056-3000	3000x40x1.5 mm
P7056-3500	3500x30x1.0 mm
P7056-4000	4000x45x1.5 mm
P7056-5000	5000x45x1.5 mm

Unit: mm

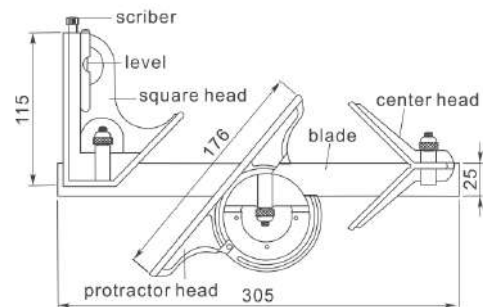
DIGITAL COMBINATION SQUARE SET

FEATURES:

- Higher accuracy with digital protractor newly applied
- Made by pro-coated mold and no blister on the surface
- Distinct lines and figures against the satin chrome finish making reading easily
- Include Centering ruler, I-square, Digital Protractor, Ruler
- Low surface roughness and high accuracy with surfaces precisely ground
- Graduation: 1.0/1/64" and 0.5/1/32"
- Accuracy: $\pm 10'$ within 0.15°



Model No.	Range mm	Graduation
P7007-002	0-300/0-12"	1.0/1/64" and 0.5/1/32"



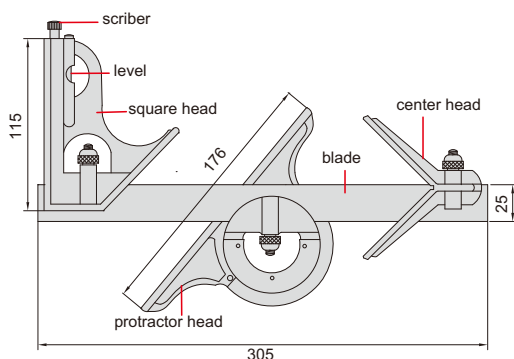
COMBINATION SQUARE SET

FEATURES:

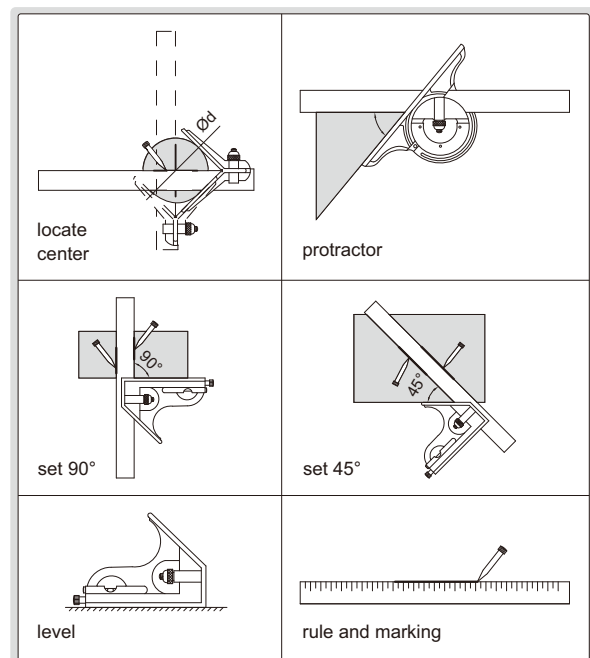
- Center head (made of cast iron): to locate center of cylinders with diameter (\varnothing): 30-100mm accuracy: ± 0.15 mm
- Protractor head (made of cast iron): set the blade at desired angle to an edge of a workpiece, and can be used to measure angles range: 0-180° accuracy: ± 20 min.
- Square head (made of cast iron): set the blade at 90° or 45° to an edge of a workpiece accuracy: ± 8 min for 90° square, ± 10 min for 45° square
- Blade (made of stainless steel): range: 300mm/12", graduation: 0.5mm and 1/32" on front face, 1mm and 1/64" on back face



P7007-001



Unit: mm

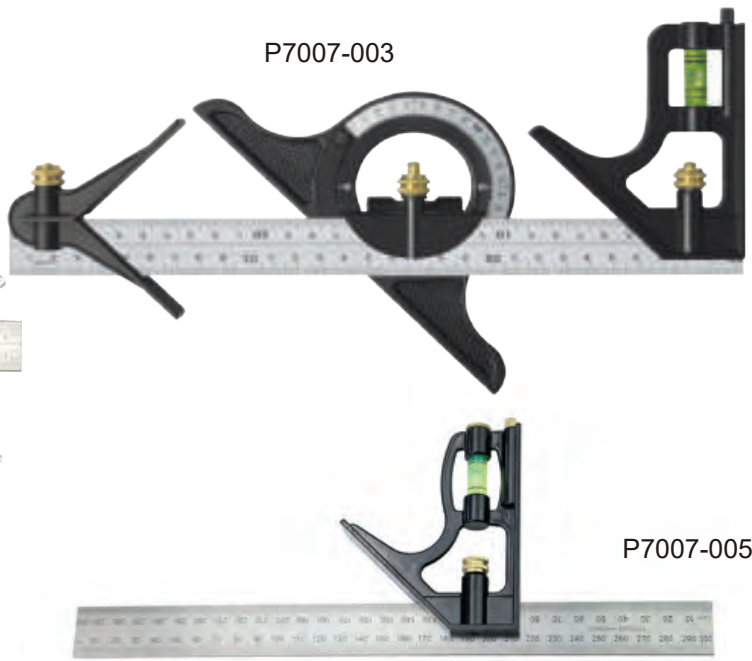


Model No.	Range mm	Ruler
P7007-001	0-180°	300mm/12"

COMBINATION SQUARE SET

FEATURES:

- Scribe and blade nickel plated, with cm/inch graduation
- Usable as height, depth gauge, bevel protractor, 45°, 135° control square or center squares
- In case



P7007-004

Model No.	Remarks
P7007-005	2pcs
P7007-004	3pcs
P7007-003	4pcs

DIGITAL MEASURING TAPE

FEATURES:

- Range 5M/16 ft breadth 19 mm
- Measurement: for length, for area, for volume
- Resolution: 1mm
- Accuracy: ±1mm(0-1M); travel ±3mm
- Convert unit orderly: mm, cm, m, in, ft
- Self-Lock button



Model No.	Range mm
DT-500	5M/16 ft

RUBBER MEASURING TAPE

FEATURES:

- Pocket measuring tapes, tape steel, stamped for accuracy according EC class II
- Impact absorbing rubber jacket for case and tip protection.



Model No.	Range mm
PF-3C7W	3M(10ft)x16mm(5/8")
PF-5C7E	5M(16ft)x19mm(3/4")
PF-7HC7X	7.5M(25ft)x25MM(1")

PRECISION BLOCK LEVEL

FEATURES:

- For checking horizontal surface and shaft
- Heat insulated grip
- Prism bottom, fine ground
- Optional graduation: 0.05mm/m, 0.0005"/10"



Model No	Size	Graduation	Model No	Size	Graduation
PWD100	100mm	0.02mm/m	PWD004	4"	0.0002"/10"
PWD150	150mm	0.02mm/m	PWD006	6"	0.0002"/10"

Unit: mm

PRECISION BLOCK LEVEL

FEATURES:

- For checking horizontal surface and shaft
- Heat insulated grip
- Prism bottom, fine ground
- Optional graduation: 0.05mm/m, 0.0005"/10"



Model No	Size	Graduation	Model No	Size	Graduation
PWT100	100mm	0.02mm/m	PWT004	4"	0.0002"/10"
PWT150	150mm	0.02mm/m	PWT006	6"	0.0002"/10"
PWT200	200mm	0.02mm/m	PWT008	8"	0.0002"/10"
PWT250	250mm	0.02mm/m	PWT010	10"	0.0002"/10"
PWT300	300mm	0.02mm/m	PWT012	12"	0.0002"/10"

Unit: mm

GENERAL PURPOSE PRECISION LEVEL

FEATURES

- Bubble tube indicates horizontal and measures small inclinations
- For machine installation and general mechanical assembly
- Quality cast iron with lapped finish to maintain precision
- Sensitivity : 0.02mm/m
- Accuracy of the main bubble Full range accuracy : Less than ± 2 graduation



Unit: mm

Model No	Size	Graduation
PSK150	150mm	0.02mm/m
PSK200	200mm	0.02mm/m
PSK300	300mm	0.02mm/m

PRECISION FRAME LEVEL

FEATURES:

- For checking horizontal and vertical surface and shaft
- With heat insulated handle and cross vial
- 2 prisms and 2 flat surfaces, fine ground
- Packed in wooden box
- Optional graduation: 0.05mm/m, 0.0005"/10"



Unit: mm

Model No	Size	Graduation	Model No	Size	Graduation
PWK100	100X100mm	0.02mm/m	PWK004	4x4"	0.0002"/10"
PWK150	150X150mm	0.02mm/m	PWK006	6x6"	0.0002"/10"
PWK200	200X200mm	0.02mm/m	PWK008	8x8"	0.0002"/10"
PWK250	250X250mm	0.02mm/m	PWK010	10x10"	0.0002"/10"
PWK300	300X300mm	0.02mm/m	PWK012	12x12"	0.0002"/10"

PRECISION OPTICAL COMPOSITE IMAGE LEVEL

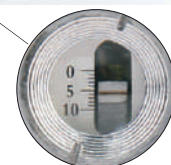
FEATURES:

- Mainly consists of the micrometer measuring screw, lever systems, standards, optical prisms and a V-shaped base composition working plane
- Dials partition value: 0.01mm / m
- Accuracy: ± 0.01 mm/m (range: ± 1 mm)
 ± 0.02 mm/m (other)
- Instrument Weight: 2 kg
- V angle: 120 degree



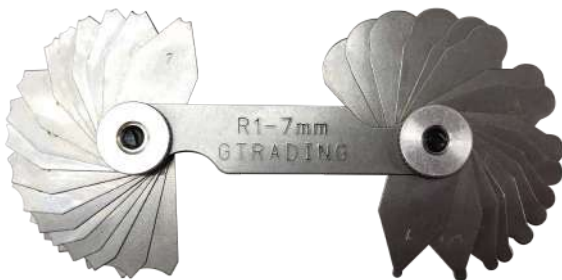
Unit: mm

Model No.	Range	Resolution	Dimensions
PBL-100	0-10mm	0.01mm	165x47mm





DIGITAL WELD GAGE
WELD GAGE
WELD GAGE SET
FEELER GAGE
THREAD CUTTER GAGE
ANGLE GAGE
SCREW PITCH GAGE
CENTER GAGE
RADIUS GAGE
DRILL TIP GAGE
WET FILM GAGE
TELESCOPE GAGE
SMALL HOLE GAGE
INSIDE CALIPER
OUTSIDE CALIPER
DIVIDER
ENGINEER'S SCRIBER
PRECISION ANGLE BLOCKS



DIGITAL WELD GAGE WG-1

Precision design, for measuring of flat welding seams and welding seams in corners. In order to observe the required V-seam-angle at flat welds, the angles of 60°, 70°, 80° and 90° are attached at the gauge.

FEATURES:

- Stainless steel, Hardened and ground
- Turn on/off, Switchable mm/inch
- Measured value showed on a big LCD-Display
- Resolution: 0,01 mm
- Power supply: Battery 1,55 V



Model No: WG-1

VERNIER WELD GAGE WG-2

FEATURES:

- Precision design for measuring of flat welding seams and welding seams in corners.
- In order to observe the required V-seam-angle at flat welds the angles of 60° degrees, 70° degrees, 80° degrees and 90° degrees are attached at the gauge.

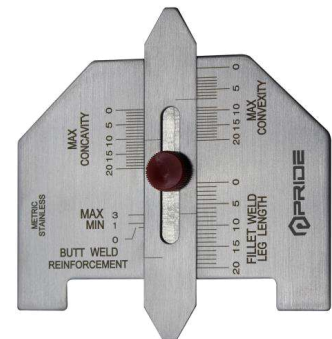


Model No: WG-2

AWS WELD GAGE WG-3

FEATURES :

- For Accurate Calibration of Butt and Fillet Type welds
- Angle of preparation, 0° to 60°
- Excess weld metal (capping size)
- Depth of undercut
- Depth of pitting
- Fillet weld throat size
- Fillet weld length
- Misalignment (high-low)



Model No: WG-3

HI-LO WELD GAGE WG-4

FEATURES:

- Hi-Lo Welding Gauge measures Internal alignment of pipe after fit-up/alignment, cuts radiographic rejects. Will also measure internal misalignment of pipe before and after tacking measurements read in standard one side, metric opposite side. Plus six other critical, required measurements! side



Model No: WG-4

HI-LO SINGLE PURPOSE WELD GAGE WG-5

FEATURES:

- Unlock the retaining screw. Press the gauge legs beyond the barrel
- Insert the legs (wires) into the root gap space of the two pieces of pipe to be fitted. Turn the gauge 90 degrees, being careful to apply a constant back pressure to the barrel
- Hold the gauge as square as possible with the fitting to obtain an accurate reading. Lock the retaining screw. Reverse the 90d turn and remove the gauge. You're now ready to read the increment opposite the red line
- When the red line aligns with the 1/32" increment you have a good internal alignment and fit-up. Misalignments can be determined



Model No: WG-5

WELD GAGE WG-6



Model No: WG-6

WELD GAGE WG-6A



Model No: WG-6A

FEATURES:

Weld gauge consists of three components: main scale, glide gauge and multiple-purpose gauge and is specially used for the measurement of the bevel angle of weldment, the height and gap size of all kinds of weld seams and the thickness of weldment's plan kings. It is suitable for the detection of the quality of beliers, bridges, chemistry machines, ships and pressure vessels. It is made of stainless steel.

Measurement item	Scale mm	Allowable margin of
Thickness of Weldment	0-40	±0.2
Height of	Multiple-purpose Gauge	±0.3
Weld Seam	Weld Gauge	±0.2
Gap Size of Weld Seam	1-3	±0.2
Bevel Angle of Weldment	0° -90°	±30'

Unit: mm

WELD GAGE WG-7

Unit: mm

Measurement item	Scale mm	Tolerance of
Surface Height	0-20	0.2
Thickness of Fillet Weld	0-12	0.2
Width	0-45	0.3
Undercut Depth of Welding Seam	0-5	0.1
Bevel Angle of Weldment	≤150°	30'
Gap Size	0.5-5	0.1



Model No: WG-7

WELD GAGE WG-8



Model No: WG-+

FEATURES:

WELD GAGE WG-8A



Model No: WG-+A

Weld gauge consists of three components: main scale, glide gauge and multiple-purpose gauge and is specially used for the measurement of the bevel angle of weldment, the height and gap size of all kinds of weld seams and the thickness of weldment's plan kings. It is suitable for the detection of the quality of beliers, bridges, chemistry machines, ships and pressure vessels. It is made of stainless steel.

Measurement item	Scale mm	Tolerance of
Height	Surface Height	0.2
	Height of Fillet Weld	0-12
	Thickness of Fillet Weld	0-15
Width	0-40	0.3
Undercut Depth of Welding Seam	0-5	0.1
Bevel Angle of Weldment	≤150°	30'
Gap Size	0.5-5	0.1

Unit: mm

WELD GAGE WG-9

FEATURES:

- The gauge consists of main scale, height gauge, undercut depth gauge and multiple-purpose gauge and is specially used for the measurement of the bevel angle, height, width, gap and undercut depth of weldment, suitable for the detection of boilers, bridges, ships, pressure vessels and oil pipes. It is made of stainless steel.



Model No: WG-9

Measurement item		Scale mm	Tolerance of
Height	Surface Height	0—15	0.2
	Height of Fillet Weld		0.2
	Thickness of Fillet Weld		0.2
Width		0-60	0.3
Undercut Depth of Welding Seam		0—5	0.1
Bevel Angle of Weldment		80°—160°	30'
Gap Size		0.5—6	0.1

Unit: mm

WELD FILLET GAGE WG-10

FEATURES:

- This gauge is used for checking the fillet throat size of the welded joint. It is made of stainless steel and is available in various sizes. It is used for checking the fillet throat size of the welded joint. It is made of stainless steel and is available in various sizes. It is used for checking the fillet throat size of the welded joint. It is made of stainless steel and is available in various sizes.



Checking Fillet Throat Size

Model No: WG-10

WELD GAGE WG-11

FEATURES:

- This gauge is a measuring tool for checking dimensions of the welding seam easily and quickly measuring errors as a consequence of the angular shrinking will mostly be avoided by the one-sided base of the gauge
- Graduation 0.2mm, accuracy ± 0.3 mm.
- Stainless steel
- Delivery in leather bag



Model No: WG-11

BRIDGE CAM GAGE WG-12

FEATURES:

- Angle of preparation, 0° to 60°
- Excess weld metal (capping size)
- Depth of undercut
- Depth of pitting
- Fillet weld throat size
- Fillet weld length
- Misalignment (high-low)

Bridge Cam Gauge WG-12 is a unique, versatile instrument for the inspection of welded surfaces and joints.

It measures angle of preparation, 0 to 60°, excess weld metal (capping size), depth of undercut, depth of pitting, fillet weld throat size, fillet leg length, misalignment (high-low), and linear measurements up to 60mm or 2 inches.

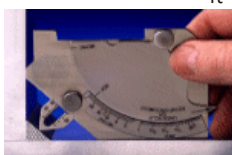
It measures in both inch or millimeters.



Model No : WG-12



Excess Weld Metal



Fillet Weld Throat



Angle of Preparation

V-WAC WELD GAGE WG-13

FEATURES:

- Checks undercut
- Crown Height
- Porosity & Pits
- Metric or English
- Stainless steel construction



Model No : WG-13

WELD GAGE WG-15

FEATURES:

- Fan-shaped with 12 blades for measuring the welding seam at rectangular welded corners from 3 to 12 mm.
- Design: Steel, polished



Model No : WG-15

TAPER GAGE WG-17

FEATURES:

- This metric gage is sometimes called a gap gage, wedge gage or gap feelers it is accurately tapered throughout its entire length for quick measuring.

Unit: mm

Model No.	Measuring range mm	Resolution mm	Accuracy mm
WG-17-1	0.4-6	0.05	±0.05
WG-17-2	1-15	0.10	±0.10
WG-17-3	0.3-4.00	0.05	±0.05
WG-17-4	0.010-0.15"	0.001"	--



Model No: WG-17-1 WG-17-2



Model No: WG-17-3 WG-17-4

ROUND TAPER GAUGE WG-18

FEATURES:

- For accurate readings in holes and slots

Model No	Range mm	Reading mm
WG-18-1	1 ~ 6 mm	0.1mm
WG-18-2	4 ~15mm	0.1mm
WG-18-3	15 ~ 30 mm	0.1mm
WG-18-4	30 ~ 45 mm	0.1mm
WG-18-5	45 ~ 60 mm	0.1mm

Unit: mm

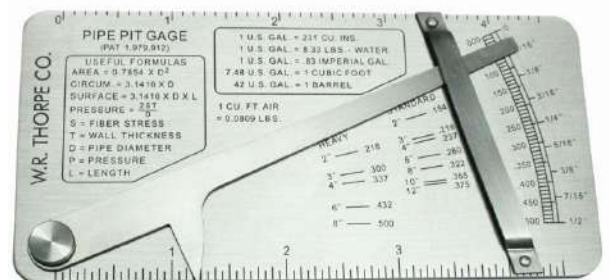


Model No: WG-18

PIPE PIT GAGE WG-19

FEATURES:

- Range is 0 to ½" in 1/64 & 0.020 increments
- Arm can be locked in place at any dimension
- All stainless steel, Available in Inch or Metric
- Gage will fit in shirt pocket & comes in a pocket protector
- Has handy formulas on front and decimal equivalents on back

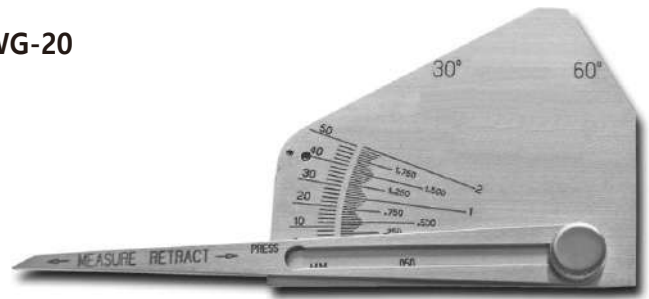


Model No : WG-19

SKEW-T FILLET WELD GAUGE/ CALCULATOR WG-20

FEATURES:

- Check Angle of Vertical Member
- Checks Weld Acute Side
- Checks Weld Obtuse Side
- Measures in English & Metric

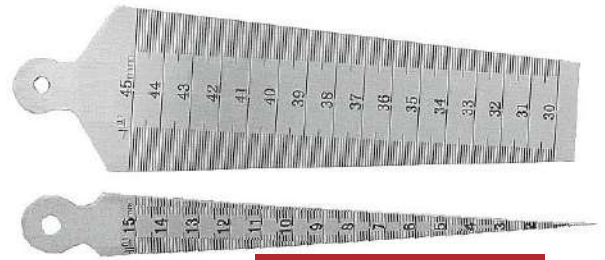


Model No : WG-20

TAPER GAGE WG-21

FEATURES:

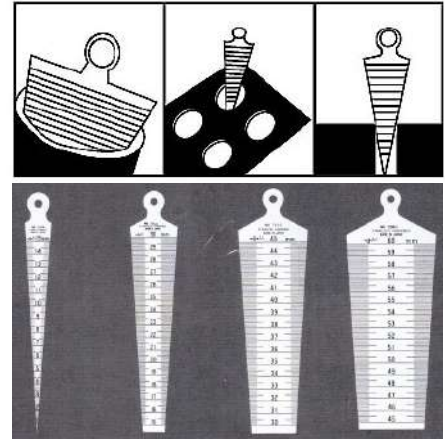
- 1 to 15 mm Metric Taper Gauge for measuring ID of tubing, slot widths, hole sizes, bore and flange face to face dimensions. Stainless steel 0.1 graduations are accurate within 0.05mm
- 1/32 to 5/8 Taper Gauge
- 5/8 to 1 & 3/16 Taper Gauge
- 1 & 3/16 to 2" Taper Gauge
- Stainless Steel
- All increments permanently engraved
- Front side - Standard
- Back side - Metric



Model No : WG-21

Unit: mm

Model No.	Measuring range mm	Resolution mm	Accuracy mm
WG-21-1	1-15mm	0.10 mm	±0.05
WG-21-2	15-30mm	0.10 mm	±0.05
WG-21-3	30-45mm	0.10 mm	±0.05
WG-21-4	45-60mm	0.10 mm	±0.05



POCKET FILLET WELD GAGE WG-23

FEATURES:

- Pocket Size - Measures 8 Size Fillets
- Checks Leg Length, Throat Size, Plus Allowable Convexity
- All Increments Permanently Engraved
- Available in Standard & Metric
- Each Welder Can Carry a Set for Pre-Inspection
- Handy Key Chain Holds Set Together
- 2pcs pipe pit welding gauge



Model No : WG-23

POCKET FILLET WELD GAGE WG-24

FEATURES:

- Range is 0 to 1/2" in 1/64 & 0.020 increments
- Arm can be locked in place at any dimension
- All Stainless Steel
- Gage will fit in shirt pocket & comes in a pocket protector
- Has handy formulas on front & decimal equivalents on back
- 4pcs pipe pit welding gauge



Model No : WG-24

W.T.P.S. GAGE WITH CALIBRATION BLOCK J : ȳȳ

FEATURES:

- Made from stainless steel all marking and dimensions are chemically etched for ease and clarity when reading"
- Gauge set comes with a precision ground calibration block as shown below, each block has been surface ground to .0005 tolerance for exceptional accuracy



Model No : WG-25

WELDING SEAM GAGE WG-ȳȳ

FEATURES:

- Simple Design made of Aluminium, thickness 1mm
- For measuring of flat- and welding seams in corners
- Scale and operating instructions printed on either side

Measuring range for corner seams mm	2-15mm
Measuring range for flat seams mm	0-5mm
Total length mm	62.5mm



Model No : WG-26

A7HFG45ȳ8ȳȳȳ8ȳJ 8ȳ7 : 4: 8ȳJ : ȳȳȳ

FEATURES:

- Unequal Leg Measurement Feature
- Measure Fillet Weld & Weld Throat Thickness
- Available in Standard or Metric



Model No : WG-27

PIT GAGE WG-28

FEATURES:

- Undercuts/Pits to 0-2mm by 0.2mm Increments.
- Check Undercuts/Pits, All Stainless Steel



Model No : WG-28

POCKET BRIDGE CAM GAGE WG-29

FEATURES:

- Check Angle of Preparation, Excess Weld Metal, Depth of Undercut, Depth of Pitting, and more

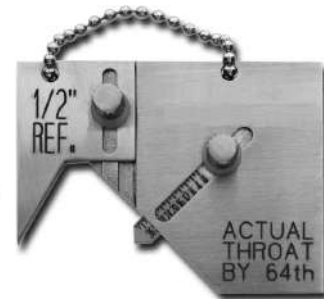


Model No : WG-29

SOCKET WELD GAGE WG-30

FEATURES:

- Check Throat Dimensions
- Check Leg Length
- Checks All Pipe Schedule
- All Stainless Steel



Model No : WG-30

FILLET WELDING GAUGE

FEATURES:

- Measure convex weld sizes
- 3 blades are included
- Made of stainless steel

Model No : WG-34



unit:mm

Model No.	Measurement	Range	Graduation	Accuracy
WG-34	Convex weld size	4,6,8,10,12,14mm	--	±0.5mm
	length	0-50mm	1mm	±0.5mm

8-PIECE FILLET WELD SET WG-31

FEATURES:

- Check Fillet Leg & Throat Size 1 1/8" to 2" in 1/8" increments
- Checking Fillet Leg Size
- Checking Fillet Throat Size
- Stainless Steel



Model No : WG-31

WELD FEET GAGE WG-32

FEATURES:

- Multifunctional Welding Feet



Model No : WG-32

MINI FILLET WELD KEYS WG-33

FEATURES:

- 11 Different Sizes in Standard with Metric
- Equivalent Markings - 1/8" to 1"



Model No : WG-33

WELDING GAGE KIT WG-K1(16pcs)

FEATURES:

- Made of Stainless Steel
- Includes 16 pcs Gauges



Model No : WG-K1

Unit: mm

Item	Description
1.	Automatic Weld Size Gauge WG-3
2.	Bridge Cam Gauge WG-12
3.	Economy Single Purpose Weld Gauge WG-5
4.	Hi-Lo Welding Gauge WG-4
5.	Skew-T Fillet Weld Gauge WG-20
6.	V-WAC Single Weld Gauge WG-13
7.	7-Piece Fillet Weld Gauge Set (inch) WG-10B
8.	7-Piece Fillet Weld Gauge Set (metric)WG-10
9.	Welding Gauge WG-6A
10.	Welding Gauge WG-8A
11.	Welding Gauge WG-9
12.	Fan-shaped Gauge
13.	Taper Gauge (1-15mm)
14.	Taper Gauge (15-30mm)
15.	Taper Gauge (30-45mm)
16.	Pipe Pit Gauge

WELDING GAGE KIT WG-K2(13pcs)

FEATURES:

- Total 13 pcs
- Includes Gauaes, Rules, Inspection Mirror, Micrometer



Model No : WG-K2

Unit: mm

Item	Description
1.	Automatic Weld Size Gauge
2.	Bridge Cam Gauge
3.	Economy Single Purpose Hi-Lo Welding Gauge
4.	HI-LO Welding Gauge
5.	Skew-T Fillet Weld Gauge
6.	V-WAC Single Weld Gauge
7.	7-Piece Fillet Weld Gauge Set (metric)
8.	W.T.PS Gauge
9.	Adjustable Fillet Weld Gauge
10.	Ruler 150mm
11.	Inspection Mirror
12.	Micrometer
13.	Magnifier

WELDING GAGE KIT WG-K3(13pcs)

FEATURES:

- Total 13pcs
- Includes Gauges, Ruler, Inspection Mirror, Micrometer



Model No : WG-K3

Unit: mm

Item	Description
1	Welding Seam Gauge
2	Automatic Weld Size Gauge
3	Bridge Cam Gauge
4	Economy Single Purpose Hi-Lo Welding Gauge
5	HI-LO Welding Gauge
6	Skew-T Fillet Weld Gauge
7	V-WAC Single Weld Gauge
8	7-Piece Fillet Weld Gauge Set (metric)
9	Welding Gauge
10	W.T.P.S Gauge
11	Ruler 150mm
12	Inspection Mirror
13	Micrometer

J 8?7 A: : 4: 8'>G WG-K5f(cVffl

FEATURES:

- Total 5pcs
- Includes Gauges, Portable Ruler, Flashlight, Inspection Mirror



Model No : WG-K5

Unit: mm

Item	Description
1	Economy Single Purpose Hi-Lo Welding Gauge
2	V-WAC Single Weld Gauge
3	Portable Ruler 150mm (6")
4	Flashlight
5	Inspection Mirror

J 8?7 A: : 4: 8'>G WG-K4ff cVffl

FEATURES:

- Total +pcs
- Includes Gauges, Portable Ruler, Flashlight, Inspection Mirror



Model No : WG-K4

Unit: mm

Item	Description
1	Automatic Weld Size Gauge
2	V-WAC Single Weld Gauge
3	7-Piece Fillet Weld Gauge Set (metric)
4	Portable Ruler 150mm (6")
5	Dial Caliper 150mm
6	Micrometer
7	Magnifier

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FEATURES:

- Total 7 pcs
- Includes Gauges, Ruler, Micrometer, Magnifier, Inspection Mirror



Model No : WG-K6

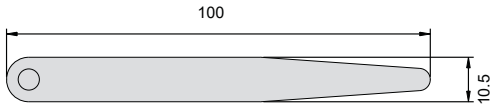
Unit: mm

Item	Description
1	Automatic Weld Size Gauge
2	HI-LO Welding Gauge
3	V-WAC Single Weld Gauge
4	Ruler 150mm
5	Micrometer
6	Magnifier
7	Inspection Mirror

PRECISION FEELER GAUGE

FEATURES:

- DIN2275
- Made of special steel
- Length of blades 100 mm, Width 12.7 mm
- Frame nickel plated



Other sets are available on request!

Unit: mm

Model no.	Pcs./Set	Range mm	Size mm
PFG-040	8	0,03 - 0,1	0,03 / 0,04 / 0,05 / 0,06 / 0,07 / 0,08 / 0,09 / 0,10
PFG-041	8	0,05 - 0,5	0,05 / 0,10 / 0,15 / 0,20 / 0,25 / 0,30 / 0,40 / 0,50
PFG-042-1	10	0,03-0,50	0,03/0,04/0,05/0,10/0,15/0,20/0,25/0,30/0,40/0,50
PFG-042-2	10	0,10-1,00	0,10/0,20/0,30/0,40/0,50/0,60/0,70/0,80/0,90/1,00
PFG-043	13	0,05 - 1,0	0,05 / 0,10 / 0,15 / 0,20 / 0,25 / 0,30 / 0,40 / 0,50 / 0,60 / 0,70 / 0,80 / 0,90 / 1,00
PFG-045	20	0,10 - 2,0	0,10 / 0,20 / 0,30 / 0,40 / 0,50 / 0,60 / 0,70 / 0,80 / 0,90 / 1,00 / 1,10 / 1,20 / 1,30 / 1,40 / 1,50 / 1,60 / 1,70 / 1,80 / 1,90 / 2,00
PFG-046	21	0,10 - 0,5	0,10 / 0,12 / 0,14 / 0,16 / 0,18 / 0,20 / 0,22 / 0,24 / 0,26 / 0,28 / 0,30 / 0,32 / 0,34 / 0,36 / 0,38 / 0,40 / 0,42 / 0,44 / 0,46 / 0,48 / 0,50
PFG-047	32	0,03 - 1,0	0,03 / 0,04 / 0,05 / 0,06 / 0,07 / 0,08 / 0,09 / 0,10 / 0,13 / 0,15 / 0,18 / 0,20 / 0,23 / 0,25 / 0,28 / 0,30 / 0,33 / 0,35 / 0,38 / 0,40 / 0,45 / 0,50 / 0,55 / 0,60 / 0,63 / 0,65 / 0,70 / 0,75 / 0,80 / 0,85 / 0,90 / 1,00
PFG-048	21	0,05 - 2,0	0,05 / 0,10 / 0,20 / 0,30 / 0,40 / 0,50 / 0,60 / 0,70 / 0,80 / 0,90 / 1,00 / 1,10 / 1,20 / 1,30 / 1,40 / 1,50 / 1,60 / 1,70 / 1,80 / 1,90 / 2,00
PFG-049	20	0,05 - 1,0	0,05 / 0,10 / 0,15 / 0,20 / 0,25 / 0,30 / 0,35 / 0,40 / 0,45 / 0,50 / 0,55 / 0,60 / 0,65 / 0,70 / 0,75 / 0,80 / 0,85 / 0,90 / 0,95 / 1,00

FEELER GAGE SETS (inch and metric)

FEATURES:

- For standard purposes, like thickness measuring between narrow slots and for automotive and engine industry
- Hardened spring steel, conical shaped blades, 100 mm length
- Nickel plated case with lock nut, sizes in mm and inch on each blade



Other sets are available on request!



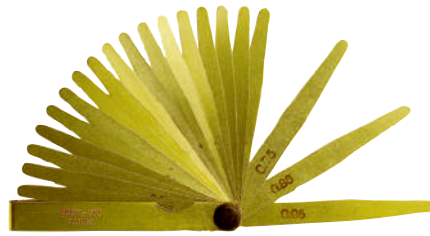
Unit: mm

PFG-13MI-1	13	0.05 - 1.00 .002 - .040	0.05/0.10/0.15/0.20/0.25/0.30/0.40/0.50/0.60/0.70/0.80/0.90/1.00mm .002/.004/.006/.008/.010/.012/.016/.020/.024/.028/.032/.036/.040 inch
PFG-13MI-2	13	0.03 - 0.30 .0012 - .0118	0.03-0.04-0.05-0.06-0.07-0.08-0.09-0.10-0.12-0.14-0.15-0.20-0.30mm 0.0012,0.0016,0.0020,0.0024,0.0028,0.0031,0.0035,0.0039,0.0047,0.0055,0.0059,0.0079 ,0.0118 inch
PFG-20MI	20	0.05 - 1.00 .002 - .040	0.05-0.10-0.15-0.20-0.25-0.30-0.35-0.40-0.45-0.50-0.55-0.60-0.65-0.70-0.75-0.80-0.85-0.90-0.95-1.00mm .002-.004-.006-.008-.010-.012-.014-.016-.018-.020-.022-.024-.026-.028-.030-.032-.034-.036-.038-.040 inch
PFG-26MI	26	0.03 - 1.00	0.03-0.04-0.05-0.06-0.07-0.08-0.09-0.10-0.15-0.20-0.25-0.30-0.35-0.40-0.45-0.50-0.55-0.60-0.65-0.70-0.75-0.80-0.85-0.90-0.95-1.00 mm
PFG-32MI	32	0.03 - 1.00 .0012 - .040	0.03-0.04-0.05-0.06-0.07-0.075-0.08-0.09-0.10-0.12-0.15-0.18-0.20-0.22-0.25-0.28-0.30-0.32-0.35-0.40-0.45-0.50-0.55-0.60-0.65-0.70-0.75-0.80-0.85-0.90-0.95-1.00 mm

PRECISION BRASS FEELER GAUGES

FEATURES:

- Antimagnetic
- Length of blades 100 mm
- Cylindrical, width 12.7 mm
- Brass



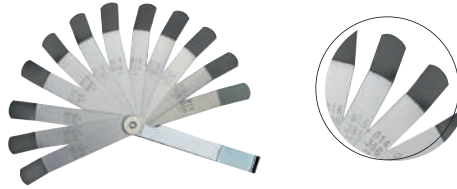
Unit: mm

Model No.	Pcs./Set	Range mm/in	Frame	Size mm
PFG-012	13	0,05 - 1,0	Brass	0,05/0,10/0,15/0,20/0,25/0,30/0,40/0,50/ 0,60/0,70/0,80/0,90/1,00
PFG-013	20	0,05 - 1,0	Brass	0,05/0,10/0,15/0,20/0,25/0,30/0,35/0,40/0,45/0,50/ 0,55/0,60/0,65/0,70/0,75/0,80/0,85/0,90/0,95/1,00

FEELER GAGES MM INCH FOR MOTOR REPAIRS, 0,203 - 0,660 MM / 0.008" - 0.026"

FEATURES:

- Cranked form, angle 30°
- Length of blades 100 mm
- Cylindrical, width 12.7 mm
- Frame nickel plated



Unit: mm

Model No.	Pcs./Set	Range mm/in	Size mm
PFG-014	12	0,203 - 0,660 0.008" - 0.025"	0,203 / 0,254 / 0,305 / 0,356 / 0,381 / 0,406 / 0,457 / 0,483 / 0,508 / 0,635 / 0,660 0.008" / 0.010" / 0.012" / 0.013" / 0.014" / 0.015" / 0.016" / 0.018" / 0.019" / 0.020" / 0.025" / 0.026"

PRECISION FEELER GAUGES, WITH HANGING RING

FEATURES:

- Blades cylindrical
- Width 12.7 mm
- With hanging ring



unit:mm

Model no.	Length mm	Pcs./Set	Range mm	Size mm
PFG-015	150	8	0,05 - 0,5	0,05 / 0,10 / 0,15 / 0,20 / 0,25 / 0,30 / 0,40 / 0,50
PFG-016	200			
PFG-017	300			
PFG-018	500			
PFG-019	1000			
PFG-020	1500			
PFG-021	2000			
PFG-022	150	13	0,05 - 1,0	0,05 / 0,10 / 0,15 / 0,20 / 0,25 / 0,30 / 0,40 / 0,50 0,60 / 0,70 / 0,80 / 0,90 / 1,00
PFG-023	200			
PFG-024	300			
PFG-025	500			
PFG-026	1000			
PFG-027	1500			
PFG-028	2000			
PFG-029	150	20	0,05 - 1,0	0,05 / 0,10 / 0,15 / 0,20 / 0,25 / 0,30 / 0,35 / 0,40 / 0,45 / 0,50 / 0,55 / 0,60 / 0,65 / 0,70 / 0,75 / 0,80 / 0,85 / 0,90 / 0,95 / 1,00
PFG-030	200			
PFG-031	300			
PFG-032	500			
PFG-033	1000			
PFG-034	1500			
PFG-035	2000			
PFG-036	150	20	0,10 - 2,0	0,10 / 0,20 / 0,30 / 0,40 / 0,50 / 0,60 / 0,70 / 0,80 / 0,90 / 1,00 / 1,10 / 1,20 / 1,30 / 1,40 / 1,50 / 1,60 / 1,70 / 1,80 / 1,90 / 2,00
PFG-037	200			
PFG-038	300			
PFG-038	300			

THICKNESS GAUGE LEAF

FEATURES:

- Carbon tool steel
- Leaf Width : 12.7mm
- Leaf length 100mm and 150mm



P100-05



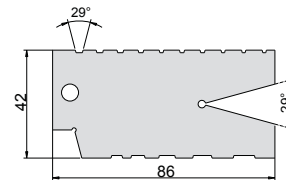
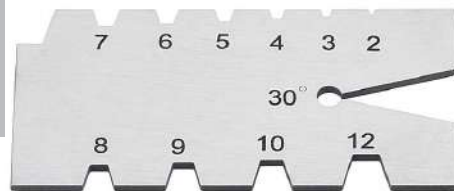
P150-10

Model No.	Thickness mm	Model No.	Thickness mm	unit:mm
Leaf Length : 100mm		Leaf Length : 150mm		
P100-001	0.01	P150-001	0.01	
P100-002	0.02	P150-002	0.02	
P100-003	0.03	P150-003	0.03	
P100-004	0.04	P150-004	0.04	
P100-005	0.05	P150-005	0.05	
P100-006	0.06	P150-006	0.06	
P100-007	0.07	P150-007	0.07	
P100-008	0.08	P150-008	0.08	
P100-009	0.09	P150-009	0.09	
P100-01	0.10	P150-01	0.10	
P100-02	0.20	P150-02	0.20	
P100-03	0.30	P150-03	0.30	
P100-04	0.40	P150-04	0.40	
P100-05	0.50	P150-05	0.50	
P100-06	0.60	P150-06	0.60	
P100-07	0.70	P150-07	0.70	
P100-08	0.80	P150-08	0.80	
P100-09	0.90	P150-09	0.90	
P100-1	1.00	P150-10	1.00	

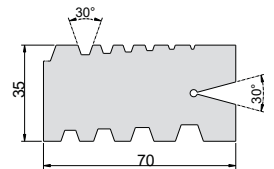
THREAD CUTTER GAUGE

FEATURES:

- To check and set screw cutting tools
- Angle accuracy: $\pm 10\text{min}$.



PTG-003



PTG-002

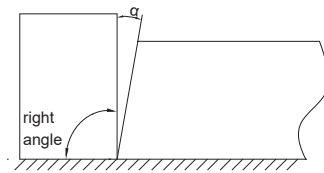
unit: mm

Model No.	Range	Thread type	Pitch
PTG-003	1 - 10TPI	ACME 29°	1, 1-1/3, 1-1/2, 1-3/4, 2, 2-1/2, 3, 4, 5, 6, 7, 8, 9, 10TPI
PTG-002	2 - 12mm	Tr30°	2, 3, 4, 5, 6, 7, 8, 9, 10, 12mm

ANGLE GAUGE

FEATURES:

- Check the coangle
- Accuracy: $\pm 30'$



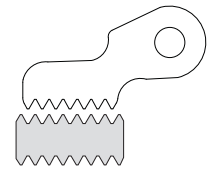
unit: mm

Model No.	Range	Quantity of Leaves	Angle of leaves
PAG-006	1° - 45°	20	1°, 2°, 3°, 4°, 5°, 6°, 7°, 8°, 9°, 10°, 12°, 14°, 16°, 18°, 20°, 25°, 30°, 35°, 40°, 45°

SCREW PITCH GAUGE

FEATURES:

- Made of carbon steel
- Measure the pitch of thread



unit:mm

METRIC 60° SCREW

Model No.	Range mm	Quantity	Leaves pitch
PSG-M005	0.4-7.0mm	22	0.4, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm
PSG-M002	0.25-7.0mm	24	0.25, 0.3, 0.35, 0.4, 0.5, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm
PSG-M001	0.25-6.0mm	24	0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6mm
PSG-M003	0.25-2.5mm	28	0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.55, 0.6, 0.65, 0.7, 0.75, 0.8, 0.85, 0.9, 1.0, 1.1, 1.2, 1.25, 1.3, 1.4, 1.5, 1.6, 1.7, 1.75, 1.8, 1.9, 2.0, 2.5mm
UNIFIED 60° SCREW			
PSG-I003	4-42TPI	30	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42TPI
WHITWORTH 55° SCREW			
PSG-I010	4-42TPI	30	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42TPI
PSG-I001	4-62TPI	28	4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40, 48, 60, 62TPI

METRIC 60° AND WHITWORTH 55° SCREW

Model No.	Range mm	Quantity	Leaves pitch
PSG-IM100	0.25-6.0mm 4-62TPI	52	0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6mm 4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40, 48, 60, 62TPI
PSG-IM300	0.4-7.0mm 4-62TPI	50	0.4, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm 4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40, 48, 60, 62TPI

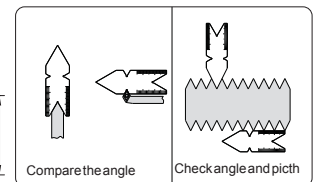
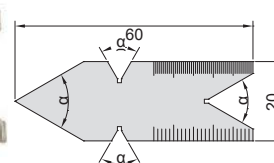
METRIC 60° AND UNIFIED 60° SCREW

Model No.	Range	Pitch of leaves included	Quantity
PSG-IM400	0.4-7.0mm	0.4, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm	52
	4-42TPI	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42TPI	

CENTER GAGE

FEATURES:

- Check the screw angle and pitch
- Accuracy: $\pm 30'$



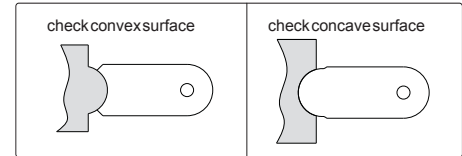
Model No.	Screw type	Angle(α)	Graduation
PAG-001	metric 60°	60°	0.5mm and 1mm
PAG-003	unified 60°	60°	front side: 1/14" and 1/20", reverse side: 1/24" and 1/32"
PAG-002	whitworth 55°	55°	front side: 1/14" and 1/20", reverse side: 1/24" and 1/32"

unit: mm

RADIUS GAUGE

FEATURES:

- Check the radius
- With concave and convex surface in each size



unit:mm

Model No.	Range	Quantity of leaves	Leaves radius (mm)
PRG-001	1 - 7mm	17+17	1, 1.25, 1.5, 1.75, 2, 2.25, 2.5, 2.75, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7
PRG-002	7.5 - 15mm	16+16	7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5, 13, 13.5, 14, 14.5, 15
PRG-003	15.5 - 25mm	15+15	15.5, 16, 16.5, 17, 17.5, 18, 18.5, 19, 19.5, 20, 21, 22, 23, 24, 25

ANGLE GAUGE SET

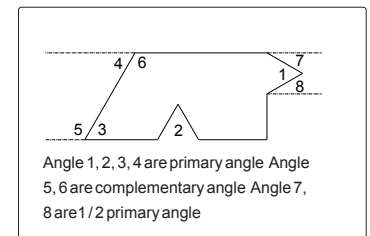
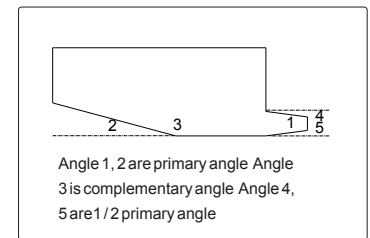
FEATURES:

- Each blade checks primary, 1/2 primary and complementary angles

unit:mm

Model No.	Quantity of leaves	Accuracy
PAG-005	18	±10'

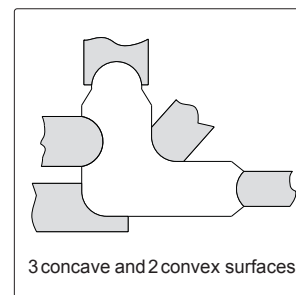
Primary angle	½ primary angle	Complementary angle
5°	2°30'	175°
10°	5°	170°
15°	7°30'	165°
20°	10°	160°
25°	12°30'	155°
30°	15°	150°
35°	17°30'	145°
40°	20°	140°
45°	22°30'	135°
50°	25°	130°
55°	27°30'	125°
60°	30°	120°
65°	32°30'	115°
70°	35°	110°
75°	37°30'	105°
80°	40°	100°
85°	42°30'	95°
90°	45°	90°



RADIUS GAUGE SET

FEATURES:

- Each piece has 3 concave and 2 convex gauging surfaces
- Supplied with handle
- Made of carbon steel



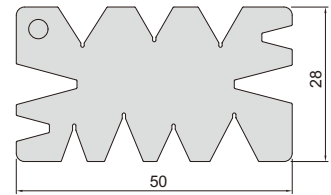
unit:mm

Model No.	Range	Quantity	Included radius(mm)
PRG-100S	0.5 - 13mm	26	0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5, 13

ANGLE GAUGE

FEATURES:

- Nickel-plated thread Cutting angle gauge Measuring tool
- Material: carbon steel



Model No.	Range
PAG-016	29°, 30°, 40°, 45°, 50°, 55°, 60°

Unit: mm

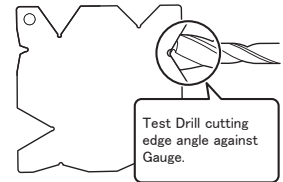
DRILL TIP GAUGE

FEATURES:

- Use for measuring drill-tip after grinding (60° 70° 90° 118° 125° 135° 150° 160°)
- Stainless steel
- 8 types of edge angle gauges are useful when grinding
- 2mm scale to measure length of drill tip

Unit: mm

Model No.	Product Dimension W×H×D (mm)	Accuracy	Weight
PTD-002	77×77×1	±1.5°	11g



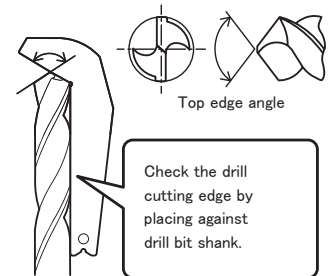
DRILL TIP GAUGE

FEATURES:

- Use for measuring drill-tip after grinding (118°)
- Stainless steel
- Confirms drill tip edge angle after grinding

Unit: mm

Model No.	Product Dimension L×D (mm)	Accuracy	Weight
PTD-001	90×0.5	±1.5°	10g



WET FILM GAUGE

FEATURES:

- Accurate and made of stainless steel make this comb a long-lasting and reusable measuring instrument.

unit:mm

Model No.	Range	Accuracy	Thickness
KT 272-3	25-3000µm	25µm-100µm:±5µm 100µm-3000µm:±5%	1mm

Model No.	Range	Accuracy	Thickness
KT-271B	25-2032µm	25µm-100µm:±5µm 100µm-3000µm:±5%	1mm



U.S. STANDARD SHEET METAL GAUGE

FEATURES:

- For gaging sheet metal, plate iron and steel
- Hardened and satin chrome finish

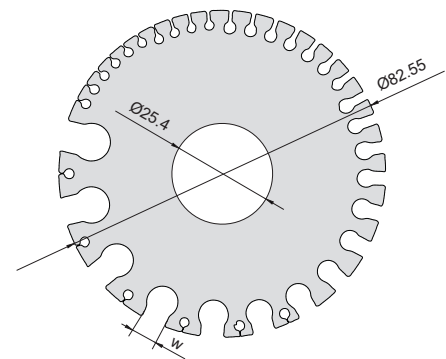
unit:mm

Model No.	Range
PWG-001	0-36(7.938-0.179mm/.3125-.0070")

NO	W	NO	W
0	7.938mm(.3125")	19	1.111mm(.0438")
1	7.144mm(.2813")	20	0.953mm(.0375")
2	6.747mm(.2656")	21	0.873mm(.0344")
3	6.350mm(.2500")	22	0.794mm(.0313")
4	5.953mm(.2344")	23	0.714mm(.0281")
5	5.556mm(.2188")	24	0.635mm(.0250")
6	5.159mm(.2031")	25	0.556mm(.0219")
7	4.763mm(.1875")	26	0.476mm(.0188")
8	4.366mm(.1719")	27	0.437mm(.0172")
9	3.969mm(.1563")	28	0.397mm(.0156")
10	3.572mm(.1406")	29	0.357mm(.0141")
11	3.175mm(.1250")	30	0.318mm(.0125")
12	2.778mm(.1094")	31	0.278mm(.0109")
13	2.381mm(.0938")	32	0.258mm(.0102")
14	1.984mm(.0781")	33	0.238mm(.0094")
15	1.786mm(.0703")	34	0.218mm(.0086")
16	1.588mm(.0625")	35	0.198mm(.0078")
17	1.429mm(.0563")	36	0.179mm(.0070")
18	1.270mm(.0500")		



unit: mm



AMERICAN STANDARD WIRE GAUGE

FEATURES:

- For gaging non-ferrous wire and metals such as copper, brass and aluminum
- Hardened and satin chrome finish

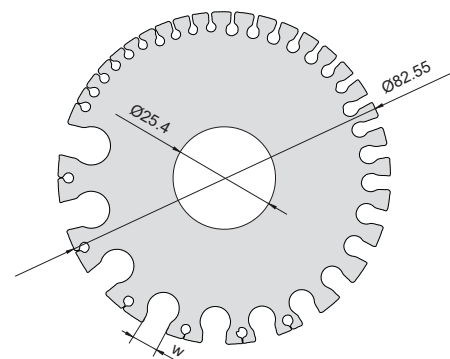
unit:mm

Model No.	Range
PWG-002	0-36(8.250-0.127mm/.3249-.0050")

NO	W	NO	W
0	8.250mm(.3249")	19	0.912mm(.0359")
1	7.350mm(.2893")	20	0.813mm(.0320")
2	6.540mm(.2576")	21	0.724mm(.0285")
3	5.830mm(.2294")	22	0.643mm(.0253")
4	5.190mm(.2043")	23	0.574mm(.0226")
5	4.620mm(.1819")	24	0.511mm(.0201")
6	4.110mm(.1620")	25	0.440mm(.0179")
7	3.670mm(.1443")	26	0.404mm(.0159")
8	3.260mm(.1285")	27	0.361mm(.0142")
9	2.910mm(.1144")	28	0.320mm(.0126")
10	2.590mm(.1019")	29	0.287mm(.0113")
11	2.300mm(.0907")	30	0.254mm(.0100")
12	2.050mm(.0808")	31	0.226mm(.0089")
13	1.820mm(.0720")	32	0.203mm(.0080")
14	1.630mm(.0641")	33	0.180mm(.0071")
15	1.450mm(.0571")	34	0.160mm(.0063")
16	1.290mm(.0508")	35	0.142mm(.0056")
17	1.150mm(.0453")	36	0.127mm(.0050")
18	1.020mm(.0403")		



unit: mm

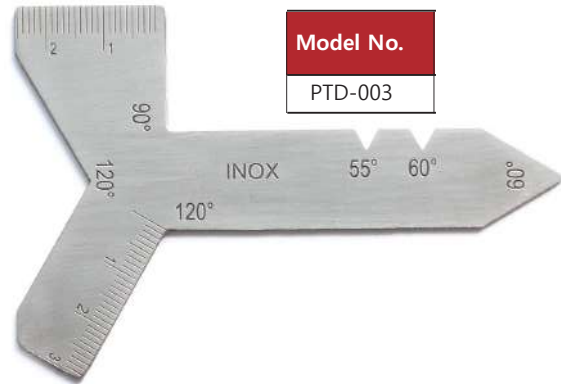


UNIVERSAL GRINDING GAUGE PTD-003

Universal grinding gauge is used to check the sharpened tools or drill bits to the perfect angle.

FEATURES:

- Length 95 mm
- Made of Polished Stainless Steel
- Clearly etched graduations
- Combines twist drill grinding gauges, thread gauge
- 90° square
- 120° drill grinding guide
- 55° and 60° threading tool guide



Model No.

PTD-003

TELESCOPE GAGE

FEATURES:

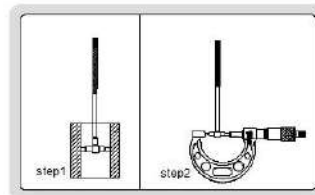
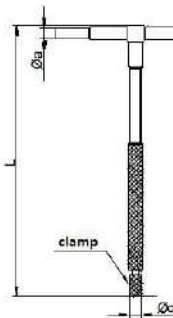
- Measures internal diameter or internal through-groove where otherwise only bore gauges or inside micrometer



Model No.	Measuring Range
P7082-007	8-150mm or 5/16" to 6" 6 pcs/set

Range	L	Øa	Øb	Øc
8-12.7mm 5/16"- 1/2"	115	3.9	2.9	6.2
12.7-19mm 1/2"- 3/4"	115	5.3	3.8	6.2
19-32mm 3/4"- 1 1/4"	115	5.3	3.8	6.2
32-54mm 1 1/4"- 2 1/8"	137	7.6	6.1	7.2
54-90mm 2 1/8"- 3 1/2"	137	7.6	6.1	7.2
90-150mm 3 1/2"- 6"	137	7.6	6.1	7.2

Unit: mm



F@4??; B?8: 4: 8

- ...
- ...
- ...

FEATURES:

- ...
- ...
- ...
- ...

Unit: mm

Model No.	Measuring Range
P7080-005	3-5mm, 5-7.5mm, 7.5-10mm, 10-13mm
P7081-005	3-5mm, 5-7.5mm, 7.5-10mm, 10-13mm

P7080-005



P7081-005



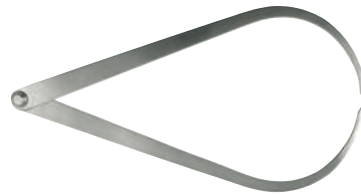
INSIDE CALIPER, OUTSIDE CALIPER, DIVIDER



P7069-150

INSIDE CALIPER

Polished steel, hardend points.



P7070-150

OUTSIDE CALIPER

Polished tool steel. Large headed nut & screw assembly provides a firm and rigid friction joint.



P7072-150

DIVIDER

Steel, hardend points.



P7073-150

WING DIVIDER

Hardened point, forged steel with edged legs and setting wing



P7074-150

WING DIVIDER

Hardened point, forged steel with edged legs and setting wing, with pencil holder



P7075-150

SPRING DIVIDER

Inside caliper with quick adjustment nut. Polished steel, hardend points.

unit:mm

Model No.	Length(mm)
P7069-125	125
P7069-150	150
P7069-175	175
P7069-200	200
P7069-250	250
P7069-300	300
P7069-400	400
P7069-500	500
P7069-600	600
P7069-800	800
P7069-1000	1000

Model No.	Length(mm)
P7070-125	125
P7070-150	150
P7070-175	175
P7070-200	200
P7070-250	250
P7070-300	300
P7070-400	400
P7070-500	500
P7070-600	600
P7070-800	800
P7070-1000	1000

Model No.	Length(mm)
P7072-125	125
P7072-150	150
P7072-175	175
P7072-200	200
P7072-250	250
P7072-300	300
P7072-400	400
P7072-500	500
P7072-600	600
P7072-800	800
P7072-1000	1000

unit:mm

Model No.	Length(mm)
P7073-125	125
P7073-150	150
P7073-175	175
P7073-200	200
P7073-250	250
P7073-300	300
P7073-400	400
P7073-500	500
P7073-600	600
P7073-800	800
P7073-1000	1000

Model No.	Length(mm)
P7074-125	125
P7074-150	150
P7074-175	175
P7074-200	200
P7074-250	250
P7074-300	300
P7074-400	400
P7074-500	500
P7074-600	600
P7074-800	800
P7074-1000	1000

Model No.	Length(mm)
P7075-100	100
P7075-125	125
P7075-150	150
P7075-175	175
P7075-200	200
P7075-250	250
P7075-300	300
P7075-400	400
P7075-500	500
P7075-600	600

IAF 7 8 64? C8E, OUTSIDE CALIPER, DIVIDER



P7071-150

SPRING INSIDE CALIPER

With quick adjustment.



P7076-150

SPRING DIVIDER

With quick adjustment.



P7077-150

FCE-A: BHGF 7 8 64? C8E

With quick adjustment.

unit:mm

Model No.	Length(mm)
P7071-125	125
P7071-150	150
P7071-175	175
P7071-200	200
P7071-250	250
P7071-300	300
P7071-400	400
P7071-500	500
P7071-600	600
P7071-800	800
P7071-1000	1000

Model No.	@yb[h f a a t
P7076-100	100
P7076-125	125
P7076-150	150
P7076-175	175
P7076-200	200
P7076-250	250
P7076-300	300
P7076-400	400
P7076-500	500
P7076-600	600

Model No.	@yb[h f a a t
P7077-125	125mm
P7077-150	150mm
P7077-175	175mm
P7077-200	200mm
P7077-250	250mm
P7077-300	300mm
P7077-400	400mm
P7077-500	500mm
P7077-600	600mm
P7077-800	800mm
P7077-1000	1000mm

ENGINEER'S SCRIBER

Model No : P7066-001

FEATURES:

- Straight, with knurled handle
- Interchangeable- 175mm length



ENGINEER'S SCRIBER

Model No : P7066-003

FEATURES :

- Double ended, with knurled black handle
- Interchangeable- 250mm length



CARBIDE-TIPPED SCRIBER

Model No : P7066-004

FEATURES:

- Metal body, with clip, carbide points, length 150 mm, carbide point



ENGINEER'S SCRIBER

Model No : P7066-008

FEATURES:

- With clip, nickel plated 150mm length



PRECISION ANGLE BLOCKS-12PCS

FEATURES:

- Works standard
- accuracy 0.01mm per 100mm ($\pm 0.0167'' = 1'$)
- Smallest step 15' (1/4°)
- Width 6.35mm; length 76mm

unit:mm

Model No	Angle Specification	Accuracy
PT02-12	1/4°, 1/2°, 1°, 2°, 3°, 4°, 5°, 10°, 15°, 20° 25°, 30°	±30"



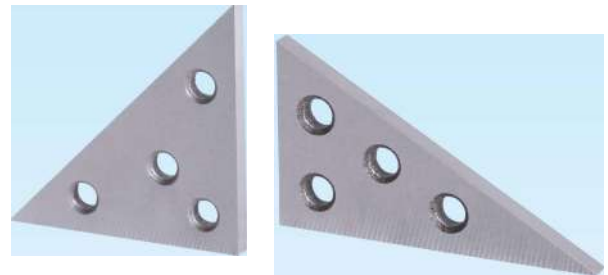
PRECISION ANGLE BLOCKS-2PCS

FEATURES:

- Works standard
- Four holes for easy mounting
- Hardness HRC52-55

unit:mm

Model No	Angle Specification	Accuracy
PT02-2	45°, 45°, 90° 30°, 60°, 90°	±10'



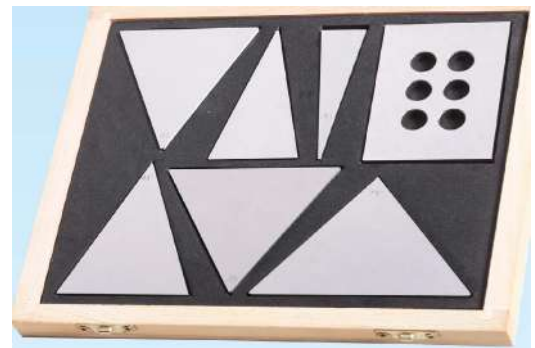
PRECISION ANGLE BLOCKS-7PCS

FEATURES:

- Works standard
- For precision ground angle
- Hardness HRC52-55

unit:mm

Model No	Angle Specification	Accuracy
PT02-3	15°, 30°, 45°, 50°, 60°, 75°, 90°	±1'



PRECISION ANGLE BLOCKS-9PCS

FEATURES:

- Works standard
- For precision ground angle
- Hardness HRC45-52

unit:mm

Model No	Angle Specification	Accuracy
PT02-9	1/2°, 1°, 2°, 3°, 4°, 5°, 10°, 15°, 30°	±1'



PRECISION ANGLE BLOCKS-17PCS

FEATURES:

- Works standard
- For precision ground angle
- Hardness HRC52-58

unit:mm

Model No	Angle Specification	Accuracy
PT02-17	0,1/4, 1/2, 1, 2, 3, 4, 5, 10, 15, 20, 25, 30, 35, 40, 45,0	±20"





MAGNETIC STAND
MAGNETIC V-BLOCK
MAGNETIC BLOCK
UNIVERSAL DIAL GAGE STAND
HEAVY DUTY BENCH CENTER
CONCENTRICITY GAGE
PRECISION TOOL VISE
PARALLEL SET
STEEL PARALLEL SINGLE
EDGE FINDER
SURFACE ROUGHNESS GAGE SET
GRANITE SURFACE PLATE
GRANITE SURFACE PLATE STAND
GRANITE V-BLOCK
GRANITE PARALLEL
GRANITE SQUARE
GRANITE STRAIGHT EDGE
GRANITE RECTANGULAR SQUARE
CALIBRATION CUBE
GRANITE COMPARATOR STAND
DIAL GAGE COMPARATOR STAND
CAST IRON SURFACE PLATE
CYLINDRICAL SQUARE
MAGNESIUM STRAIGHT EDGE
ADJUSTABLE ANGLE V BLOCK
SINE BAR
STEEL V-BLOCKS



MAGNETIC STAND

FEATURES:

- With powerful ON/OFF magnetic base
- Accepts dial test indicators, digital indicators and normal indicators
- The inside of clamp hole has one circle which outer diameter is $\text{\O}3/8"$, inner diameter is $\text{\O}8.0$.
- Steel clamp head, hardened plastic handles and chrome stabilizing rod. Simple structure, easy to operate.



Model No.	Base (L x W x H)	Magnetic Power	Main rod (mm)		Vice rod (mm)		Weight (kg)
			Length	Dia.	Length	Dia.	
PS-80A	60x50x55mm	80kg	176	12	165	10	1.5
PS-80B	60x50x55mm	80kg	176	12	150	10	1.5
PS-100A	73x50x55mm	100kg	255	16	165	14	2.3
PS-100B	73x50x55mm	100kg	178	20	165/130	14/12	2.6
PS-130B	117x50x55mm	130kg	355	20	210	14	3.7

*Mounting hole dia.: $\text{\O}6.5$ & $\text{\O}8.0$ mm.
(Except PS-80A, other types with strong fine-adjustment device)

MECHANICAL UNIVERSAL MAGNETIC STAND

FEATURES:

- All arms is steel
- With powerful ON/OFF magnetic base
- Universal swivel clamp for all dial and test indicator

Model No.	Holding power	Base size mm	Length	Clamp hole dia.	Weight
PS-A1	50kgf	40X40X40	187mm	Ø6.0/8.0	0.8KG
PS-A2	80kgf	60X50X55	255mm	Ø6.0/8.0	1.4KG
PS-A3	80kgf	60X50X55	350mm	Ø6.0/8.0	1.8KG
PS-A4	100kgf	73X50X55	462mm	Ø6.0/8.0	2.1KG

unit:mm



UNIVERSAL ARM MAGNETIC STAND

FEATURES:

- Powerful ON-OFF magnetic base.
- Central locking mechanism with designed spring
- Black finished arms
- Universal swivel clamp for all gauges and test indicators
- Holds Ø8mm and Ø6mm dovetails and backlug
- Instant fixation in any position

Model No.	POWER ARM	ARM LENGTH	Base dimension			WEIGHT kg
			L	W	H	
PS-B1	30kg	158mm	56mm	51mm	17mm	0.4 kg
PS-B2	30kg	205mm	56mm	51mm	73mm	0.4kg
PS-B3	80kg	310mm	110mm	101mm	73mm	1.4kg
PS-B4	100kg	385mm	147mm	130mm	76mm	1.8kg
PS-B5	130kg	635mm	285mm	225mm	76mm	5.0kg

unit:mm



HYDRAULIC UNIVERSAL MAGNETIC STAND

- With hydraulic central lock for all arms and srivel positions Super solid mold
- With fine adjustment
- With powerful ON/OFF magnetic base
- All arms steel
- Accepts dial test indicators, digital indicators and normal indicators
- Dovetail groove for clamping a dial test indicator

Model No.	Holding power	Base size mm	Length	Clamp hole dia.	Weight
PS-C1	80kgf	60X50X55	325mm	Ø8.0	1.6KG
PS-C2	80kgf	60X50X55	385mm	Ø8.0	1.8KG

unit:mm



MINI UNIVERSAL MAGNETIC STAND

Model No.	Holding power	Base Dimension mm	Stem mm	Clamp hole dia.	Weight
PS-F1	10kg	Ø30x25mm	65mm	6.0/8.0	200g
PS-F2	30kg	35X30X35mm	53mm	6.0	280g
PS-F3	10kg	Ø28x30mm	75mm	6.0	200g

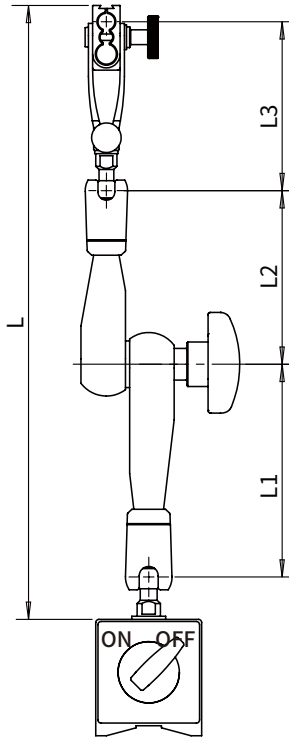
unit:mm



CLAMPING UNIVERSAL MAGNETIC STAND

FEATURES:

- With central clamping
- Fine adjustment
- For dial with 8 mm shank housing with dovetail guide
- With on/off switch and prismatic base



PS-D1S
PS-D2S
PS-D3S



unit:mm

Model No.	Total height mm	L1 mm	L2 mm	L3 mm	Base (LxBxH) mm	Magnet force kg
PS-D1	333	115	90	65	61 x 50 x 55, M8	80
PS-D1S	278	115	90	65	single column	
PS-D2	383	165	90	65	61 x 50 x 55, M8	100
PS-D2S	328	165	90	65	single column	
PS-D3	423	165	130	65	74 x 50 x 55, M8	100
PS-D3S	368	165	130	65	single column	

FLEXIBE STEM MAGNETIC STAND

FEATURES:

- SIMPLE-FLEX type
- Stem flexes almost 360 degrees
- With powerful ON/OFF magnetic base
- Locks into exact position with a can lever-operated cable and tension adjustment
- Accepts dial test indicators, digital indicators and normal indicators

unit:mm

Model No.	Holding power	Base size mm	Length	Clamp hole dia.	Weight
PS-E1	80kgf	60X50X55	360mm	Ø6.0/8.0	1.4KG
PS-E2	80kgf	60X50X55	340mm	Ø3.0~13.0	1.4KG



REPLACEMENT PARTS FOR MEASURING STAND

Model No.	Description
2	Cross head complete
5	Fine adjustment complete
6	Transverse arm complete with fine adjustment
7	Post with transverse arm complete
11	Post
12	Transverse arm
19	Clamping nut



MAGNETIC V-BLOCK

FEATURES:

- Two blocks are especially for long workpieces use, can be used for attracting magnetism on striped or round workpieces
- Suitable for holding round steel for precision work in measuring, making and grinding.
- Two pieces finished to the same dimension are furnished together to a set
- Finished in both standard and special class precision.
- ON/OFF which makes it easy to operate and remove the block easily.

unit:mm

Model No.	Dimension L×W×H			Holding Power	Weight
PMV-B1	70	60	72	60kgf	1.6kg
PMV-B2	80	56	72	70kgf	2.0kg
PMV-B3	125	60	73	80kgf	2.8kg
PMV-B4	100	70	95	+\$_[Z	4.0kg
PMV-B5	115	75	100	, \$_[Z	5.5kg



MAGNETIC V-BLOCK

FEATURES:

- Two blocks are especially for long workpieces use, can be used for attracting magnetism on striped or round workpieces
- Suitable for holding round steel for precision work in measuring, making and grinding.
- Two pieces finished to the same dimension are furnished together to a set
- Finished in both standard and special class precision.
- ON/OFF which makes it easy to operate and remove the block easily.

unit:mm

Model No.	Holding power	Applicable Diameter	Dimension			Weight
			L	W	H	
PMV-50	15 kgf	Ø50	70mm	40 mm	50 mm	1 kg X2
PMV-80	20 kgf	Ø80	100 mm	50 mm	80 mm	3 kg X2
PMV-125	23 kgf	Ø125	150mm	50 mm	100 mm	5 kg X2



PMV-80



PMV-125



MAGNETIC BLOCK

FEATURES:

- Used to extend magnetic force to hold bar, round or irregular shaped workpieces



Model No.	L×W×H	Weight	unit:mm
PMV-K1	100×50×25(1 pair)	1.1kg×2	
PMV-K2	100×60×48(1 pc)	2.0kg×1	
PMV-K3	50×60×48(1 pair)	0.9kg×2	

MAGNETIC SQUARE BLOCK

FEATURES:

- Used to support for precision works in measuring, marking and other similar operation
- Measuring available on the upper, side faces, V faces



Model No.	Holding power		Dimension	Main body material	Weight
	V-groove	Surface			
PMS-B1	25kgf	50kgf	100x100x100	steel & aluminum	6KG
PMS-B2	50kgf	140kgf	150x150x150	steel & aluminum	23KG
PMS-B3	25kgf	50kgf	100x100x100	steel & copper	7KG
PMS-B4	50kgf	140kgf	150x150x150	steel & copper	25KG

GAGING ARMS WITH DOVETAIL GUIDE



PMS-C1



PMS-C2



PMS-C3



PMS-C4
PMS-C5
PMS-C6

unit:mm

Model No.	Total height mm	Column mm	Measuring arm
PMS-C1		100	100
PMS-C2	150	150	150
PMS-C3	200	200	200
PMS-C4	250	250	250
PMS-C5	300	300	300
PMS-C6	350	350	350



UNIVERSAL DIAL GAGE STAND

FEATURES:

- With prismatic steel base
- With adjustable arms, with fine adjustment
- Height 215 mm
- Dimensions 220 x 58 x 35 mm
- For dial indicator with shaft 8 H7

Model No.	6b_h` a` `	@XTfheaZ`Te` ` `	5TfX`?k` k;` ` `
P10027-200	215 x \varnothing 14	2" x \varnothing 1S	220 x 58 x 35

unit:mm



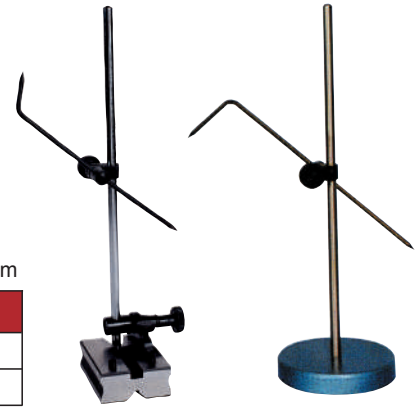
UNIVERSAL SURFACE GAGE

FEATURES:

- : WZf% " _ _
- 3` YVAX` Uf` Sfa` SVgeSTW
- I fZ ZScWWWd dTWS" _ _

Model No.	Height mm	Column mm	Base mm
P10027-300	300mm	\varnothing 10	50x50x35
P10027-301	300mm	\varnothing 10	\varnothing 90

unit:mm



HEAVY DUTY BENCH CENTER

FEATURES:

- Base from cast iron, height of center point 176 mm, 8 mm adjustable gibs, with dial indicator stand for dial indicator with shank 8 mm \varnothing , column 12 x 176 mm, measuring arm 10 x 150 mm



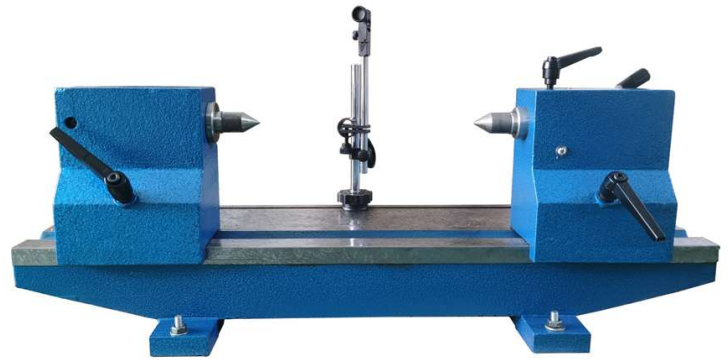
Model No.	Measuring Length (mm)	Height mm	Measuring Diameter (mm)	Accuracy (μ m)	
				Horizontal	Vertical
P2010	200	100	\leq 130	\leq 5	\leq 4
P3017	300	170	\leq 270	\leq 5	\leq 5
P3025	300	250	\leq 430	\leq 5	\leq 5
P3030	300	300	\leq 530	\leq 5	\leq 5
P5017	500	170	\leq 270	\leq 8	\leq 5
P5025	500	250	\leq 430	\leq 8	\leq 5
P5030	500	300	\leq 530	\leq 8	\leq 5
P10017	1000	170	\leq 270	\leq 10	\leq 8
P10025	1000	250	\leq 430	\leq 10	\leq 8
P10030	1000	300	\leq 530	\leq 10	\leq 8
P15023	1500	230	\leq 390	\leq 16	\leq 15
P15030	1500	300	\leq 430	\leq 16	\leq 15
P20023	2000	230	\leq 390	\leq 30	\leq 20
P20030	2000	300	\leq 430	\leq 30	\leq 20

unit:mm

PRECISION BENCH CENTRE

FEATURES:

- The base of bench centres and its heads are artificially stress relieved as precaution against distortion
- One of the centre is spring loaded to ensure uniform pressure while holding and easy loading and unloading of work piece without disturbing the accuracy.
- Centres are made from high carbon steel hardened and ground finish, having morse taper MT3 and are replaceable.
- Both heads are adjustable to the required positions, easy and quick setting of the required distance between the centres.
- The heavy duty bed is provided with two T-Slots, parallel to each other



unit:mm

Model No	Sizes mm	Centre Distance mm	Centre Height mm	Co-axiality of Centres Microns um	Parallelism of the axis of the centre With respect to guide ways.
PBC-300	300 x 125mm	300mm	125mm	10	10um/300 mm
PBC-301	300 x 160mm	300mm	160mm	10	10um/300 mm
PBC-500	500 x 160mm	500mm	160mm	15	10um/300 mm
PBC-501	500 x 200mm	500mm	200mm	15	15um/300 mm
PBC-1000	1000 x 200mm	1000mm	200mm	20	10um/300 mm
PBC-1001	1000 x300mm	1000mm	300mm	40	15um/300 mm
PBC-1500	1500 x250mm	1500mm	250mm	20	10um/300 mm
PBC-1501	1500 x 300mm	1500mm	300mm	40	15um/300 mm
PBC-2000	2000 x 250mm	2000mm	250mm	40	15um/300 mm
PBC-2001	2000 x300mm	2000mm	300mm	40	15um/300 mm
PBC-2500	2500 x 250mm	2500mm	250mm	40	15um/300 mm
PBC-2501	2500 x 300mm	2500mm	300mm	40	15um/300 mm
PBC-2502	2500 x 500mm	2500mm	500mm	60	20um/300 mm

CONCENTRICITY GAGE PS

FEATURES:

- Adjustable multi-position top arm yoke assembly offers a variety of clamping pressures and positions to accommodate a range of part diameter sizes
- All standard indicator carriers have fine adjustment screws that provide accurate indicator probe positioning, zeroing and provide smooth indicator movement to increase measuring performance and accuracy
- All gages come standard with a manual drive timing belt pulleys system that provides a constant smooth part rotation when inspecting. (Optional) 110/220 volts AC/DC fixed speed or variable speed motorized drive systems are available
- All carriers offer a variety of positions that move along the Z-axis of the carrier rod assembly. The carrier tilts 90 degrees to facilitate easy loading and unloading of parts



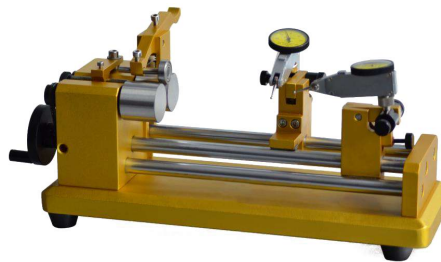
unit:mm

Model No	Diameter Capacity	Length mm	Gage Length	Gage Width	Accuracy mm	Weight
PS-25	3-25	102mm	267mm	114mm	≤ 2µm (.00008")	2.5kg
PS-50	10-50	152mm	320mm	114mm	≤ 2µm (.00008")	3.1kg
PS-102	20-102	203mm	370mm	152mm	≤ 2µm (.00008")	5.5kg

CONCENTRICITY GAGE PK

FEATURES:

- Concentricity Gage is comprised of three main components for assembly. #1) selection of standard or precision accuracy, #2) selection of main rollers, #3) select an indicator(s) and/or other accessories Precision Gold Gages are guaranteed better than $\leq 2\mu\text{m}$ (.00008") accuracy



unit:mm

Model No	Diameter Capacity	Length mm	Gage Length	Gage Width	Accuracy mm	Weight
PK-25	3-25	102	267mm	114mm	$\leq 2\mu\text{m}$ (0.00008")	6kg
PK-50	10-50	152	320mm	114mm	$\leq 2\mu\text{m}$ (0.00008")	7kg
PK-102	20-102	203	370mm	152mm	$\leq 2\mu\text{m}$ (0.00008")	9kg

CONCENTRICITY GAGE PK

FEATURES:

- Concentricity Gage is comprised of three main components for assembly. #1) selection of standard or precision accuracy, #2) selection of main rollers, #3) select an indicator(s) and/or other accessories Precision Gold Gages are guaranteed better than $\leq 2\mu\text{m}$ (.00008") accuracy



unit:mm

Model No	Diameter Capacity	Length mm	With Universal stand	Accuracy mm	Weight
PK-25W	3-25	102	YES	$\leq 2\mu\text{m}$ (0.00008")	6kg
PK-50W	10-50	152	YES	$\leq 2\mu\text{m}$ (0.00008")	7kg
PK-102W	20-102	203	YES	$\leq 2\mu\text{m}$ (0.00008")	9kg

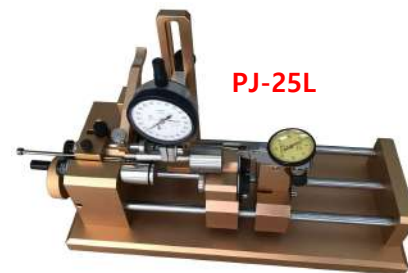
CONCENTRICITY GAGE PJ

FEATURES:

- Concentricity Gage is comprised of three main components for assembly. #1) selection of standard or precision accuracy, #2) selection of main rollers, #3) select an indicator(s) and/or other accessories. Precision Gold Gages are guaranteed better than $\leq 2\mu\text{m}$ (.00008") accuracy



PJ-25



PJ-25L

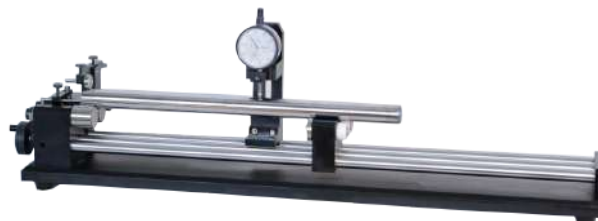
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Model No	Diameter Capacity	Length mm	Gage Length	Gage Width	Accuracy mm	Weight
PJ-25	3-25	102	267mm	114mm	$\leq 2\mu\text{m}$ (0.00008")	6kg
PJ-50	10-50	152	320mm	114mm	$\leq 2\mu\text{m}$ (0.00008")	7kg
PJ-102	20-102	203	370mm	152mm	$\leq 2\mu\text{m}$ (0.00008")	9kg
PJ-25L	3-25	305	360mm	140mm	$\leq 2\mu\text{m}$ (0.00008")	7kg
PJ-50L	10-50	305	410mm	140mm	$\leq 2\mu\text{m}$ (0.00008")	8kg
PJ-102L	20-102	305	450mm	160mm	$\leq 2\mu\text{m}$ (0.00008")	10kg

CONCENTRICITY GAGE PL

FEATURES:

- Concentricity Gage is comprised of three main components for assembly. #1) selection of standard or precision accuracy, #2) selection of main rollers, #3) select an indicator(s) and/or other accessories. Precision Gold Gages are guaranteed better than $\leq 2\mu\text{m}$ (.00008") accuracy.



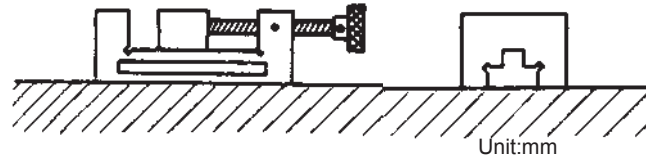
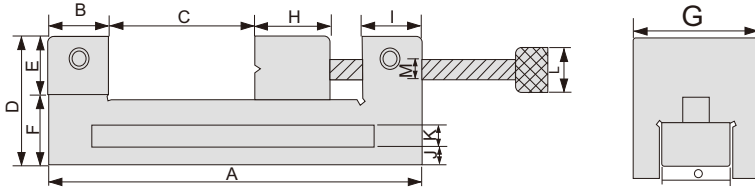
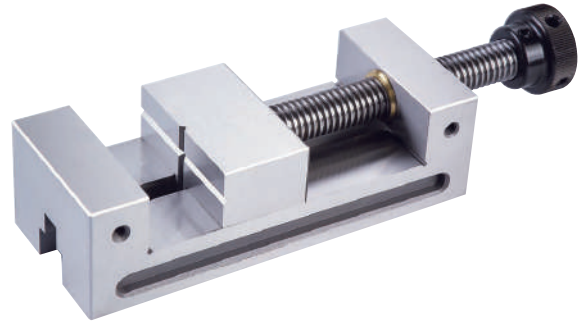
unit:mm

Model No	Diameter Capacity	Length mm	Gage Length	Gage Width	Accuracy mm	Weight
PL-25	3-25	610	660mm	140mm	$\leq 2\mu\text{m}$ (0.00008")	6kg
PL-50	10-50	610	660mm	140mm	$\leq 2\mu\text{m}$ (0.00008")	7kg
PL-102	20-102	610	660mm	160mm	$\leq 2\mu\text{m}$ (0.00008")	9kg

PRECISION TOOL VISE

FEATURES:

- Hardened by heat treatment and precision ground.
- Parallelism within ± 0.005 mm / 100 mm, squareness: 0.01 mm/100mm
- With spindle clamp
- Hardness: HRC $54^{\circ} \pm 2^{\circ}$



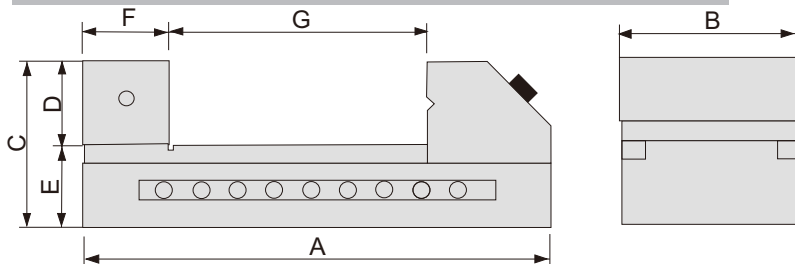
Unit:mm

MODEL NO.	MATERIAL	A LENGTH	B	JAW C OPENING	D	E	F	G	H	I	J	K	L	M	O	HEIGHT (mm)	HARDEN	WEIGHT (KGS)
VSD-20	SK2	156	25	0-63	52	25	27	48	34	25	9.50	8	34.70	15.80	18.7	54	HRC54°±2°	2.5
VSD-25	SK2	176	30	0-73	63	30	33	63	40	25	11	10	39.60	18.95	26	60	HRC54°±2°	3.9
VSD-30	SK2	190	35	0-76	73	35	38	73	45	25	14	10	50.35	18.95	26	70	HRC54°±2°	5.7
VSD-40	SK2	255	40	0-120	82	40	42	98	50	35	15	12	54.85	25.35	30.20	73	HRC54°±2°	9.2
VSD-50	SK2	310	50	0-152	100	50	50	125	57	35	18	14	54.65	25.35	29.60	73	HRC54°±2°	10.1
VSD-60	SK2	325	50	0-165	100	50	50	125	60	35	18	14	54.65	25.35	29.60	73	HRC54°±2°	10.1

PRECISION TOOL VISE

FEATURES:

- Hardened by heat treatment and precision ground.
- Parallelism within ± 0.005 mm / 100 mm, squareness: 0.01 mm/100mm
- With quick clamp
- Hardness: HRC $54^{\circ} \pm 2^{\circ}$

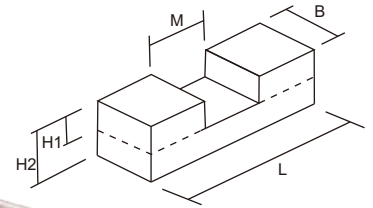
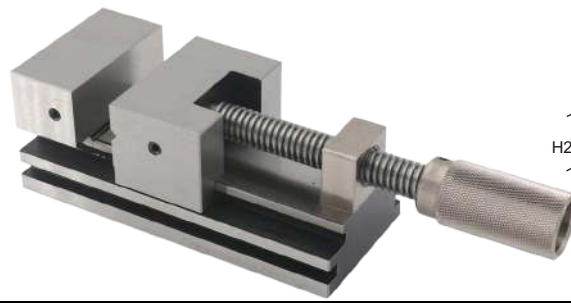


Model No.	A	B	C	D	E	F	G	N.W.
VS15	105	36	48	20	28	25	0-40	1kg
VS20	150	50	53	25	28	30	0-80	1.8kg
VS25	175	63	63	32	31	35	0-90	3.3kg
VS30	190	73	70	35	35	35	0-100	4.3kg
VS35	235	88	80	40	40	40	0-130	7.5kg
VS40	245	100	90	45	45	45	0-130	10kg
VS50	285	125	100	50	45	45	0-160	15kg

PRECISION PARALLEL VISE

FEATURES:

- Material Hardened: Sub-zero processing
- Parallelism: within 0.003mm/100mm
- Squareness: within 0.005mm/100mm
- Angle tol: within 15 esc within 20 esc
- hardness: HRC 54°±2°



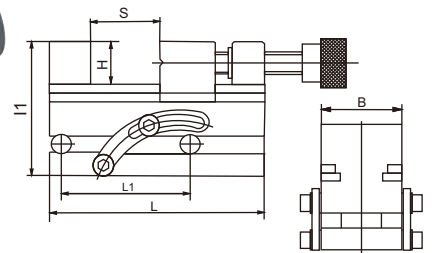
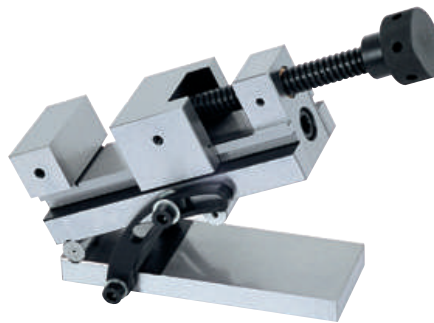
unit:mm

Model No.	B mm	M mm	H1 mm	H2 mm	L mm	Kg
PV45	45	50	20	45	110	3
PV60	60	70	25	50	140	7
PV70	70	80	30	62	160	11
PV90	90	120	35	70	190	14

PRECISION SINE VISE

FEATURES:

- Made by high quality steel, carburized to surface hardness: HRC58 ~ 62
- Parallelism 0.005mm/100mm, squareness 0.005mm
- Available inspecting angles and processing working with angle



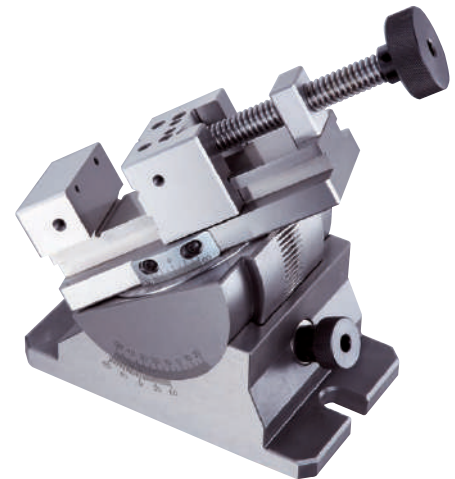
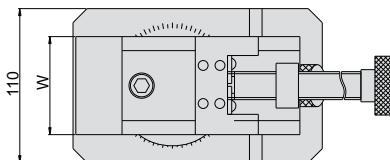
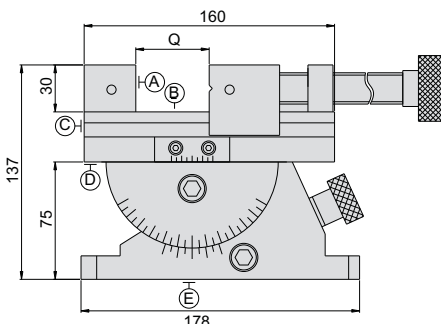
unit:mm

Model No.	B mm	H mm	H _i mm	S mm	L mm	L ₁		Adjustable angle range
						mm	in	
PGJ50	50	25	86.6	60	140	100	5	0~45°
PGJ63	63	32	94.6	85	175			
PGJ73	73	35	111	90	190			
PGJ80	80	40	121	95	200			
PGJ88	88	40	125	120	235			
PGJ100	100	45	139.2	125	245			
PKJ125	125	50	154.2	160	285	200	10	
PKJ150	150	50	160.9	190	330	200		

PRECISION UNIVERSAL ANGLE VISE

FEATURES:

- Horizontal rotary: range 360°, graduation 0.05°
- Vertical incline: range 45°, graduation 0.05°
- With vertical incline adjust knob
- Parallelism and squareness between A, B, C and D: 5µm/100mm, parallelism between D and E at 0°: 10µm/100mm
- Made of tool steel Hardness HRC56-58



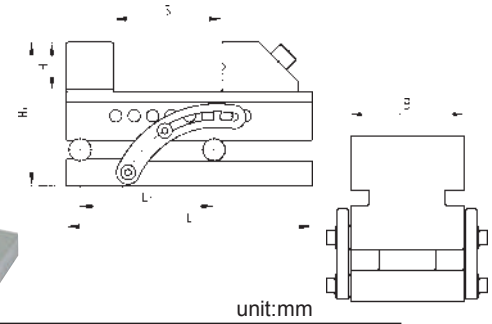
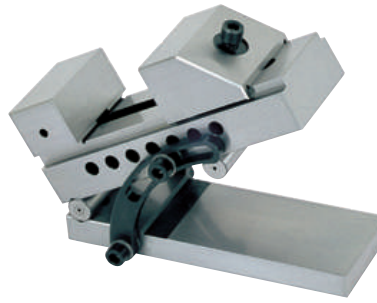
unit: mm

Model No.	Jaw opening(Q)	Jaw width(W)
PUA-80	0-80mm	70mm

PRECISION SINE VISE

FEATURES:

- Made by high quality steel , carburized to surface hardness: HRC55 ~ 62
- Parallelism 0.005mm/100mm , squareness 0.005mm
- Available inspecting angles and processing working with angle



unit:mm

Model No.	B mm	H mm	Hi mm	Smax mm	L mm	L1		Adjustable angle range
						mm	in	
PKG50	50	25	79.36	65	140	100	4	0~45°
PKG63	63	32	92.36	85	175			
PKG73	73	35	104	100	190			
PKG80	80	40	117	100	200			
PKG88	88	40	122	125	235			
PKG100	100	45	134.08	125	245	200	10	
PKG125	125	50	144.08	160	285			
PKG150	150	50	150.9	200	330	200	10	

PARALLEL SET

FEATURES:

- Parallels according to DIN ISO 2768m
- Aged steel,hardness 55-62HRC
- Hardened and ground in pairs
- Tolerance $\pm 0,01$ mm
- Parallelism 0,01 mm
- In wooden case



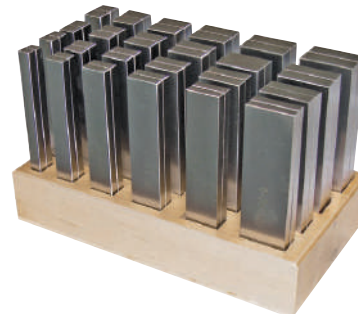
unit:mm

Model No.	Length mm	Pairs	Width mm	Size (mm)	Weight kg
P33-001	100	9	4	10, 14, 18, 22, 26, 30, 34, 38, 42	1,7
P33-004	160	9	4	10, 14, 18, 22, 26, 30, 34, 38, 42	2,7
P33-002	120	12	10	14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40	6,6
P33-003	150	14	10	14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40 , 45 , 50	10.4

PARALLEL SET

FEATURES :

- Parallels according to DIN ISO 2768m
- Aged steel,hardness 55-62HRC
- Hardened and ground in pairs
- Tolerance $\pm 0,01$ mm
- Parallelism 0,01 mm
- In wooden case



unit:mm

Model No.	Length mm	Pairs	Size (D x H) mm	Weight kg
P33-010	100	20	2 x 5, 2 x 10, 2 x 15, 2 x 20 3 x 6, 3 x 11, 3 x 16, 3 x 21 4 x 7, 4 x 12, 4 x 17, 4 x 22 5 x 8, 5 x 13, 5 x 18, 5 x 23 6 x 9, 6 x 14, 6 x 19, 6 x 24	2,4
P33-011	125	24	8 x 11, 8 x 16, 8 x 21, 8 x 26, 8 x 31, 8 x 36 10 x 13, 10 x 18, 10 x 23, 10 x 28, 10 x 33, 10 x 38	14,5
P33-012	150	24	12 x 15, 12 x 20, 12 x 25, 12 x 30, 12 x 35, 12 x 40 14 x 17, 14 x 22, 14 x 27, 14 x 32, 14 x 37, 14 x 42	17,6

STEEL PARALLEL, SINGLE PAIR

FEATURES:

- Parallels according to DIN ISO 2768m
- Aged steel, hardness 55-62HRC
- Hardened and ground in pairs
- Tolerance $\pm 0,01$ mm
- Parallelism 0,01 mm
- Delivery in pairs



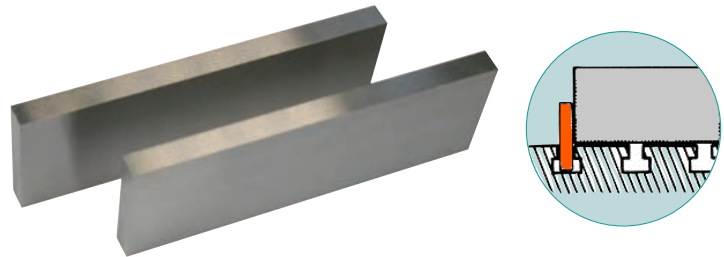
unit:mm

Length mm	100	125	150
Model no.	Size (D x H) mm	Model no.	Size (D x H) mm
P33-100-1	2 x 5	P33-125-1	8 x 11
P33-100-2	3 x 6	P33-125-2	10 x 13
P33-100-3	4 x 7	P33-125-3	12 x 15
P33-100-4	5 x 8	P33-125-4	8 x 16
P33-100-5	6 x 9	P33-125-5	14 x 17
P33-100-6	2 x 10	P33-125-6	10 x 18
P33-100-7	3 x 11	P33-125-7	12 x 20
P33-100-8	4 x 12	P33-125-8	8 x 21
P33-100-9	5 x 13	P33-125-9	14 x 22
P33-100-10	6 x 14	P33-125-10	10 x 23
P33-100-11	2 x 15	P33-125-11	12 x 25
P33-100-12	3 x 16	P33-125-12	8 x 26
P33-100-13	4 x 17	P33-125-13	14 x 27
P33-100-14	5 x 18	P33-125-14	10 x 28
P33-100-15	6 x 19	P33-125-15	12 x 30
P33-100-16	2 x 20	P33-125-16	8 x 31
P33-100-17	3 x 21	P33-125-17	14 x 32
P33-100-18	4 x 22	P33-125-18	10 x 33
P33-100-19	5 x 23	P33-125-19	12 x 35
P33-100-20	6 x 24	P33-125-20	8 x 36
		P33-125-21	14 x 37
		P33-125-22	10 x 38
		P33-125-23	12 x 40
		P33-125-24	14 x 42
			P33-150-1
			P33-150-2
			P33-150-3
			P33-150-4
			P33-150-5
			P33-150-6
			P33-150-7
			P33-150-8
			P33-150-9
			P33-150-10
			P33-150-11
			P33-150-12
			P33-150-13
			P33-150-14
			P33-150-15
			P33-150-16
			P33-150-17
			P33-150-18
			P33-150-19
			P33-150-20
			P33-150-21
			P33-150-22
			P33-150-23
			P33-150-24

STEEL PARALLEL, SINGLE PAIR

FEATURES:

- : cf'j Yfh'W' d'cg|h'cb|' c'Zk cf_g'd]YWg
- A UXY'c'Zgd'YVW'gh'Y'z'Z'bY' [fci bX
- : cf'a UW'lbY' [fcc]Yg'fk, t
- Tolerance $\pm 0,01$ mm
- Parallelism 0,01 mm
- 8Y'j] Yfm]b' dUjfg'



unit:mm

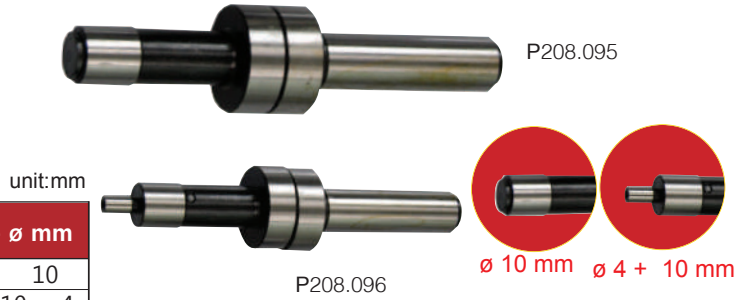
Length mm	100	120	120	160	240
Height mm	40 \pm 0,0055	60 \pm 0,0065	80 \pm 0,0065	80 \pm 0,0065	80 \pm 0,0065
Thickness mm	Model no.	Model no.	Model no.	Model no.	Model no.
8	P34-100-1	P34-120-1	P34-121-1		
10	P34-100-2	P34-120-2	P34-121-2		
12	P34-100-3	P34-120-3	P34-121-3		
14	P34-100-4	P34-120-4	P34-121-4		
16	P34-100-5	P34-120-5	P34-121-5	P34-160-1	
18	P34-100-6	P34-120-6	P34-121-6	P34-160-2	
22	P34-100-7	P34-120-7	P34-121-7	P34-160-3	P34-240-1

EDGE FINDER

FEATURES:

- Rotating spindle
- Accuracy 0.01 mm
- Max. rotation 600 r.p.m.

Model No.	Length mm	Shank mm	Probe ϕ mm
P208.095	84	10	10
P208.096	94	10	10 + 4

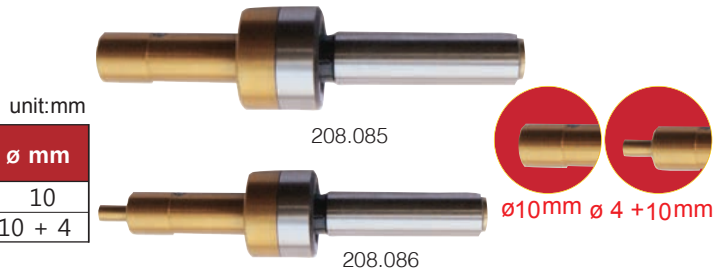


EDGE FINDER TIN COATED

FEATURES:

- TIN coated

Model No.	Length mm	Shank mm	Probe ϕ mm
P208.085	84	10	10
P208.086	94	10	10 + 4

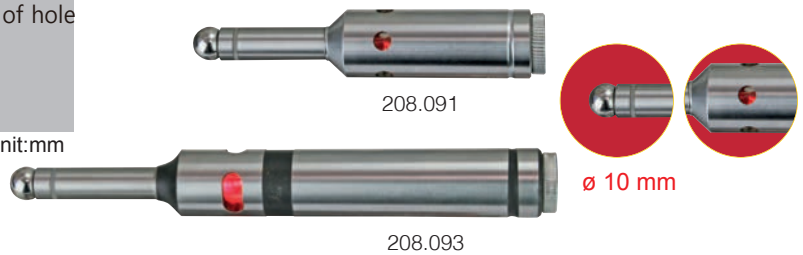


ELECTRONIC EDGE FINDER

FEATURES:

- For adjusting basic surface, edges or the center of hole
- Front tip hardened, $\phi = 10$ mm
- With LED lamp and beep sound
- With battery

Model No.	Length mm	Shank mm
P208.091	103	20
P208.093	160	20



SURFACE ROUGHNESS GAGE SET

FEATURES:

- Surface roughness comparator is used to check the smooth finish of a mechanical workpiece by comparison method and eye estimation or microscope is used to compare and detect the degree of the surface roughness.

Model No.
RUG-120



manufacturing method	Plain milling	Turning	Vertical milling	Sharping	Plain grinding	External grinding	Polishing
Roughness parameter Nominal value Ra (UM)							0.025
							0.05
					0.1	0.1	0.1
					0.2	0.2	
					0.4	0.4	
		0.8	0.8	0.8	0.8	0.8	
		1.6	1.6	1.6	1.6		
		3.2	3.2	3.2	3.2		
	6.3	6.3	6.3	6.3			

SURFACE ROUGHNESS GAGE SET

FEATURES:

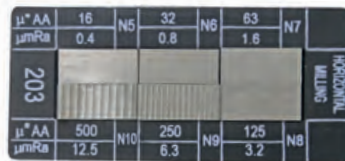
- This set consists of 30 comparison specimens, covering six commonly-used machining methods (6 turned, 6 end-milled, 6 horizontally milled, 6 surface-ground, 2 flat lapped, 4 external grinding). A label gives the Ra and Rz values of each specimen in both metric and imperial units.
- Great for checking the roughness of spark-eroded surfaces, the roughness of steel surfaces which have been prepared for painting by blast-cleaning, as outlined in ISO 8503 and estimating the surface roughness prior to accurate measurement by a stylus instrument, as recommended
- BS EN ISO 4288, ISO 8503
- They can be used to check the seriousness of damage to parts caused by nicks, dents and scratches and reconditioned ship propeller blades



RUG-100



RUG-T1 plain grinding

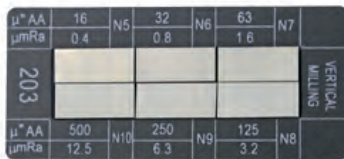


RUG-T2 horizontal milling

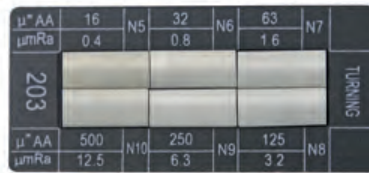


RUG-T5 external grinding

by batches in case



RUG-T3 vertical milling



RUG-T4 turning

Model No.	Pcs./set	Using
RUG-100	30	Turning, vertical milling, horizontal milling, plain grinding, external grinding, flat lapping
RUG-T1	6	Plain grinding
RUG-T2	6	Horizontal milling
RUG-T3	6	Vertical milling
RUG-T4	6	Turning
RUG-T5	6	External grinding



Turning		Vertical milling		Horizontal milling		Plain grinding		External grinding		Flat lapping	
μm	μAA	μm	μAA	μm	μAA	μm	μAA	μm	μAA	μm	μAA
12,5	500	12,5	500	12,5	500	1,6	63	1,6	63		
6,3	250	6,3	250	6,3	250	0,8	32	0,8	32		
3,2	125	3,2	125	3,2	125	0,4	16	0,4	16		
1,6	63	1,6	63	1,6	63	0,2	8	0,2	8		
0,8	32	0,8	32	0,8	32	0,1	4			0,1	4
0,4	16	0,4	16	0,4	16	0,05	2			0,05	2

INSPECTION GRANITE SURFACE PLATE

FEATURES:

- Density: 2970~3070kg/m³
- Compressive strength: 245-254Mpa
- Elastic modulus: 30-50Gpa
- Coefficient of extensibility: 4.61x10⁻⁶/°C Absorption: ≤0.07
- Shore hardness: above Hs70
- Twice hard than cast iron, long life, no rusty
- With certificate
- Standard DIN876



unit:mm

Model No./GeTVK'##	Model No./GeTVK' #	: eTVK' #0' F_TgaXff' `	: eTVK' #' F_TgaXff' `	FvX' `
P10001-250	P10002-250	2.0μm	4.0μm	250x250x50mm
P10001-300	P10002-300	3.0μm	5.0μm	300x300x50mm
P10001-301	P10002-301	3.0μm	5.0μm	300x200x50mm
P10001-400	P10002-400	3.0μm	6.0μm	400x250x60mm
P10001-401	P10002-401	3.0μm	6.0μm	400x400x60mm
P10001-402	P10002-402	3.0μm	6.0μm	400x400x100mm
P10001-500	P10002-500	3.0μm	6.0μm	500x500x80mm
P10001-630	P10002-630	3.0μm	7.0μm	630x400x80mm
P10001-631	P10002-631	3.0μm	7.0μm	630x630x100mm
P10001-800	P10002-800	3.6μm	7.0μm	800x500x100mm
P10001-1000	P10002-1000	4.0μm	8.0μm	1000x630x100mm
P10001-1001	P10002-1001	4.0μm	8.0μm	1000x630x150mm
P10001-1002	P10002-1002	4.0μm	8.0μm	1000x1000x100mm
P10001-1003	P10002-1003	4.0μm	8.0μm	1000x1000x150mm
P10001-1200	P10002-1200	4.4μm	8.8μm	1200x800x150mm
P10001-1201	P10002-1201	4.4μm	8.8μm	1200x800x200mm
P10001-1500	P10002-1500	5.0μm	10.0μm	1500x1000x150mm
P10001-1501	P10002-1501	5.0μm	10.0μm	1500x1000x200mm
P10001-1600	P10002-1600	6.0μm	12.0μm	1600x1000x200mm
P10001-2000	P10002-2000	6.0μm	12.0μm	2000x1000x200mm
P10001-2001	P10002-2001	6.0μm	12.0μm	2000x1000x250mm
P10001-2002	P10002-2002	6.0μm	12.0μm	2000x1500x300mm
P10001-2500	P10002-2500	7.0μm	14.0μm	2500x1500x300mm
P10001-3000	P10002-3000	8.0μm	16.0μm	3000x2000x400mm
P10001-4000	P10002-4000	10.0μm	20.0μm	4000x2000x500mm
P10001-6000	P10002-6000	15.0μm	28.0μm	6000x2000x700mm

GRANITE SURFACE PLATE STAND

FEATURES:

- For medium size granite surface plates
- Including 5 leveling jacks, packed in wooden case

Model No.	For granite surface plate	unit:mm
P10004-630	630x400x80mm	
P10004-631	630x630x80mm	
P10004-800	800x500x100mm	
P10004-1000	1000x630x150mm	
P10004-1001	1000x1000x150mm	
P10004-1200	1200x800x150mm	
P10004-1500	1500x1000x200mm	
P10004-2000	2000x1000x200mm	
P10004-2001	2000x1000x250mm	
P10004-2500	2500x1500x300mm	
P10004-3000	3000x2000x400mm	



INSPECTION GRANITE SURFACE PLATE



0-Ledge



2-Ledge

- PRECISION GRANITE SURFACE PLATES are manufactured to meet or exceed the tolerances specified by ASME B89.3.7-2013 and Federal Specification GGG-P-463c. Calibration Certificate is included with every surface plate guaranteeing overall surface flatness and repeat gage measurements, and is traceable to equivalent National or International Organization, complies with, ANSI/NCSL Z540-1 and ISO 10012 in accordance with our ISO 9001 certified quality system. Long-form certification is available.
- PRECISION GRANITE plates are made of black granite which is stronger and denser than light colored granite, and more stable. The granite properties determine the stiffness of the granite so accuracies can be guaranteed with less thickness than other types of granite. This translates to less freight and handling whenever the plate is shipped or moved.

AA	Laboratory Grade	High precision operations in temperature controlled gauging rooms and metrology departments
A	Inspection Grade	General quality control use
B	Toolroom Grade	Shop work and production checking

LABORATORY GRADE "AA"

unit:mm

0-Ledge Model No.	2-Ledge Model No.	Overall Accuracy	Thickness	Size
P10005-12	P10006-12	0.000025"	3"	9×12"
P10005-18	P10006-18	0.000025"	3"	12×18"
P10005-24	P10006-24	0.000037"	4"	18×24"
P10005-36	P10006-36	0.000050"	6"	24×36"
P10005-48	P10006-48	0.0001"	6"	36×48"
INSPECTION GRADE "A"				
P10007-01	P10008-01	0.000050"	3"	9×12"
P10007-02	P10008-02	0.000050"	3"	12×12"
P10007-03	P10008-03	0.000050"	3"	12×18"
P10007-04	P10008-04	0.000050"	3"	18×18"
P10007-05	P10008-05	0.000075"	3"	18×24"
P10007-06	P10008-06	0.000075"	3"	24×24"
P10007-07	P10008-07	0.0001"	4"	24×36"
P10007-08	P10008-08	0.0002"	4"	36×48"
P10007-09	P10008-09	0.0002"	6"	36×48"
P10007-10	P10008-10	0.00025"	6"	36×60"

TOOLROOM GRADE "B"

unit:mm

0-Ledge Model No.	2-Ledge Model No.	Overall Accuracy	Thickness	Size
P10009-01	P10010-01	0.0001"	2"	5×6"
P10009-02	P10010-02	0.0001"	2"	6×8"
P10009-03	P10010-03	0.0001"	2"	8×12"
P10009-04	P10010-04	0.0001"	2"	9×12"
P10009-05	P10010-05	0.0001"	3"	9×12"
P10009-06	P10010-06	0.0001"	3"	12×12"
P10009-07	P10010-07	0.0001"	3"	12×18"
P10009-08	P10010-08	0.0001"	4"	12×18"
P10009-09	P10010-09	0.0001"	3"	18×18"
P10009-10	P10010-10	0.0001"	3"	18×24"
P10009-11	P10010-11	0.00015"	4"	18×24"
P10009-12	P10010-12	0.00015"	3"	24×24"
P10009-13	P10010-13	0.0002"	4"	24×36"
P10009-14	P10010-14	0.0003"	4"	24×48"
P10009-15	P10010-15	0.0004"	4"	36×48"
P10009-16	P10010-16	0.0004"	6"	36×48"
P10009-17	P10010-17	0.0005"	6"	36×60"
P10009-18	P10010-18	0.0006"	6"	48×60"
P10009-19	P10010-19	0.0005"	6"	48×72"
P10009-20	P10010-20	0.0007"	6"	48×84"
P10009-21	P10010-21	0.0007"	8"	48×96"
P10009-22	P10010-22	0.00008"	12"	9×12"

GRANITE V-BLOCK

FEATURES:

- For inspecting the coaxality cylindricity symmetry and shifting of revolution parts



Unit: mm

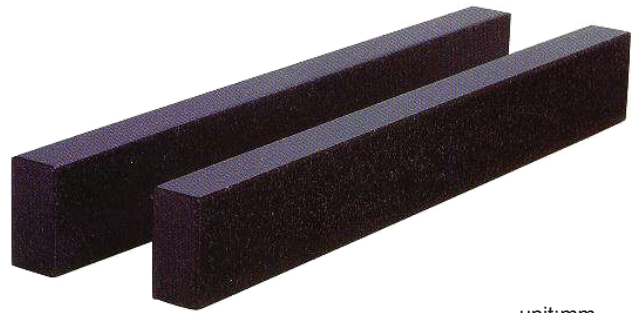
Model No. Grade 0	Model No. Grade 1	Dimension mm
P10011-63-0	P10011-63-1	63x63x90
P10011-100-0	P10011-100-1	100x100x90
P10011-160-0	P10011-160-1	160x160x90

Dimension mm	Flatness of working surface (μm)		Parallelism between V slot to bottom surface (μm)		Height difference of the V slot within a matched pair (μm)	
	Grade0	Grade1	Grade0	Grade1	Grade0	Grade1
63x63x90	1.5	3	4	8	5	10
100x100x90	2	4	4	8	5	10
160x160x90	2.5	5	5	10	6	12

GRANITE PARALLEL

FEATURES:

- For inspecting the parallelism of workpieces
- Supplied in pair



unit:mm

Model No. Grade 00	Model No. Grade 0	Dimension mm
P10012-100-00	P10012-100-0	100×63×16 mm
P10012-160-00	P10012-160-0	160×40×25 mm
P10012-250-00	P10012-250-0	250×40×25 mm
P10012-400-00	P10012-400-0	400×63×40 mm
P10012-630-00	P10012-630-0	630×100×63 mm

Dimension mm	Flatness and beeline of the measuring surface (μm)		Parallelism of the two measuring surface(μm)	
	Grade 00	Grade 0	Grade 00	Grade 0
100×63×16mm	1.5	3	1.5	3
160×40×25mm	1.5	3	1.5	3
250×40×25mm	2	4	2	4
400×63×40mm	4	8	4	8
630×100×63 mm	6	12	6	12

GRANITE SQUARE

FEATURES :

- For inspecting machine spindle and else squareness

unit:mm

Model No. Grade 00	Model No. Grade 0	Dimension mm
P10013-100-00	P10013-100-0	100×63×16
P10013-160-00	P10013-160-0	160×100×20
P10013-250-00	P10013-250-0	250×160×25
P10013-400-00	P10013-400-0	400×250×40
P10013-630-00	P10013-630-0	630×400×63
P10013-1000-00	P10013-1000-0	1000×630×80

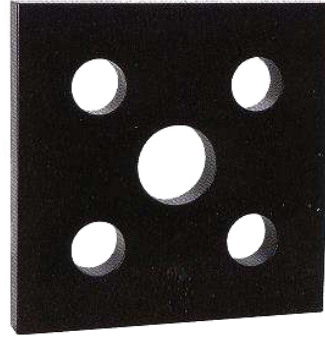


Dimension mm	Perpendicularity between measuring and standard surface(μm)		flatness and beeline of the measuring surfaces (μm)		flatness and beeline of the standard surface(μm)	
	Grade 00	Grade 0	Grade 00	Grade 0	Grade 00	Grade 0
100×63×16	2	4	1	1	1	1
160×100×20	2	4	1	2	1	1
250×160×25	2.5	5	1	2	1	2
400×250×40	3.5	7	1	2.5	1	2
630×400×63	4.5	9	1.5	3	1	2.5
1000×630×80	6	12	2.5	5	2.5	3

GRANITE SQUARE

FEATURES:

- For inspection 90° angle, straightness and parallelism in granite



Unit: mm

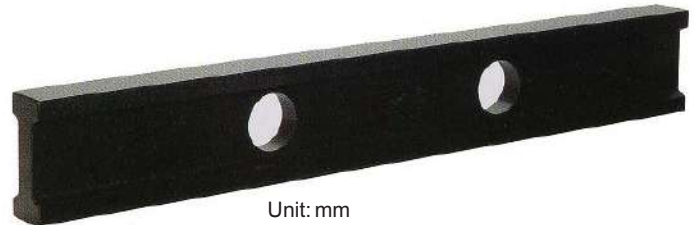
Model No. Grade 000	Model No. Grade 00	Model No. Grade 0	Dimension mm
P10014-100-000	P10014-100-00	P10014-100-0	100×100×20
P10014-160-000	P10014-160-00	P10014-160-0	160×160×25
P10014-200-000	P10014-200-00	P10014-200-0	200×200×25
P10014-250-000	P10014-250-00	P10014-250-0	250×250×30
P10014-300-000	P10014-300-00	P10014-300-0	300×300×30
P10014-400-000	P10014-400-00	P10014-400-0	400×400×40
P10014-500-000	P10014-500-00	P10014-500-0	500×500×50
P10014-600-000	P10014-600-00	P10014-600-0	630×630×60

Dimension mm	Grade								
	000	00	0	000	00	0	000	00	0
	Squareness between measuring surfaces (μm)			Straightness of measuring surface (μm)			Parallelism between opposite measuring surface (μm)		
100×100×20	0.7	1.5	3.0	0.4	0.7	1.4	0.8	1.5	3.0
160×160×25	0.8	1.8	3.5	0.4	0.8	1.6	0.8	1.8	3.5
200×200×25	0.9	2.0	4.0	0.4	0.9	1.8	1.0	2.0	4.0
250×250×30	1.1	2.2	4.5	0.5	1.0	2.0	1.1	2.2	4.5
300×300×30	1.3	2.6	5.2	0.6	1.1	2.3	1.3	2.6	5.5
400×400×40	1.5	3.0	6.0	0.6	1.3	2.6	1.5	3.0	6.0
500×500×50	1.8	3.5	7.0	0.8	1.5	3.0	1.8	3.5	7.0
630×630×60	2.1	4.2	8.3	0.9	1.8	3.5	2.1	4.2	8.3

GRANITE STRAIGHT EDGE

FEATURES:

- Straight rules precision
- For inspecting the straightness and flatness



Unit: mm

Model No. Grade 00	Model No. Grade 0	Dimension mm
P10015-400-00	P10015-400-0	400×60×25
P10015-630-00	P10015-630-0	630×100×35
P10015-1000-00	P10015-1000-0	1000×160×50
P10015-1600-00	P10015-1600-0	1600×250×80
P10015-2000-00	P10015-2000-0	2000×300×100

Dimension mm	Straightness & flatness of working surface (μm)		parallelism between measuring surfaces (μm)		Squareness between working surface (μm)	
	Grade 00	Grade 0	Grade 00	Grade 0	Grade 00	Grade 0
400×60×25	1.6	1.6	2.4	3.9	8	13
630×100×35	2.1	3.5	3.2	5.3	10.5	18
1000×160×50	3.0	5.0	4.5	7.5	15	25
1600×250×80	4.4	7.4	6.6	11.1	22	37
2000×300×100	5.4	9.0	8.1	13.5	27	48

INSPECTION RECTANGULAR SQUARE 90°

FEATURES :

- Solid, and wear resistant. Accuracy of surface according to DIN 876. Squareness according to DIN 875. For weight reduction and for better handling machined with reduction bores. The four small outer flats are worked parallel and rectangular to each other.

unit:mm

Model No.	Size mm	Permitted deviation of Squareness mm	Approx.weight kg
P1603202	400X250X60	0.003	18
P1603205	600X300X80	0.003	36
P1603207	800X400X100	0.004	70
P1603209	1000X500X120	0.005	140



CALIBRATION CUBE 90°

FEATURES :

- Solid, and wear-resistant. Accuracy of surface, squareness and parallelism see table. Starting from an edge length of 400 mm equipped with two ring bolts for transport, delivery without belts.

Model No.	Size mm	Tolerance Grade 00 mm	Approx.weight kg
P1603804	150x150x150	0.0020	10
P1603805	300x300x300	0.0020	78
P1603806	400x400x400	0.0030	185
P1603807	500x500x500	0.0040	360
P1603808	750x750x750	0.0060	1220
P1603809	1000x1000x1000	0.0070	2900



GRANTIE COMPARATOR STAND

FEATURES:

- Provides flat surface for dial indicator measurements
- Base: Granite, flatness DIN876 grade 00
- Main Post: Stainless steel
- Bracket: Aluminum, clamp hole 8mm (optional: hole 3/8")
- Granite is abrasion resistant.
- Packed in wooden box



Model No.	Base(LxWxH)	Column(DxL)	Vertical Range	Remarks
P10018-200A	200x150x65mm	Φ30x200mm	210mm	No threaded rod, no fine adj.
P10018-250A	250x200x65mm	Φ30x300mm	210mm	
P10018-300A	300x200x65mm	Φ30x300mm	210mm	
P10018-400A	400x300x65mm	Φ30x300mm	210mm	
P10018-200B	200x150x65mm	Φ30x200mm	210mm	Threaded rod, no fine adj.
P10018-250B	250x200x65mm	Φ30x300mm	210mm	
P10018-300B	300x200x65mm	Φ30x300mm	210mm	
P10018-400B	400x300x65mm	Φ30x300mm	210mm	

unit:mm

GRANTIE COMPARATOR STAND

FEATURES :

- Provides flat surface for dial indicator measurements
- Base: Granite, flatness DIN876 grade 00
- Main Post: Stainless steel
- Bracket: Aluminum, clamp hole 8mm (optional: hole 3/8")
- Granite is abrasion resistant.
- Packed in wooden box

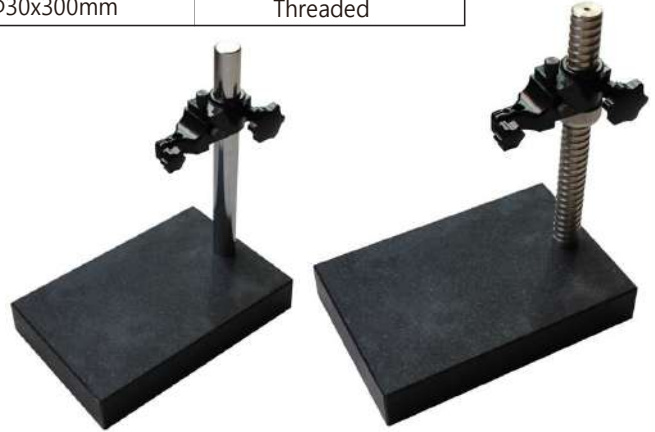


Model No.	Base(LxWxH)	Column(DxL)	Remarks	unit:mm
P10020-250A	250x200x65mm	Φ30x300mm	No threaded	
P10020-300A	300x200x65mm	Φ30x300mm	No threaded	
P10020-400A	400x300x65mm	Φ30x300mm	No threaded	
P10020-250B	250x200x65mm	Φ30x300mm	Threaded	
P10020-300B	300x200x65mm	Φ30x300mm	Threaded	
P10020-400B	400x300x65mm	Φ30x300mm	Threaded	

GRANTIE COMPARATOR STAND

FEATURES :

- Provides flat surface for dial indicator measurements
- Base: Granite, flatness DIN876 grade 00
- Main Post: Stainless steel
- Bracket: Aluminum, clamp hole 8mm (optional: hole 3/8")
- With fine adjustment 5mm height
- Granite is abrasion resistant
- Packed in wooden box

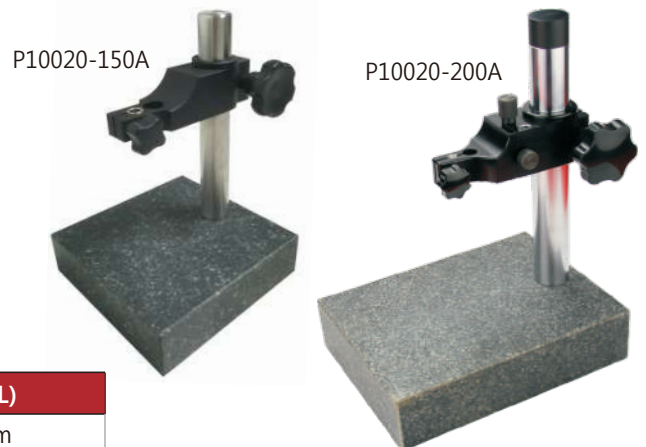


Model No.	Base(LxWxH)	Column(DxL)	Remarks	unit:mm
P10022-250A	250x200x65mm	Φ30x300mm	No threaded	
P10022-300A	300x200x65mm	Φ30x300mm	No threaded	
P10022-400A	400x300x65mm	Φ30x300mm	No threaded	
P10022-250B	250x200x65mm	Φ30x300mm	Threaded	
P10022-300B	300x200x65mm	Φ30x300mm	Threaded	
P10022-400B	400x300x65mm	Φ30x300mm	Threaded	

GRANTIE COMPARATOR STAND

FEATURES :

- Provides flat surface for dial indicator measurements
- Base: Granite, flatness DIN876 grade 00
- Main Post: Stainless steel
- Bracket: Aluminum, clamp hole 8mm (optional: hole 3/8")
- Granite is abrasion resistant.
- Packed in carton box



Model No.	Base(LxWxH)	Column(DxL)
P10020-150A	150x100x65mm	Φ30x200mm
P10020-200A	200x150x65mm	Φ30x200mm with fine adj.

GRANTIE PLATES WITH THREAD HOLE

FEATURES :

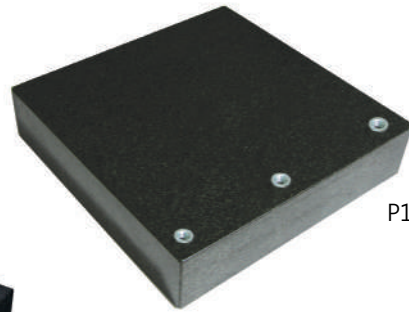
- Granite, flatness DIN876 grade 00
- With M8 thread for dial stands



P10026-200



P10026-300



P10026-401

sample



unit:mm

Model No.	Base(LxWxH)	Thread	Weight kg
P10026-150	150 x 100 x 65	1 x M 8 (2)	3.5
P10026-200	200 x 150 x 65	1 x M 8 (2)	4.7
P10026-300	300 x 200 x 65	2 x M 8 (1+2)	9.5
P10026-400	400 x 300 x 65	3 x M 8 (1+2+3)	16
P10026-401	400 x 400 x 65	3 x M 8 (1+2+3)	25

DIAL GAGE COMPARATOR STAND

FEATURES:

- Rugged cast iron base
- Enameled finish
- Full ground working surface
- Fine adjustment knuckle on clamp
- Accepts all dial indicators and digital indicators with lug backs
- 5mm fine adjustment
- Base size: 150X105X45 mm(LxWxH)
- Column size: Φ30x200mm(DxL)
- Furnished with 2 bushings for 3/8" and 8mm indicator stems



Model No.

P10023-150A



Model No.

P10023-150B



Model No.

P10023-150C

GRANITE MECHANICAL COMPONENTS

We can produce and design all speical granite mechanical parts according to customers' drawing.

GRANITE MACHINE PARTS

CMM MACHINE PARTS

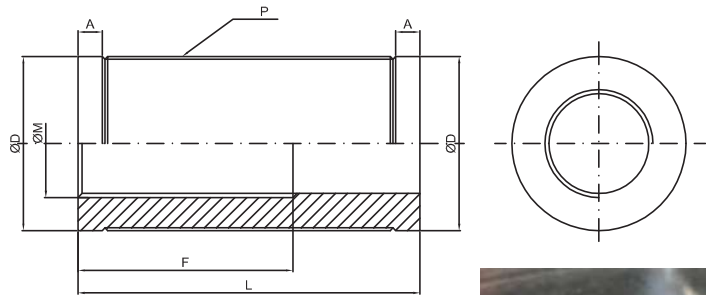
LASER MACHINE PARTS

CNC MACHINE PARTS

DRILLING AND MILLING MACHINE PARTS ENGRAVING MACHINE PARTS



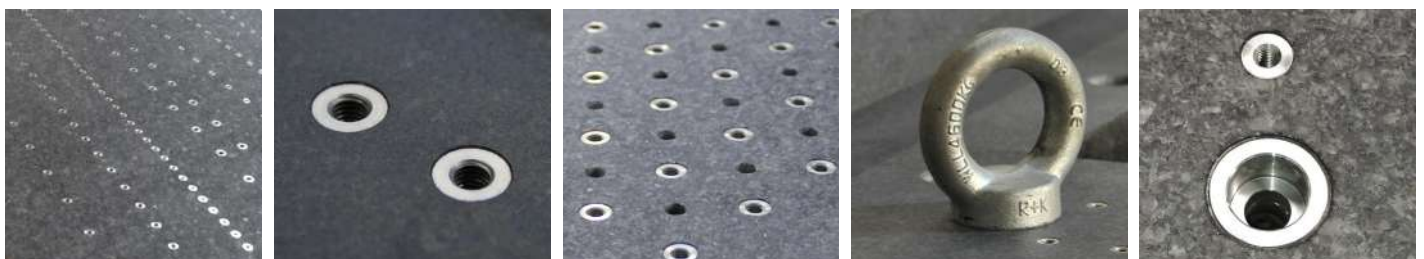
$\varnothing M$	$\varnothing D$	L	F	T (N)	S (Nm)
M3	7.8	12	9	5124	2
M4	9.8	16	11	6813	3
M5	11.8	20	14	10204	6
M6	12.8	27	17	14565	10
M8	14.8	34	23	21023	25
M10	17.8	42	28	31154	50
M12	19.8	50	33	40996	85
M14	21.8	60	38	53762	135
M16	29.7	60	44	75455	200



$\varnothing M$ = Thread diameter
 $\varnothing D$ = Outer diameter
 L = Insert length
 F = Thread length
 T = Resistance to extraction after glueing
 S = Maximum tightening torque



The inserts in the table above are dimensioned for the use of screws in class 8.8. For other specific requests please contact our technical department.



CAST IRON SURFACE PLATE

FEATURES:

- Hardened and tempered
- With mounting holes for handling
- Packed in wooden case



Model No. Grade 0	Model No. Grade 1	Grade 1 flatness μm	Size mm
P10023-01	P10024-01	10 μm	200x200mm
P10023-02	P10024-02	12 μm	300x200mm
P10023-03	P10024-03	12 μm	300x300mm
P10023-04	P10024-04	12 μm	300x400mm
P10023-05	P10024-05	12 μm	400x400mm
P10023-06	P10024-06	14 μm	600x400mm

unit:mm

CYLINDRICAL SQUARE

FEATURES:

- Used in surface plates 90°reference angle.
- Used for checking squares,height gages and many other instruments.
- Made of high quality steel
- Hardness:HRC52-58

unit:mm

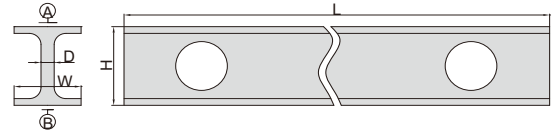
Model No.	Straightness μm	Squareness μm	SIZE mm
P10044-01	3	3	$\Phi 75 \times 150$
P10044-02	3	3	$\phi 80 \times 200$
P10044-03	3	3	$\Phi 80 \times 315$
P10044-04	3	4	$\phi 80 \times 400$
P10044-05	3	4	$\phi 100 \times 500$
P10044-06	4	5	$\phi 125 \times 630$
P10044-07	6	8	$\phi 140 \times 800$
P10044-08	7	10	$\phi 160 \times 1000$



MAGNESIUM STRAIGHT EDGE

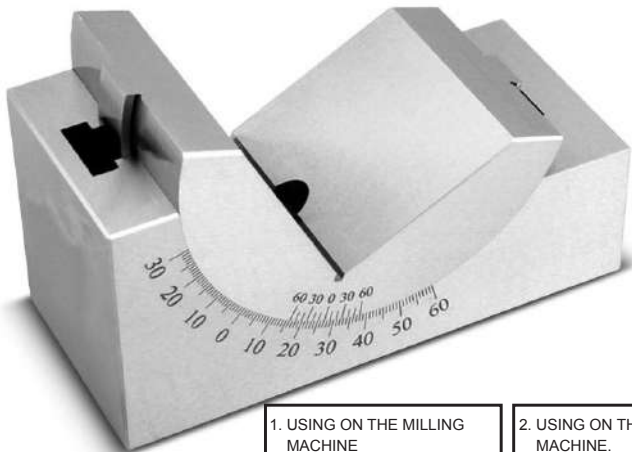
FEATURES:

- Made of magnalium, light weight, non-deform, no rusty



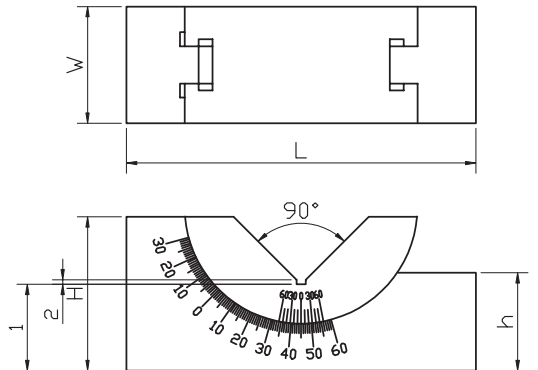
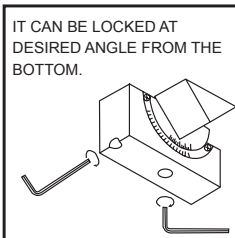
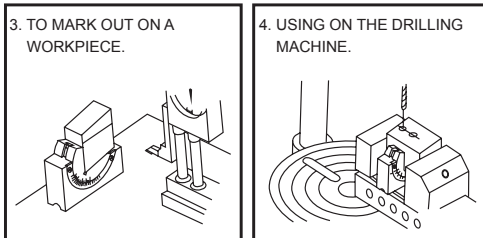
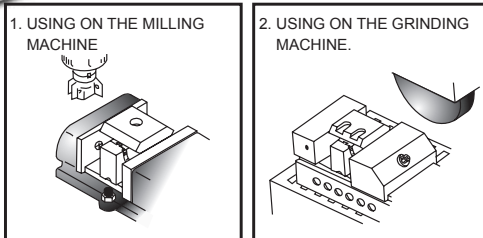
Model No.	Size mm	Flatness A and B	Parallelism A and B	Weight KG
P10043-01	500x60x30mm	0.003	0.004	0.8
P10043-02	1000x60x30mm	0.005	0.008	1.5
P10043-03	150x60x30mm	0.015	0.022	2.3
P10043-04	2000x100x40mm	0.018	0.027	6
P10043-05	3000x100x40mm	0.048	0.072	9
P10043-06	4000x150x80mm	0.064	0.13	28
P10043-07	5000x175x80mm	0.08	0.12	40

ADJUSTABLE ANGLE V BLOCK



Features

90° V-way. High carbon steel hardened to 50°-54° HRC, precision ground to within 0.005mm accuracy in squareness. Angle tolerance 30 seconds. Sets any angle 0-60°, vernier reading 10 minutes. 2 set screws provided for firmlocking at fixed angle. Hardness: HRC50°-54°
 Squareness: $\pm 0.01\text{mm}$
 Angular measures from 0°-60°

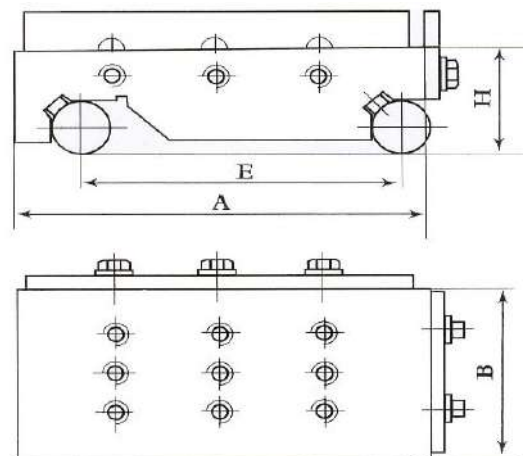


Unit:mm

Model No	L	W	H	h
PDG25	75	25	32	21
PDG30	102	30	48	28
PDG46	102	46	48	28

SINE BAR

Made by high-quality metal steel, accuracy is $5\mu\text{m}$, can make arbitrarily the examination tool of the angle, the Ra of the rough degree in surface is $0.8\mu\text{m}$.



Model No	A	B	H	E	Accuracy of δ at 30°
PSB1	130	30	40	100	± 5 seconds
PSB2	230	30	40	200	± 5 seconds
PSB3	345	40	50	300	± 8 seconds

Unit:mm

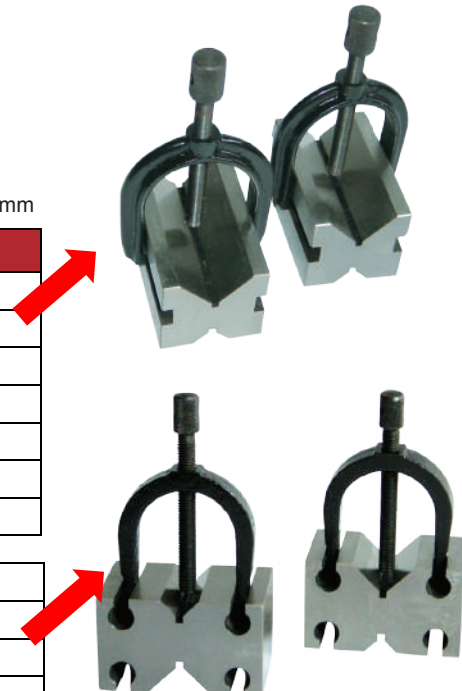
STEEL V-BLOCKS

FEATURES:

- Hold cylindrical workpieces for inspection and machining
- Two V-blocks per set
- V groove on the top for large shafts
- V groove on the bottom for small shafts

unit:mm

Model No .	Size mm	Clamp range	Accuracy mm
PWV-009	45X41X35mm	5-35mm	0.005mm
PWV-003	70x44x41mm	6-60mm	0.005mm
PWV-004	70x63x44mm	6-46mm	0.005mm
PWV-005	125x90x70mm	8-80mm	0.005mm
PWV-013	1-5/8x1-1/4x1-1/4"	5-38mm	0.0002"
PWV-014	1-3/4x1-5/8x1-3/8"	5-34mm	0.0002"
PWV-015	4-7/8x3-1/2x2-3/4"	6-75mm	0.0002"
PWN-004	70x63x44mm	6-46mm	0.005mm
PWN-005	125x90x70mm	8-80mm	0.005mm
PWN-013	2-3/4x2-1/2x1-3/4"	5-38mm	0.0002"
PWN-014	1-3/4x1-5/8x1-3/8"	5-34mm	0.0002"



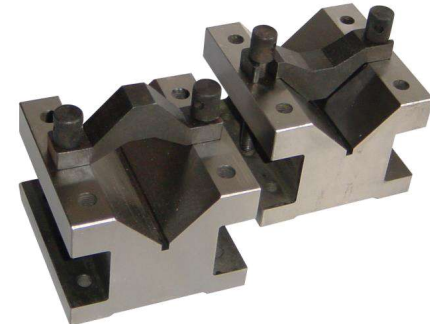
STEEL V-BLOCKS

FEATURES:

- Hold cylindrical workpieces for inspection and machining
- Two V-blocks per set
- V groove on the top for large shafts

unit:mm

Model No.	Size mm	Clamp range	Accuracy mm
PWV-016	35x35x30mm	3-16mm	0.005mm
PWV-017	60x60x50mm	5-34mm	0.005mm
PWV-018	76x102x76mm	8-66mm	0.005mm
PWV-019	105x105x78mm	8-75mm	0.005mm
PWV-020	100x150x100mm	8-80mm	0.005mm
PWV-021	1-3/8x1-3/8x1-3/16"	8-66mm	0.0002"
PWV-022	2-3/8x2-3/8x2"	5-38mm	0.0002"
PWV-023	3x4x3"	5-34mm	0.0002"
PWV-024	4-1/8x4-1/8x3-1/16"	8-66mm	0.0002"



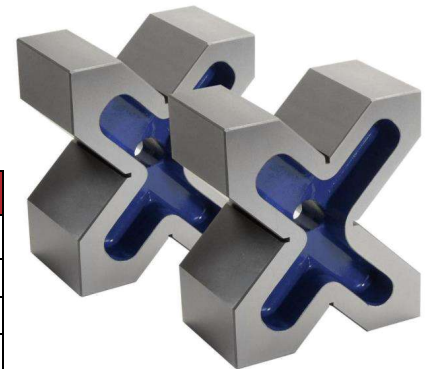
PAIR OF X TYPE V-BLOCKS

FEATURES:

- For checking, marking off and aligning cylindrical parts.
- Factory standard
- Special cast iron
- 4 x 90° grooves, different

unit:mm

Model No.	Dimensions mm	For shafts dia mm
Grade 0, parallelism tolerance < 0.008 mm, V-grooves and base finely ground		
P508-011	60 x 120 x 100	8-90
P508-012	75 x 150 x 130	10-120
P508-013	90 x 200 x 170	12-150
Grade 1, parallelism tolerance < 0.016 mm, V-grooves and base ground		
P508-111	60X120X100	8-90
P508-112	75X150X130	10-120
P508-113	90X200X170	12-150



CAST IRON V-BLOCK

FEATURES:

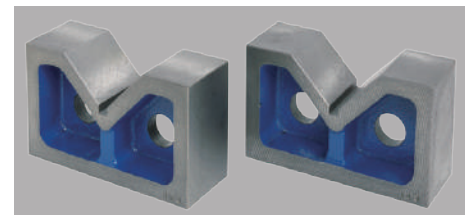
- For general engineering work or marking work.
- Tool for precise holding of round parts during measurement and production
- Cast iron
- 2pcs(matched pair)



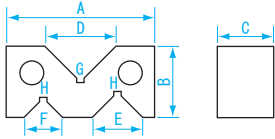
PVB-100AT



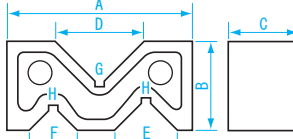
PVB-125AT



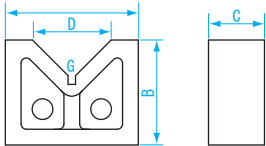
PVB-150BT



PVB-50AT ~ PVB-100AT



PVB-125AT ~ PVB-200AT



PVB-75BT ~ PVB-200BT

● DIMENSIONS

Model No.	A	B	C	D	E	F	G*	H*
PVB-50AT	50	24	20	23	17	13	4	2
PVB-75AT	75	35	24	37	24	16	4	2
PVB-100AT	100	52	33	52	32	22	4	4
PVB-125AT	125	69	44	63	37	26	5	3
PVB-150AT	150	80	50	74	45	30	5	4
PVB-200AT	200	110	70	100	60	40	5	4
PVB-75BT	75	53	30	34	-	-	2	-
PVB-100BT	100	60	38	48	-	-	5	-
PVB-125BT	125	79	46	58	-	-	5	-
PVB-150BT	150	88	57	80	-	-	5	-
PVB-200BT	200	140	85	114	-	-	5	-

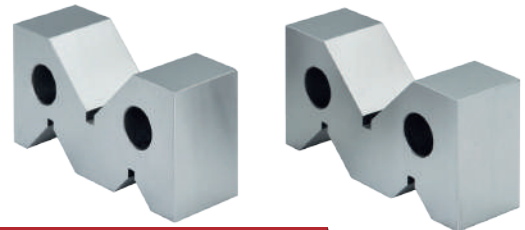
Units: mm

Type	Nominal Size (mm)	Pair groove height tolerance (mm)	Weight	
TYPE A	PVB-50AT	50	0.05	300g
	PVB-75AT	75	0.05	600g
	PVB-100AT	100	0.05	1.8kg
	PVB-125AT	125	0.06	3.4kg
	PVB-150AT	150	0.06	5.4kg
	PVB-200AT	200	0.07	12.5kg
TYPE B	PVB-75BT	75	0.05	1.1kg
	PVB-100BT	100	0.05	1.8kg
	PVB-125BT	125	0.06	3.6kg
	PVB-150BT	150	0.06	5.8kg
	PVB-200BT	200	0.07	16.2kg

CAST IRON V-BLOCK

FEATURES:

- Tool for precise holding of round parts
- Cast iron
- Ground finish
- Meet with JIS Grade 2



Model No.	Nominal Size (mm)	V Groove Squariness (μm)	Squareness of Parallel (μm)	Weight
PVK-50	50	20	20	300g
PVK-75	75	20	20	600g
PVK-100	100	30	30	1.8kg
PVK-125	125	30	30	3.4kg
PVK-150	150	30	30	5.4kg
PVK-200	200	30	30	12.5kg

PARALLEL BLOCK

- Precision parallels blocks are rectangular blocks of metal, made from alloy steel. They are used when machining with a mill, drill, or any other machining operation that requires work to be held in a vise or with clamps - to keep work parallel or raised evenly such as in a milling vise to give adequate height for the cutting tool/spindle to pass over.
- Precision ground hardneed, five 3/8"-16 tapped holes are provided operation, hardness HRC55-62



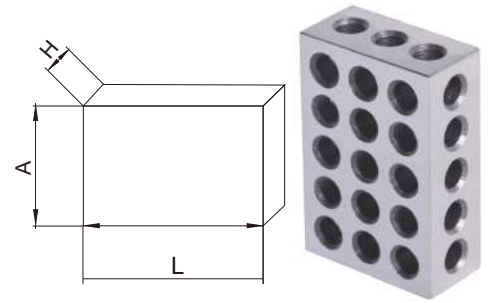
Model No.	Size (HxWxL)	Squareness	Tolerance Of Size	Holes
PBK-01	1x2x3"	0.0003"/1"	±0.0002"	23
PBK-02		0.0001"/1"	±0.0003"	

PARALLEL BLOCK

FEATURES:

- Precision ground hardened
- Hardness HRC55-62

Model No.	Size (HxWxL)	Parallel Range	Tolerance of size	Holes
ZT01-13	25x50x75mm	0.005mm	±0.0005mm	23
ZT01-14	25x50x75mm		±0.0005mm	23
ZT01-15	25x50x100mm		±0.0005mm	23
ZT01-16	50x100x150mm		±0.0005mm	23



STEEL V-BLOCKS

FEATURES:

- DIN 876/0
- Made of special steel, hardened
- 90° grooves
- Accuracy 0.008 mm

unit:mm

Model No .	Size(LxWxH) mm	Clamp range	Weight kg
PVS-001	75 x 40 x 30	5 - 40	1.8
PVS-002	100 x 47 x 30	5 - 55	3.0
PVS-003	150 x 50 x 45	5 - 60	5.6
PVS-004	200 x 65 x 55	5 - 75	11.0



STEEL V-BLOCKS

FEATURES:

- DIN 876/1
- Made of special steel, hardened
- 90° grooves
- Accuracy 0.016 mm

unit:mm

Model No .	Size(LxWxH) mm	Clamp range	Weight kg
PVS-101	75 x 40 x 30	5 - 40	1.8
PVS-102	100 x 47 x 30	5 - 55	3.0
PVS-103	150 x 50 x 45	5 - 60	5.6
PVS-104	200 x 65 x 55	5 - 75	11.0



STEEL V-BLOCKS

FEATURES:

- DIN 876/3
- Made of special steel, hardened
- 90° grooves
- Accuracy 0.064 mm

unit:mm

Model No .	Size(LxWxH) mm	Clamp range	Weight kg
PVS-301	75 x 40 x 30	5 - 40	1.8
PVS-302	100 x 47 x 30	5 - 55	3.0
PVS-303	150 x 50 x 45	5 - 60	5.6
PVS-304	200 x 65 x 55	5 - 75	11.0



STEEL V-BLOCKS

FEATURES:

- DIN 876/0 Accuracy 0.008 mm
- Made of special steel, hardened
- 90° grooves

unit:mm

Model No .	Size(LxWxH) mm	Clamp range	Weight kg
PVS-011	75 x 40 x 40	5 - 40	1.8
PVS-012	100 x 45 x 45	6 - 45	3.0
PVS-013	150 x 55 x 55	8 - 55	6.0





LEEB HARDNESS TESTER
ULTRASONIC HARDNESS TESTER
SHORE DUROMETER
DUROMETER TEST BLOCK KIT
DUROMETER TEST STAND
WEBSTER HARDNESS TESTER
BARBER HARDNESS TESTER
PORTABLE ROCKWELL HARDNESS TESTER
PORTABLE BRINELL HARDNESS TESTER
HAMMER HITTING BRINELL HARDNESS
READOUT MICROSCOPE
FRUIT HARDNESS TESTER
SAND HARDNESS TESTER
BENCH ROCKWELL HARDNESS TESTER
BRINELL HARDNESS TESTER
MICRO-VICKERS HARDNESS TESTER
VICKERS HARDNESS TESTER
UNIVERSAL HARDNESS TESTER
HARDNESS TESTER ACCESSORIES
INDENTERS
TEST BLOCKS
HARDNESS TESTER STAND



PORTABLE LEEB HARDNESS TESTER HARDY P150

The Hardy P150 measures the hardness of a large number of materials in various hardness units. Seven types of impact devices make this possible. It is equipped with a USB/RS232-cable for PC transfer

FEATURES:

- Wide measuring range with Leeb hardness testing principle
- 6 hardness units
- Large memory capacity with information about number of group, date, average value, impact device, impact times, material for every measured value
- Upper and lower limit can be preset. It will alarm automatically when the measured value exceeds the limit.
- Test at any angle, even upside down
- User calibration function
- 7 types of impact devices for specific applications optional
- Automatic identification by connection
- Large LCD-display: all functions and parameters are displayed + backlight
- PC-transfer with cable (both USB and RS232 interface) and software
- Battery capacity display - 100 hours operating time (without backlight)
- Auto power off (after 5 minutes) to save energy
- Measurements on steel, cast steel, cold work tool steel, stainless steel, gray cast iron, nodular cast iron, cast aluminium alloys, brass, bronze and wrought copper alloys Measurements on large and small hollows, bearings, heavy parts, permanently assembled parts
- Defect analysis of pressure vessels, steam generators, etc.
- Material identification of metal warehouses



TECHNICAL SPECIFICATIONS

Hardness units:	HL (Leeb), HB (Brinell), HRB (Rockwell B), HRC (Rockwell C), HV (Vickers), HS (Shore D)
Measuring range:	170 - 960 HLD
Measuring direction:	360°
Standard impact device:	D
Memory size:	48-600 groups (relative to number of impact impact times 1-32)
Statistics:	Number of group, date, average value, impact device, impact times, material, measured values
Setting of limits:	Acoustic signal by overstepping preset min. und max. limits
Minimum weight of sample:	> 5kg solid material; 2-5kg on stable surface; < 2kg with coupling paste on stable surface
Memory function:	Manually or automatically
Data transfer:	Cable (both USB and RS232-connection) und software
Languages device and manual:	English
Display:	128 × 64 Dot-Matrix-LCD
Backlight :	ON / OFF key
Battery capacity:	100 hours (without backlight)
Auto Power Off :	After 5 minutes
Power supply :	2 x 1,5 Volt-AA-batteries
Relative humidity:	≤ 90%
Working temperature:	-10°C to +40°C
Weight :	380 g (with batteries)
Size :	125 x 67 x 30mm

PORTABLE LEEB HARDNESS TESTER HARDY P400

FEATURES

- Wide measuring range. Based on the principle of Leeb hardness testing theory. It can measure the Leeb hardness of all metallic materials.
- Large screen(128×64 dot matrix LCD), showing all functions and parameters.
- Test at any angle, even upside down.
- Direct display of hardness scales HRB, HRC, HV, HB, HS, HL.
- Seven impact devices are available for special application. Automatically identify the type of impact devices.
- Large capacity memory could store 500 groups (Relative to average times32~1) information including single measured value, mean value, testing date, impact direction, impact times, material and hardness scale etc.
- Upper and lower limit can be preset. It will alarm automatically when the result value exceeding the limit.
- Battery information indicates the rest capacity of the battery and the charge status.
- User calibration function.
- Software to connect with PC via USB port.
- With EL background light.
- Thermal printer integrated, convenient for in field printing.
- NI-MH rechargeable battery as the power source. Charge circuit integrated inside the instrument. Continuous working period of no less than 150 hours (EL off and no printing)
- Auto power off to save energy.
- Outline dimensions : 212mm×80mm×32mm



APPLICATION

- Die cavity of molds
- Bearings and other parts
- Failure analysis of pressure vessel, steam generator and other equipment
- Heavy work piece
- The installed machinery and permanently assembled parts
- Testing surface of a small hollow space
- Material identification in the warehouse of metallic materials
- Rapid testing in large range and multi-measuring areas for large-scale work piece

STANDARD DELIVERY

No.	Item	Quantity	Remarks
1	Main Unit	1	
2	D type impact device	1	With cable
3	Standard test block	1	
4	Cleaning brush (I)	1	
5	Small support ring	1	
6	Battery Charger	1	9V 500mA
7	Paper for printing	1	
8	Manual	1	
9	Instrument case	1	

OPTIONAL ACCESSORY

No.	Item	Quantity	Remarks
1	Cleaning brush (II)	1	For use with G type impact device
2	Other type of impact devices and support rings		Refer to Table 3 and Table 4 in the appendix.
3	DataPro software	1	
4	Communication cable	1	

PORTABLE LEEB HARDNESS TESTER HARDY P300

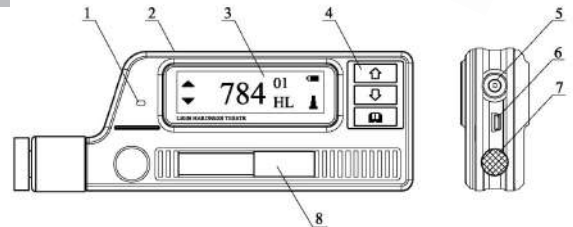
FEATURES

- OLED display of 128x32 matrix
- Converts to all common hardness scales(HV ,HB,HRC,HRB,HRA,HS).
- Easy to use Menu driven system
- With mini USB interface, multiple communication modes are adopted to meet customized requirements of various users
- Max 600 groups of data can be stored in memory
- Upper and lower limit of hardness can be preset,with alarm
- Test values software calibration function
- Working voltage: 3.7V Rechargeable Li-Ion battery
- Continuous working period: approx. 50 h
- Bluetooth included, can be connected with printer through Bluetooth
- Can be used with Impact device Type C、DC、G、D+15、DL、E
- Smart and skid proof design
- Charging indicator



STRUCTURE

- 1: Charging indicator 2: Socket of Impact Device
 3: OLED Screen 4: Function Key 5: Power Key
 6: MiniUSB Port 7: Release Button 8: Loading sheath



APPLICATION

- The assembled machinery and permanently installed parts
- Die cavity of molds
- Heavy work piece
- Failure analysis of pressure vessel, steam turbo-generator set and other large equipment
- Testing of parts in confined areas or on gear teeth
- Bearings and other parts
- Material identification of the metal material warehouse

TESTING RANGE

- Testing range table

Material	Hardness Scale					
	HRC	HRB	HRA	HB	HV	HS
Steel and cast steel	19.8 ~ 68.5	59.6 ~ 99.6	59.1~85.8	80 ~ 651	83 ~ 976	32.2 ~ 115
Hammered steel				143~650		
Cold work tool steel	20.4 ~ 67.1				80 ~ 898	
Stainless steel		46.5 ~ 101.7		85 ~ 655	85 ~ 802	
Gray cast iron				93 ~ 334		
Nodular cast iron				131 ~ 387		
Cast aluminum alloys		23.8 ~ 84.6		19 ~ 164		
Brass(copper-zinc alloys)		13.5 ~ 95.3		40 ~ 173		
Bronze (copper-aluminum/ copper-tin alloys)				60 ~ 290		
Wrought copper alloys				45 ~ 315		

STANDARD DELIVERY

No.	Appellation	Quantity
1	Main unit with D probe	1
2	Small supporting ring	1
3	Nylon brush	1
4	High value Leeb test block	1
5	USB Communication cable	1
6	USB battery charger	1
7	DataView Software	1
8	Instruction Manual	1
9	Plastic toolbox	1

OPTIONAL ACCESSORY

1	Special support ring
2	Bluetooth printer
3	Wireless data transmission module
4	DC/D+15/G/C/E/DL Impact device

PORTABLE LEEB HARDNESS TESTER HARDY P420

HIGH-PRECISION COLOR SCREEN SPLIT HARDNESS TESTER

MAKE MEASUREMENT MORE SCIENTIFIC

FEATURES 01

Probe automatic identification, plug and play (other manufacturers need to plug in the probe before the boot)

FEATURES 03

Unique full mode display, in the main interface can display all modes, take in a glance, no need to look up tables, no need to switch

FEATURES 02

The high performance ARM processor with Cortex M4 kernel is used as the main control chip, and the processing speed is fast

FEATURES 04

The impact waveform display of the target with the Proceq hardness tester can determine the validity of the test and the working state of the impact device, such as whether the probe is worn or whether there is dirt inside the casing

FEATURES 05

With USB communication interface, standard with upper computer data processing software.

FEATURES 06

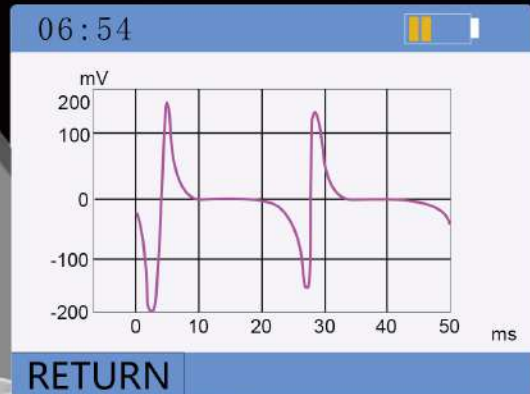
Bluetooth printing function, optional Bluetooth printer.



MULTIPLE HARDNESS VALUES CAN BE DISPLAYED IN ONE MEASUREMENT

HL 780	HRB---	HS 79.4
HB 609	HRC 58.6	HV 665

INDUSTRY-LEADING TECHNOLOGY



OPTIONAL IMPACT DEVICES

Part Name	Model No.
Impact device D	P-D1
Impact device DC	P-DC
Impact device C	P-C1
Impact device D+15	P-D15
Impact device DL	P-DL
Impact device E	P-E1
Impact device G	P-G1
Hardness test block D	P-DB
Hardness test block G	P-GB



hardness test block D



hardness test block G optional



TECHNICAL SPECIFICATIONS

Impact Device	D	DC	DL	C	D+15	E	G	
Impacting energy	11mJ	11mJ	11mJ	2.7mJ	11mJ	11mJ	90mJ	
Mass of impact body	5.5g	5.5g	7.2g	7.8g	3.0g	5.5g	20g	
Test tip hardness	1600HV	1600HV	1600HV	1600HV	1600HV	1600HV	1600HV	
Dia. Test tip	3mm	3mm	3mm	3mm	3mm	3mm	3mm	
Material of test tip	Tungsten carbide							
Impact Body								
Diameter	20mm	20mm	20mm	20mm	20mm	20mm	30mm	
Length	147mm	86mm	75mm	141mm	162mm	155mm	254mm	
Weight	50g	50g	50g	75g	80g	80g	250g	
Max. hardness of sample	940HV	940HV	940HV	1000HV	940HV	1200HV	650HB	
Average roughness Ra	1.6μm	1.6μm	1.6μm	0.4μm	1.6μm	1.6μm	6.3μm	
Min. weight of sample								
Measure directly	>5kg	>5kg	>5kg	>1.5kg	>5kg	>5kg	>15kg	
Need support firmly	2~5kg	2~5kg	0.5~1.5kg	2~5kg	2~5kg	2~5kg	5~15kg	
Need coupling tightly	0.05~2kg	0.05~2kg	0.02~0.5kg	0.05~2kg	0.05~2kg	0.05~2kg	0.5~5kg	
Min. thickness of sample								
Coupling tightly	5mm	5mm	5mm	1mm	5mm	5mm	10mm	
hardening layers	≥0.8mm	≥0.8mm	≥0.8mm	≥0.2mm	≥0.8mm	≥0.8mm	≥1.2mm	
Indentation of test tip								
Hardness 300HV	Diameter	0.54mm	0.54mm	0.54mm	0.38mm	0.54mm	0.54mm	1.03mm
	Depth	24μm	24μm	24μm	12μm	24μm	24μm	53μm
Hardness 600HV	Diameter	0.45mm	0.45mm	0.45mm	0.32mm	0.45mm	0.45mm	0.90mm
	Depth	17μm	17μm	17μm	8μm	17μm	17μm	41μm
Hardness 800HV	Diameter	0.35mm	0.35mm	0.35mm	0.30mm	0.35mm	0.35mm	
	Depth	10μm	10μm	10μm	7μm	10μm	10μm	
Error and repeatability of displayed value								
Hardness value	760±30HLD 530±40HLD	760±30HLDC 530±40HLDC	878±30HLDL 736±40HLDL	822±30HLC 590±40HLC	766±30HLD+15 544±40HLD+15	725±30HLE 508±40HLE	590±40HLG 500±40HLG	
Error of value	±6 / ±10 HLD	±6 / ±10 HLDC	±12 HLDL	±12 HLC	±12 HLD+15	±12 HLE	±12 HLG	
Repeatability	6 / 10 HLD	6 / 10 HLDC	12 HLDL	12 HLC	12 HLD+15	12 HLE	12 HLG	

OPTIONAL SUPPORTING RINGS



Model No.

PS-12A

No.	Type	Sketch of non-conventional Supporting ring	Remarks
1	Z10-15		For testing cylindrical outside surface R10 ~ R15
2	Z14.5-30		For testing cylindrical outside surface R14.5 ~ R30
3			For testing cylindrical outside surface R25 ~ R50
4	HZ11-13		For testing cylindrical inside surface R11 ~ R13
5	HZ12.5-17		For testing cylindrical inside surface R12.5 ~ R17
6	HZ16.5-30		For testing cylindrical inside surface R16.5 ~ R30
7	K10-15		For testing spherical outside surface SR10 ~ SR15
8	K14.5-30		For testing spherical outside surface SR14.5 ~ SR30
9	HK11-13		For testing spherical inside surface SR11 ~ SR13
10	HK12.5-17		For testing spherical inside surface SR12.5 ~ SR17
11	HK16.5-30		For testing spherical inside surface SR16.5 ~ SR30
12	UN		For testing cylindrical outside surface, radius adjustable R10 ~ ∞

ULTRASONIC HARDNESS TESTER ULTRA UH-7

APPLICATION

- ULTRA UH-7 manual ultrasonic hardness tester applies module design, which can work with manual probes SP-10N, SP-20N, SP-50N, SP-98N, can be used to test hardness of small forgings, cast material, weld inspection, heat affected zone, Ion-nitrided stamping dies and molds, forms, presses, thin walled parts, bearings, tooth flanks, etc
- ULTRA UH-7 can test hardness of ferrous metal, non ferrous metal and alloys, it is an ideal instrument, can test hardness of HRA, HRB, HRC, HV, HBW, HS on site, assembly line and lab.
- ULTRA UH-7 can also be upgraded with motorized probes KP-3N, KP-5N, KP-8N, KP-10N, then the function is same with UH-8 Completely accords with ASTM A1038-2005, DIN50159-1-2008

FEATURES

- Perfect Accuracy— $\pm 3\%$ HV, $\pm 1.5\%$ HR, $\pm 3\%$ HB
- Microscopic Indentation— Only high-power microscope can observe the indentation
- Quick Measurement—Result in 2 seconds
- Large LCD Display—Directly display measurement result, times count, maximum, minimal, average and deviation
- Promised Warranty—2-Year warranty for main unit (Excludes Probe)
- Mass Storage—Save 1000 groups measurement data
- Simple Calibration—Save 20 groups calibration data for invoking improve calibration efficiency



Model No.

ULTRA UH-7

Model No.	ULTRA UH-7				
Optional Probe	Manual Probe : 10N, 20N, 49N, 98N ; Motorized Probe : 3N, 5N, 8N, 10N				
Measuring Range (ASTM)	HBS:100-500; HV:100-1500; HRC:20-68; HRB:55-100; HRA:37-85; Mpa: 255-2180N/mm				
Measuring Accuracy	Scales	< 250HV	250~500HV	500~800Hv	> 800HV
	HV0.1	6	7	8	9
	HV0.3	6	7	8	9
	HV0.8	5	5	6	7
	HV1	5	5	6	7
	HV5	5	5	6	5
HV10	5	5	5	5	5
Hardness Scales	Vickers(HV);Rockwell C(HRC); Rockwell A(HRA); RockwellB(HRB);Brinell(HB)				
LCD	Color Screen				
Data Display	Loading force, Testing-times, Testing result, Average, Maximum, Minimum, Deviation and Conversion scale.				
Language	Chinese, English, German, Portugese, Turkish				
Data Output	RS232 Hyper Terminal/Bluetooth Printer				
Print	Bluetooth				
Data Storage	To save 1000-groups of measuring data and 20-groups of calibration data				
Word Input	Letters and numerals				
Working Environment	Temperature: -10°C to 50°C ; Humidity :30%-80% R.H.				
Battery Voltage	Rechargeable lithium battery ; Voltage :4.2V, 4800mAh				
Recharger Voltage	AC220V/50Hz, 110V/60Hz				
Main unit Dimension and Weight	Main unit Dimension :160 x 80 x 30mm (L x W x H); Manual Probe:Φ22×153mm ; Weight(No Probe): 0.5Kg				
Packing Dimension and Weight	Packing Dimension :320 x 430 x 155mm (L x W x H) ; Packing Weight (Standard Delivery) :4.3Kg				

STANDARD DELIVERY

Product Name	Model no.	Product Name	Model no.	Product Name	Model no.
Instrument Main Body	UH-7	20N Manual Probe	UH7-13S	Anti Vibration Case	UH7-17S
Standard Rockwell Block	UH7-10S	Probe Cable	UH7-14S	Screw	UH7-18S
USB Recharger	UH7-11S	COM Cable	UH7-15S	Operation Manual	UH7-19S
Qualification Certificate	UH7-12S	Packing List	UH7-16S	Warranty Card	UH7-20S

ANALOG DUROMETERS

- A reliable instrument for measuring the impression hardness of soft materials such as coatings, plastics and rubber. Equipped with a drag indicator, which holds the highest measured result. Delivery includes metal test block
- Optional accessories: standard rubber test blocks
Operation test stand

Model No : AD-500

FEATURES :

- Durometer type A for materials such as elastomers, vinyl, rubber, leather, pvc, silicone-rubber, teflon, neopreen, etc..
- Meet or exceed: ISO 868,ISO 7619,ASTM D2240,DIN 53505,JIS K 6253
- Range: 0 -100 points
- Accuracy: 1 point

Model No : AD-510

FEATURES :

- Durometer type C for materials such as soft rubber,foamed elastomers,wound threads etc
- Meet or exceed: ISO 7619,ASTM D 2240,DIN 53505,JIS K 7215
- Range: 0 -100 points
- Accuracy: 1 point



AD-500



AD-510



AD-520

Model No : AD-520

FEATURES :

- Durometer type D for materials such as polyester, ABS, nylon, polyurethane, kevlar, acryl, wood, polystyrene etc
- Meet or exceed: ISO 868,ISO 7619,ASTM D 2240,DIN 53505,JIS K 6253
- Range: 0 -100 points
- Accuracy: 1 point

DIGITAL DUROMETERS



PDT-809A



PDT-809D

TECHNICAL SPECIFICATIONS

Unit: mm

Model NAO.	PDT-809A	PDT-809D	PDT-809C
Test scale	Durometer type A	Durometer type D	Durometer type C
Usage	For materials such as elastomers, vinyl, rubber, leather, pvc, silicone-rubber, etc	For materials such as polyester, ABS, nylon, polystyrene etc.	For materials such as soft rubber,foamed elastomers etc.
Parameter display	Hardness result,Average value,Max.Value		
International standards	Meet or exceed: ISO 868,ISO 7619,ASTM D 2240,DIN 53505,JIS K 6253		
Measurement range	0-100HA	0-100HD	0-100HC
Measurement deviation	±1% HA	±1% HD	±1% HC
Resolution	0.5HA	0.5HD	0.5HC
Operating conditions	0°C to 40°C		
Power supply	1.5V cell(SR44/LR44) battery		
Battery indicator	low battery indicator		

DIGITAL DUROMETER

PDT-808A



PDT-808D



TECHNICAL SPECIFICATIONS

Model No.	PDT-808A	PDT-808D
Test scale	Durometer type A	Durometer type D
Usage	For materials such as elastomers, vinyl, rubber, leather, PVC, silicone-rubber, etc	For materials such as polyester, ABS, nylon, polystyrene etc.
Parameter display	Hardness result, Average value, Max. Value	
International standards	Meet or exceed: ISO 868, ISO 7619, ASTM D 2240, DIN 53505, JIS K 6253	
Measurement range	0-100HA	0-100HD
Measurement deviation	$\leq \pm 1\% \text{ HA}$	$\leq \pm 1\% \text{ HD}$
Resolution	0.5HA	0.5HD
Operating conditions	0°C to 40°C	
Power supply	1.5V cell (SR44/LR44) battery	
Battery indicator	low battery indicator	

DIGITAL DUROMETER Hardy D400



TECHNICAL SPECIFICATIONS

Model No.	Indenter	Typical Examples of Materials Tested	Hardness values
Shore A Hardy D400	0.79 Truncated (frustum) cone	Soft vulcanized rubber, natural rubber, nitriles, thermoplastic elastomers, flexible polyacrylics and thermosets, wax, felt, and leathers.	20~90A
Shore B Hardy D410	R0.1 Cone	Moderately hard rubber, thermoplastic elastomers, paper products, and fibrous materials.	Above 90A Below 20D
Shore C Hardy D420	0.79 Truncated (frustum) cone	Medium-hard rubber, thermoplastic elastomers, medium-	Above 90B Below 20D
Shore D Hardy D430	R0.1 Cone	Hard Rubber, thermoplastic elastomers, harder plastics, and very dense textile windings.	Above 90 A
Shore DO Hardy D440	R1.2 Spherical radius	Moderately hard rubber, thermoplastic elastomers, and very dense textile windings.	Above 90 C Below 20 D
Shore O Hardy D450	R1.2 Spherical radius	Soft rubber, thermoplastic elastomers, very soft plastics and thermoplastics, medium-density textile windings.	Below 20 DO
Shore E Hardy D460	R2.5 Spherical radius	Hard sponge, EVA	Above 90 DO Below 20 A
Shore OO Hardy D470	R1.2 Spherical radius	Extremely soft rubber, thermoplastic elastomers, sponge, extremely soft plastics and thermoplastics, foams, low-density textile windings.	Below 20 O

DUROMETER TEST BLOCK KIT

- Durometer testblock kit with different values of hardness. As a reference check it will indicate if a durometer is operating within tolerances. The individual test blocks are provided with serial numbers to guarantee incontestable identification

PDT-813A 7-PIECE-SHORE A MASTER TEST BLOCK KIT

FEATURES:

- The kit consists of color coded test blocks:
Purple 32 Claret 39 Green 52 Orange 61
Red 71 Yellow 80 Gray 88
- Note: The side with "HA" mark is the standard detected side. The indicated readings are derived from an average of 6 readings taken with our standard durometer calibrated regularly. For periodic verification of calibration accuracy, take an average of 3 readings in different spots on each test block. The result should be approximate to those shown.

PDT-813A



PDT-813D 3-PIECE-SHORE D MASTER TEST BLOCK KIT

FEATURES:

- The kit consists of 3 color coded test blocks:
Orange 13 Gray 30 Black 90
- Note: The indicated readings are derived from an average of 6 readings taken with our standard durometer calibrated regularly. For periodic verification of calibration accuracy, take an average of 3 readings in different spots on each test block. The result should be approximate to those shown. Results comparisons may vary between durometers with non-similar configurations.

PDT-813D



DUROMETER TEST STAND

- The Durometer test stand is suitable for durometer type A,C and D only. The test stand construction includes operating handle, adjustable glass stage, (height) adjustable Durometer fixture. With this test stand hardness tests of rubber or plastics with a Durometer can be performed more accurately and reproducibly.

PDT-800A



PDT-800A (use for durometer type A,C)

FEATURES:

- Dimensions: 160 x 116 X 340 mm
- Weight: 1 kg
- Scope of supply: Test stand with weight.

PDT-800D (use for durometer type D)

FEATURES:

- Dimensions: 160 x 116 X 430 mm
- Weight: 5 kg
- Scope of supply: Test stand with weight.



PDT-800D

WH WEBSTER HARDNESS TESTER

WH Webster hardness tester is a portable instrument which can on-site test soft metals quickly. The Webster Hardness Tester is used to inspect the result of heat treatment, to sort the materials in the warehouse, and to test the long workpieces inconvenient taken to the lab. The Webster hardness tester is very suitable for quality inspection of batch products one by one in the production field. The hardness value can be read directly on the indicator dial.

A test can be completed by one press

- Models for testing brass, copper and mild steel respectively
- Modification models for testing thick pieces or slim tubings
- Tests sheets, extrusions, pipes
- Very fast, very simple and very portable
- Small indentation
- Conforms to ASTM B647



MODEL No.	Dimension of specimen	NET WEIGHT	APPLICATIONS
WH-20	0.4 - 6mm	0.5KG	regular type for aluminum alloy profile, pipe and sheet
WH-20A	0.4 - 13mm	0.5KG	thick wall aluminum alloy material
WH-20B	Min Dia: 6	0.5KG	aluminum alloy pipe of small diameter and aluminum alloy
WH-B75	Thickness:0.4-6mm	0.5KG	Extra-hard aluminum, brass
WH-B75B	Min Dia : 6mm	0.5KG	Slim extra-hard aluminum or brass pipe
WH-B92	0.4 – 6mm	0.5KG	Soft steel materials not exceeding 230 HV, such as cold rolled sheet, hot rolled sheet and galvanized sheet etc.
WH-BB75	0.4 – 6mm	0.5KG	Copper and soft copper alloys such as annealed brass
WH-BB75B	Min Dia : 6mm	0.5KG	Copper or annealed brass pipe

WH WEBSTER HARDNESS TESTER

APPLICATION

- To determine whether the workpiece has been heat treated, to check the effect of heat treatment
- To determine whether the workpiece has an improper alloy processing
- To test the workpiece which is inconvenient to the laboratory(too long, overweight workpiece or assembly parts)
- Used for production inspection, acceptance inspection and quality supervision and inspection
- Mainly used for measuring aluminum alloy (1100~7075 Series) hardness

TECHNICAL SPECIFICATION

- Hardness Measuring range: 0 ~ 20HW (aluminum and aluminum alloy 20 ~ 110HRE)(Copper Alloy 60 ~ 90 HRF)
- Measuring accuracy:±0.5HW
- Display resolution:0.1HW

MODEL SELECTION

Model No.	Sample Size/Diameter(mm)
DW-20	Thickness≤6 (Plate);Inner diameter≥10(Pipe)
DW-20a	Thickness≤13(Plate);Inner diameter≥10(Pipe)
DW-20b	Thickness≤8 (Plate);Inner diameter≥6(Pipe)

STANDARD DELIVERY

Part name	Qty	Part name	Qty
Host	1	Standard hardness block	2
Charger	1	Adjustment nut special spanner	1
Li battery	1	Manual	1



OPERATION PRINCIPLE

Digital display Webster hardness tester is a kind of indentation hardness tester. Under certain pressure, the pressure needle into the sample surface, the pressure is inversely proportional to the depth and material hardness.

Webster's hardness with symbol HW said.

For range of samples, after strength numerical still shows 20.0; For the low range of sample, numerical display strength after 00.0.

BARBER HARDNESS TESTER BHT

INTRODUCTION

- A portable indentation hardness tester. Single hand operation; no operating experience required, can test any workpiece which is reachable in any site. Wide valid testing range equivalent to Brinell hardness 25-150 HBW. Used to test the hardness of all kinds of aluminum, from very soft aluminum to very hard aluminum alloys. Extended application. Model BHT is applied to test the hardness of aluminum, aluminum alloys, copper, copper alloys, fiber reinforced plastics and rigid plastics etc. The improved model of it is available to test very soft metals such as lead and tin and other soft materials such as soft plastics, rubber, felt and leather etc. High sensitivity. Featured with 100 scales, much more sensitive than Webster hardness testers applied in aluminum alloys industry. No supporting required. Can test from only one side of the workpiece. No need to move or support the workpiece. Used to test super large and thick workpieces and assembly parts. Easy conversion. The test results can be converted to HB, HR, HV and HW easily through conversion table. Comply to standard ASTM B648-2000.



BARBER HARDNESS TESTER BHT

APPLICATION

- Barcol Impressor is mainly applied to test aluminum and aluminum alloys. Webster is used to test aluminum alloy extrusions, sheet and tubings. Barcol Impressor is suitable to test pure aluminum, soft aluminum alloys, super thick aluminum alloys, aluminum alloys bars and assembled aluminum alloys parts (e.g. al-alloy door & window, scaling ladder etc.) Relevant Standard: ASTM B648 (Test Method for Indentation Hardness of Aluminum Alloys by Means of a Barcol Impressor)
- Barcol Impressor is also used to test fiber reinforced plastics and rigid plastics etc. Relevant Standard: ASTM D2583-07 (Test Method for Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor)
- The improved models of Barcol Impressor are available to test softer plastics, very soft metals, rubber and leather etc.

TECHNICAL SPECIFICATIONS

Model No.	BHT
Indenter	26° panhead cone, head face diameter 0.176mm
Testing Range	0~100HBa, equivalent to 25~150HBW
Resolution	0.5HBa
Indication error	hardness range 42~52HBa, ± 2HBa hardness range 84~88HBa ± 1HBa
Repeatability error	hardness range 42~52HBa, ± 2HBa hardness range 84~88HBa ± 1HBa
Net weight	0.5kg



STANDARD DELIVERY

	Quantity	Standard Delivery	Quantity	Standard Delivery	Quantity
Main unit	1	Calibration wrench	1	Accessories Box	1
High value hardness block	1	Low value hardness block	1	Spare indenters	1

DIGITAL BARBER HARDNESS TESTER BH-110

FEATURES:

- It is mainly used in aluminum processing industry, testing pure aluminum, soft aluminum, thick aluminum alloy, aluminum strip, aluminum rod, aluminum castings, aluminum forgings and aluminum alloy products. Also, it can be used for glass steel industry.
- It is characterized in that provided with a balance positioning, a digital display of hardness value, and a non disassembly calibration and adjusting.
- It is with good stability, convenient calibration, and high accuracy of detection.
- Small in size, portable. Single hand operation, easy to use. Can be used in any occasion as long as the hand can reach.
- Wide test range, can test from very soft pure aluminum to a particularly hard aluminum alloy. effective test range equivalent to the Brinell Hardness of 25~150HB.
- No need to be supported. Just test on one side of the sample with the hardness tester, no need to be supported. It is suitable for the test of large and extra thick workpiece.
- With the maximum hold function, recording the maximum hardness value during measurements.
- Can be used for measuring Barcol Hardness, other hardness value can be calculated out by the experimental curve. Such as Brinell Hardness (HB), Vickers Hardness (HV), Webster Hardness (HW), Rockwell Hardness (HRB/HRE/HRF/HRH).
- Provide Bluetooth data output choice.



TECHNICAL SPECIFICATION

Range	0~100Hba, Amount to 25~135HBW
Resolution	0.1HBa
Indication Error	81~88HBa ±1HBa
	42~48HBa ±2Hba
Repeatability Error	81~88HBa ±1.5HBa
	42~48HBa ±2.5HBa
Maximum Hold	√
Operating Condition	Temperature: 0~50°C
	Humidity: <80%RH
Power Supply	2 x 1.5 V AAA (UM-4) Battery
Weight	390g (Not Including Batteries)

STANDARD DELIVERY

- Main Unit
- 2 Pins
- 2 Standard Blocks
- Pin Length Calibration Block
- Screw Driver
- Spanner
- Carrying Case
- Operation Manual

OPTIONAL ACCESSORY

- Bluetooth data out put with software

DIGITAL BARBER HARDNESS TESTER BH-120

FEATURES

- It is mainly used in aluminum processing industry, testing pure aluminum, soft aluminum, thick aluminum alloy, aluminum strip, aluminum rod, aluminum castings, aluminum forgings and aluminum alloy products. Also, it can be used for glass steel industry
- It is characterized in that provided with a balance positioning, a digital display of hardness value, and a non disassembly calibration and adjusting
- It is with good stability, convenient calibration, and high accuracy of detection
- Small in size, portable. Single hand operation, easy to use. Can be used in any occasion as long as the hand can reach
- Wide test range, can test from very soft pure aluminum to a particularly hard aluminum alloy. effective test range equivalent to the Brinell Hardness of 25~150HB
- No need to be supported. Just test on one side of the sample with the hardness tester, no need to be supported. It is suitable for the test of large and extra thick workpiece
- With the maximum hold function, recording the maximum hardness value during measurements
- Can be used for measuring not only Barcol Hardness, but also Brinell Hardness (HB), Vickers Hardness (HV), Webster Hardness (HW), Rockwell Hardness (HRB/HRE/HRF/HRH)
- With the function of calculating the average value, can calculate the average value of the 29 sets of data at most
- Provide Bluetooth data output choice



SPECIFICATION

Range	0~100HBa, Amount to 25~135HBW
Resolution	0.1HBa
Indication Error	81~88HBa ± 1 HBa
	42~48HBa ± 2 HBa
Repeatability Error	81~88HBa ± 1.5 HBa
	42~48HBa ± 2.5 HBa
Brinell Hardness	√
Vickers Hardness	√
Webster Hardness	√
Rockwell hardness	√
Maximum Hold	√
Average Calculation	√
Operating Condition	Temperature: 0~50°C
	Humidity: <80%RH
Power Supply	2 x 1.5 V AAA (UM-4) Battery
Weight	390g (Not Including Batteries)

STANDARD DELIVERY

- Main Unit
- 2 Pins
- 2 Standard Blocks
- Pin Length Calibration Block
- Screw Driver
- Spanner
- Carrying Case
- Operation Manual

DIGITAL MAGNETIC ROCKWELL HARDNESS TESTER HR-200



TECHNICAL SPECIFICATION

Preload: 10 kg
 Main charges: 60/100/150 kg
 Testing range: 20~88HRA, 20~100HRB, and 20~70HRC
 Digital measurement of the force with a high precision / stability load cell, test force error: $\leq \pm 1\%$
 Digital measurement of the depth, resolution: 0.1 HR
 Surface of contact:
 - flat, min: 60x195 mm, thickness ≥ 5 mm
 - cylindrical, min. $\varnothing \times L$: 60x200 mm, thickness ≥ 8 mm
 Operating temperature: 0~50°C
 Weight
 - hardness tester: 5.3 kg
 - complete with carrying case: 10.0 kg
 Dimensions carrying case: 480x390x210 mm
 Accuracy & repeatability: EN ISO 6508 & ASTM E18 standards

FEATURES

- Portable digital hardness tester for the measurement of Rockwell hardness according to standards EN ISO 6508 & ASTM E18
- Fixation of the test head on the surface of iron and steel parts by applying a magnetic force
- Test of pieces of big sizes or when the clamping is not possible or too complicate
- As simple to use as a micrometer: the operator applies the preload using the crank with help of the LCD display indicating the true load, increases the load and returns to preload. The LCD display directly the hardness

STANDARD DELIVERY

Hardness tester
 Cone 120 ° diamond Indenter
 Penetrator ball 1/16 "
 3 blocks to calibration
 Base for test block
 Adapter for cylindrical surfaces
 Battery pack
 Recharger
 Carrying case

MAGNETIC ROCKWELL HARDNESS TESTER HR-100



TECHNICAL SPECIFICATION

Preload: 10 kg
 Main charges: 60/100/150 kg
 Resolution: 0.5 HR
 Surface of contact:
 - flat, min: 60x180 mm, thickness ≥ 5 mm
 - cylindrical, min. $\varnothing \times L$: 60x200 mm, thickness ≥ 8 mm
 Weight
 - hardness tester: 4.7 kg
 - complete with carrying case: 10.0 kg
 Dimensions carrying case: 480x390x210 mm
 Accuracy & repeatability: EN ISO 6508 & ASTM E18 standards

STANDARD DELIVERY

Hardness tester
 Cone 120 ° diamond Indenter
 Penetrator ball 1/16 "
 3 blocks to calibration
 Base for test block
 Adapter for cylindrical surfaces
 Carrying case

ROCKWELL HARDNESS TESTER HR-1/2



FEATURES

- Small and light. Min weight 0.8Kg
- Operation as simple as micrometer.
- Convenient , Used on table or take off.
- Reliable. Designed by Rockwell hardness test method.
- As accurate as desk testers. Complying with ISO 6508 and ASTM E18. Traceable standard block.
- Traceable test force.

TECHNICAL SPECIFICATION

Preload: 10 kg
 Main charges: 60/100/150 kg
 Resolution: 0.5 HR
 Swan neck openingsize: 25x25 mm
 Weight
 - hardness tester: 0.8 kg
 - support: 1.5 kg
 Dimensions: 330x255x150 mm

STANDARD DELIVERY

Hardness tester
 Table stand
 Cone 120 ° diamond Indenter
 Penetrator ball 1/16 "
 3 blocks to calibration
 Flat anvil
 V anvil
 Extension
 Carrying case

Model No.	Opening size W*D (mm)	Net weight (Kg)		Gross Weight (Kg)		Package dimensions (mm*mm*mm)	
		Tester	Bench stand	tester	Bench stand	Tester	Bench stand
HR-1	25*25	0.8	1.5	2.8	1.8	330*255*150	215*148*232
HR-2	50*50	1.2	1.5	3.7	1.8	390*280*160	215*148*232

SUPERFICIAL ROCKWELL HARDNESS TESTER



FEATURES

- Portable hardness tester for the measurement of Super Rockwell hardness according to standards EN ISO 6508 & ASTM E18
- Small and light, weight only 0.8 kg

TECHNICAL SPECIFICATION

Preload: 3 kg
 Main charges: 15/30/45 kg
 Resolution: 0.5 HR
 Swan neck openingsize: 25x25 mm
 Weight
 - hardness tester: 0.8 kg
 - support: 1.5 kg
 Dimensions: 330x255x150 mm

STANDARD DELIVERY

Hardness tester
 Table stand
 Cone 120 ° diamond Indenter
 Penetrator ball 1/16 "
 3 blocks to calibration
 Flat anvil
 V anvil
 Extension
 Carrying case

Model No.	Opening size W*D (mm)	Net weight (Kg)		Gross Weight (Kg)		Package dimensions (mm*mm*mm)	
		Tester	Bench stand	Tester	Bench stand	Tester	Bench stand
HR-1S	25*25	0.8	1.5	2.6	1.8	330*255*150	215*148*232
HR-2S	50*50	1.1	1.5	3.6	1.8	390*280*160	215*148*232
HR-1ST	Dia>4.8	0.8	1.5	2.0	1.8	330*255*150	215*148*232

DIGITAL MAGNETIC BRINELL HARDNESS TESTER 187,5 KG HB-200



TECHNICAL SPECIFICATION

Test force: 187,5 kg
 Indenter: Ø 2.5 mm carbide ball
 Digital measurement of the force with a high precision / stability load
 cell, test force error: $\leq \pm 1\%$
 Complies with ASTM E10, ISO6506
 Surface of contact:
 * flat, min: 60x195 mm, thickness ≥ 5 mm
 * cylindrical, min. ØxL: 60x200 mm, thickness ≥ 8 mm
 Lighting of the test area
 Operating temperature: 5~45°C
 Weight
 * hardness tester: 5.1 kg
 * complete with carrying case: 10.0 kg
 Nominal dimension (LxDxH): 245×105×138mm
 Dimensions carrying case: 480x390x210 mm
 Accuracy & repeatability: EN ISO 6506 & ASTM E10 standards

FEATURES

- With the magnetic chucks, fix the HB-200 Digital Brinell Hardness Tester on the specimen surface and finish testing. It is completely based on the Brinell test principle, and the test method complies with ASTM E10, ISO6506.
- Fixation of the test head on the surface of iron and steel parts by applying a magnetic force
- Being used together with the Brinell indentation measurement system, it can be applied to quick and precise test of specimen's Brinell hardness on site.
- Applied to steel parts that too large or too heavy for table tester to test.
- Applied to testing heat treatment parts such as steel plate, pipe, mould with available testing surface.
- Applied to testing the hardness of weld joint on boilers, pressure vessels and pressure pipes.
- As simple to use as a micrometer: the operator applies the preload using the crank with help of the LCD display indicating the true load, increases the load and returns to preload. He can then measure the indentation with a measuring microscope.
- the HB-200 tester could replace the Leeb hardness tester which is in low accuracy and reliability.

STANDARD DELIVERY

Hardness tester
 Ø 2.5 carbide ball indenter
 2 blocks to calibration
 40x measuring microscope
 Base for test block
 Battery pack
 Recharger
 Carrying case

MAGNETIC DIGITAL BRINELL ROCKWELL HARDNESS TESTER HBR-200



TECHNICAL SPECIFICATION

Initial test Force: 10kg
 Total Test Force: 60kg, 100kg, 150kg, 187.5kg
 Testing Range: 20-88HRA, 20-100HRB, 20-70HRC, and 150-450HBWT
 Testing Resolution: 0.1HR or 1HBW
 Indication Error: complying with ISO, ASTM standards
 Repeatability Error: complying with ISO, ASTM standards
 Test Force Error: $\leq 1\%$
 Operating Temperature: 5-45°C
 Net Weight: 5.3kg
 Test Piece Surface: Flat
 Area $\geq 195\text{mm} \times 60\text{mm}$, Thickness $\geq 5\text{mm}$
 Cylinder:
 Diameter $\geq 60\text{mm}$, Length $\geq 200\text{mm}$, Thickness $\geq 8\text{mm}$

STANDARD DELIVERY

Tester, 120° Diamond Indenter, 1.588mm Carbide Alloy Ball Indenter, 2.5mm Carbide Alloy Ball Indenter, Rockwell Hardness Block, Brinell Hardness Block, 40X Reading Microscope, Seat Iron, Recharger, Battery Box, Carrying Case

BRINELL HARDNESS TESTER PBX-0.5



TECHNICAL SPECIFICATION

Measuring range: 100-400HBS
 Impact capacity: 4.9J
 Dimensions: $\Phi 55 \times 370\text{mm}$
 Weight: approx. 3.3kg

Main accessories

Brinell standardized block: 1 pc.
 20X Readout microscope: 1 pc.

HAMMER HITTING BRINELL HARDNESS TESTER BH-PBC



TECHNICAL SPECIFICATION

Measuring range: $< 450 \text{ HBS}$
 Diameter of steel ball: $\Phi 10\text{mm}$
 Dimensions: $\Phi 25 \times 110\text{mm}$
 Weight: approx. 0.5kg

Main accessories

Brinell standardized block: 2 pcs.
 20X Readout microscope: 1 pc.

READOUT MICROSCOPE BH-20/40



APPLICATION

Designed for determining the diameter of indentation in Brinell hardness testing. They can also be used for measuring the width and length of scale mark, slit, key slot and dent, as well as checking metal case quality, density of fibre and field specimens, etc.

TECHNICAL SPECIFICATION

Model	BH-20	BH-40
Specifications		
Magnification	20X	40X
Effective field number (mm)	6	3
Dimensions mm	70 x 50 x 155	70 x 50 x 187
Weight (kg)	0.5	0.6

CHAIN / HYDRAULIC BRINELL HARDNESS TESTER BH-3000C



CHAIN TYPE BH-3000P



APPLICATION

On-site test of steel products, nonferrous metal, castings, forgings, and semi-finished heat treatment parts.

Applied to too large parts for desk testers to test. Replace Leeb testers which are in low accuracy and reliability.

Indentation could be read by indentation automatic measurement system and hardness valves displayed directly.

HYDRAULIC TYPE BH-3000C

FEATURES

Test principle:

Apply hydraulic principle permitting loading 3,000Kgf manually.

On-site Testing:

It could be applied in workshop, simple operation, easy carrying, and testing body hardness of large parts piece by piece.

Permanent Indentation:

By 3,000Kgf and 10mm test ball, the indentation is permanent for re-inspecting.

High Reliability:

It follows Brinell hardness test method completely, the same as desk testers, reflecting the actual mechanical property of material or parts.

High Accuracy:

Indication error, repeatability error and test force accuracy comply with ISO, and ASTM standards, the same as desk testers.

Wide Application Range:

As long as clamped to the parts, it could test parts in any shape and size.

Wide Test Range:

It could test various common metal materials by its combination of different test force and test head, that is, wide test range.

TECHNICAL SPECIFICATION

Test Force	3000kg (1000kg, 750kg, 500kg optional)
Test Ball	10mm Carbide alloy test ball (5mm optional)
Test Range	32-650HBW
Opening Dimension	350mm (Height) x 100mm (Throat depth)
Indicator Error	complies with ISO 6506, and ASTM E1 O.
Repeatability Error	complies with ISO 6506, and ASTM E1 O.
Test Force Error	complies with ISO 6506, and ASTM E10.
Weight	14 kg. Approx.

STANDARD DELIVERY

Hardness tester, load handle, brinell hardness block, 20X reading microscope, 10mm spare carbide alloy test ball, chain measuring frame, 1.3m chain

PORTABLE BRINELL HARDNESS TESTER



BH-150

TECHNICAL SPECIFICATION

Test force 1580 kgf
 Indenter:
 * 7.26mm steel ball indenter, test range 100~350 HBW
 * 4mm carbide ball indenter, test range 350~650 HBW
 Measurement error: ≤ 2~3% conforming to ISO, ASTM
 Repeatability error: ≤ 2~3% conforming to ISO, ASTM
 Opening dimension: 150mm (height) x 100mm (throat depth)
 Net weight: 4.2 kg

STANDARD DELIVERY

Frame with clamping screw
 Crank
 Impact body with pin housing
 Steel ball Ø 7.26 mm
 Box of 250 pins
 Pin ejector / cleaner
 Flat anvil
 V anvil
 20x microscope
 Transport case



BH-1

TECHNICAL SPECIFICATION

Test force 1580 kgf
 Indenter:
 * 7.26mm steel ball indenter, test range 100 ~ 350 HBW
 * 4mm carbide ball indenter, test range 350 ~ 650 HBW
 Measurement error: = 5% conforming to ISO, ASTM
 Repeatability error: = 5% conforming to ISO, ASTM
 Net weight: 0.8 kg

STANDARD DELIVERY

Impact body with pin
 Grab handle
 Steel ball Ø 7.26 mm
 Box of 250 pins
 Pin ejector / cleaner
 20x microscope
 Transport case

Model No	Opening Size (WxDmm)	Net Weight (kg)	Gross Weight (kg)	Package Dimensions (mm×mm×mm)	Remarks (mm)
BH-150	150×100	4.2	11.6	705×375×205	Static& Hammer impact
BH-1	No limitation	0.8	3.8	510×375×177	Hammer impact

Set of 250 shear pins for BH-1/150



Model No.

BH-151



FRUIT HARDNESS TESTER GY-1/2/3



FEATURES

The hardness of fruit can express by the unit area(S) could undertake the pressure of dynamometer(N), their specific value is just as the hardness(P).
 $P = N / S$
 P—the hardness value of fruit 105Pa or (kg/cm²)
 N— pressure of dynamo-meter (N) N or (kg)
 S—the area of pressure m² or (cm²)
 GY-1 for hard fruit
 GY-2 for soft fruit
 GY-3 for hard ans soft fruit

WHOLE PARAMETER

TECHNICAL SPECIFICATION

MODEL	GY-1	GY-2	GY-3	
SCALE DISPLAY	2~15KG/CM2 (X10 ⁵ PA)	0.5~4KG/CM2 (X10 ⁵ PA)	0.5~12KG/CM2 (X10 ⁵ PA)	1~24KG/CM2 (X10 ⁵ PA)
PROBE SIZE	Φ3.5mm	Φ3.5mm	Φ11mm	Φ8mm
Probe length	32.15mm	32.15mm	37.38mm	37.38mm
DIVISION VALUE	0.1KG/CM2 (X10 ⁵ PA)	0.02KG/CM2 (X10 ⁵ PA)	0.1KG/CM2 (X10 ⁵ PA)	0.02KG/CM2 (X10 ⁵ PA)
Press in depth	10MM			
NET WEIGHT	0.15KG			

APPLY TO

Hard fruit

Soft fruit

Soft / hard fruit is OK

SAND HARDNESS TESTER SYS

TECHNICAL SPECIFICATION

Model: B type
 Compression stroke: 2.50mm
 Maximum load: 980G
 Load under pressure: 50g
 Head shape and size: Ball R12.70
 Accuracy:
 When the pointer is at any value, the relative force of the pressure head is equal to + 5%
 When the pointer goes back to the 0 bit, the tolerance is 1 degrees
 Size: 90 x 55 x 28mm



MANUAL ROCKWELL HARDNESS TESTER RH-120

FEATURES:

- RH-120 is an effective Rockwell testing machine with high accuracy, reliability and durability, and it is applied in the workshops and measurement departments for determining the Rockwell hardness of ferrous and non-ferrous metals.
- Standards: ISO 6508-2, ASTM E18

TECHNICAL SPECIFICATION

Rockwell Scales	HRA, HRB, HRC
Preliminary test force	10Kgf(98.07N)
All Testing Force	60Kgf (588N), 100Kgf (980N), 150Kgf (1471N)
Hardness Indication	Analogue
Hardness analogue resolution	0.5HR
Max.height of specimen	170mm
Max. depth of specimen	140mm
Dimension (L*W*H)	520*240*700MM
Gross/Net Weight	120/90Kg
Power Supply	110V/220V,60/50Hz

Remark: Optional protective indenter device



STANDARD DELIVERY

Main unit	1SET	Ø1.588mm ball indenter	1PC	Ø55mm flat anvil	1PC
Hardness block (57-70) HRC	1PC	Ø1.588mm spare ball	5PCS	Ø150mm flat anvil	1PC
Hardness block (20-33) HRC	1PC	Cone diamond indenter	1PC	Operation Manual	1COPY
Hardness block (85-100) HRB	1PC	Ø55mm V-shape anvil	1PC	Accessories box	1PC

MANUAL ROCKWELL HARDNESS TESTER RH-100

Standards: ISO 6508-2, ASTM E18

TECHNICAL SPECIFICATION

Measuring range: 20-88HRA, 20-100HRB, 20-70HRC Test force: 588.4, 980.7, 1471N (60,100,150kgf) Max. height of test piece: 170mm

Depth of throat: 135mm

Dimensions: 466 x 238 x 630mm Weight: approx. 65kg

STANDARD DELIVERY

Large flat anvil: 1 pc.

Small flat anvil: 1 pc.

V-notch anvil: 1 pc.

Diamond cone penetrator: 1 pc

1/16" steel ball penetrator: 1 pc.

Rockwell standardized block: 3 pcs.



DIGITAL ROCKWELL HARDNESS TESTER RH-300



FEATURES:

RH-300 Digital Rockwell hardness tester adopts the high resolution color touch screen with high brightness display. It has a good reliability, excellent operation and easy watching, so it is a high-tech product combining the mechanic and electric features. It can show and set the present scale, test force, test indenter, dwell time and hardness conversion; the main function is as follows:

- Selection of all the Rockwell scales;
- Conversion scales of different kinds of hardness;
- Display backlight adjustable with energy saving mode;
- Real time data saving in the folder, totally six folders, the data can be arbitrary deleted and printed out;
- Test results can be saved in real time with automatic calculation of maximum, minimum and average value;
- The interface is visual and clear, very easy to operate;
- With RS232 interface for connecting to the computer.

APPLICATION

Suitable for quenched steel, tempered steel, annealed steel, cold and hard casting, malleable cast iron, hard alloy steel, aluminum alloy, copper alloy, bearing steel etc.

TECHNICAL SPECIFICATION

Initial test Force	10kgf(98.07N)
Total test force	60kgf(588.4N) 100kgf(980.7N) 150kgf(1471N)
Loading method	Automatic (Loading/Dwell/Unloading)
Hardness reading	Touch Screen Display
Test scale	HRA, HRD, HRC, HRF, HRB, HRG, HRH, HRE, HRK, HRL, HRM, HRP, HRR, HRS, HRV
Conversion scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HBW
Data output	Built-in Printer, RS232 Interface
Resolution	0.1HR
Dwell time	0~60s
Max. Height of Specimen	175mm
Throat	165mm
Execute Standard	ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2
Power source	AC220V, 50Hz
Dimension (mm)	520×215×700 Packing Dimension: 650×370×950
Weight (kg)	Net Weight: 78 Gross Weight: 100

STANDARD DELIVERY

● Main unit	1pc
● Diamond rockwell indenter	1pc
● ϕ 1.588mm ball indenter	1pc
● Large, middle plane test table, V-shaped test table	1pc(each) Total 3pcs
● Standard hardness test block	2 pcs
● Fuse 2A	1 pc
● Power cable	TOTAL 3 pcs
● Weight A, B, C	1 pc
● Level	4 pcs
● Horizontal regulating screw	1 pc
● Inner hexagon spanner	1 pc
● Spanner	1 pc
● Anti-dust cover	
● Usage instruction manual	

DIGITAL TWIN ROCKWELL HARDNESS TESTER RH-530



FEATURES

RH-530 Digital double Rockwell hardness tester is equipped with a newly designed large displaying screen with good reliability, excellent operation and easy watching, thus it is a high-tech product combining the mechanic and electric features.

- It can show and set the present scale, test force, test indenter, dwell time and hardness conversion;
- the main function is as follows:
- Selection of all the Rockwell and superficial Rockwell scales;
- Conversion scales of different kinds of hardness;
- Test results can be saved and printed out, automatic calculation of maximum, minimum and average value;
- With RS232 interface for connecting to the computer.

APPLICATION

Suitable for quenched steel, tempered steel, annealed steel, cold and hard casting, malleable cast iron, hard alloy steel, aluminum alloy, copper alloy, bearing steel etc. Also suitable for surface quenched steel, surface heat treating and chemical treating materials, sheet, zinc layers, chrome layers, tin layers etc.

TECHNICAL SPECIFICATION

Initial test Force	3kgf (29.42N), 10kgf (98.07N)
Total test force	15kgf (147.1N), 30kgf (294.2N), 45kgf (441.3N), 60kgf (588.4N), 100kgf (980.7N), 150kgf (1471N)
Loading method	Automatic (Loading/Dwell/Unloading)
Hardness reading	LCD Screen Display
Test scale	HRA, HRD, HRC, HRF, HRB, HRG, HRH, HRE, HRK, HRL, HRM, HRP, HRR, HRS, HRV, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y
Conversion scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HBW
Data output	Built-in Printer, RS232 Interface
Resolution	0.1HR
Dwell time	0~60s
Max. Height of Specimen	175mm
Throat	165mm
Execute Standard	ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2
Power source	AC220V, 50Hz
Dimension (mm)	520×215×740 Packing Dimension: 650×370×980
Weight (kg)	Net Weight: 80 Gross Weight: 100

STANDARD DELIVERY

● Main unit	1 pc
● Diamond rockwell indenter	1 pc
● ϕ 1.588mm ball indenter	1 pc
● Test table (large, middle, V-shaped)	TOTAL 3 pcs
● Weight 1, 2, 3, 4, 5	TOTAL 5 pcs
● Standard rockwell hardness block	TOTAL 3 pcs
● Standard superficial rockwell hardness block	TOTAL 2 pcs
● Level	1 pc
● Horizontal regulating screw	4 pcs
● Inner hexagon spanner	1 pc
● Spanner	1 pc
● Power cable	1 pc
● Fuse 2A	2 pc
● Anti-dust cover	1 pc
● Usage instruction manual	1 pc

AUTOMATIC DOUBLE ROCKWELL HARDNESS TESTER RH-550



FEATURES

RH-550 Automatic double Rockwell hardness tester with a good aesthetic aspect, complete functions, easy operation, intuitive display and good reliability, is a high-tech product combining the mechanic and electric features, which is suitable for the Rockwell and superficial Rockwell hardness test.

- Support for all the Rockwell and superficial Rockwell scales;
- Conversion scales of different kinds of hardness;
- With arc correction function;
- Touch screen display and operation, dynamically display the working state of the lifting screw and the indenter;
- Press operation for the test table, fast rising or dropping;
- One key to complete the rising of the specimen, loading dwell and unloading of the indenter, displaying of the hardness value, homing of the test table;
- With data storage function, automatic calculation of the maximum, minimum, average of the hardness value, the test results can be printed for output, and with a RS232 interface users can connect it to the computer for output.

APPLICATION

Suitable for quenched steel, tempered steel, annealed steel, cold and hard casting, malleable cast iron, hard alloy steel, aluminum alloy, copper alloy, bearing steel etc. Also suitable for surface quenched steel, surface heat treating and chemical treating materials, sheet, zinc layers, chrome layers, tin layers etc.

TECHNICAL SPECIFICATION

Initial test Force	3kgf (29.42N), 10kgf (98.07N)
Total test force	15kgf (147.1N), 30kgf (294.2N), 45kgf (441.3N), 60kgf (588.4N), 100kgf (980.7N), 150kgf (1471N)
Loading method	Automatic (Loading/Dwell/Unloading)
Automatic Test Table	Automatic Rising and Homing, One Key to Complete
Hardness reading	Touch Screen
Test scale	HRA, HRD, HRC, HRF, HRB, HRG, HRH, HRE, HRK, HRL, HRM, HRP, HRR, HRS, HRV, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y
Conversion scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HBW
Data output	Built-in Printer, RS232 Interface
Resolution	0.1HR
Dwell time	0~99s
Max. Height of Specimen	320mm
Throat	150mm
Execute Standard	ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2
Power source	AC220V, 50Hz
Dimension (mm)	535×330×890 Packing Dimension: 820×460×1170
Weight (kg)	Net Weight: 80 Gross Weight: 100

STANDARD DELIVERY

• Main unit	1pc
• Diamond rockwell indenter	1pc
• ϕ 1.588mm ball indenter	1pc
• Large, middle plane test table, V-shaped test table	1pc(each)
• Standard hardness test block	Total 3 pcs
• Standard superficial rockwell hardness block	Total 2 pcs
• Fuse 2A	2 pcs
• Power cable	1 pc
• Anti-dust cover	1 pc
• Usage instruction manual	1 pc

DIGITAL ROCKWELL HARDNESS TESTER RH-200

FEATURES:

- Hardness scale: HRA, HRB, HRC
- Modification stepping 0.1 degree
- Test scope: hardness with 15 kinds of scales including HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, and HRV.
- Duration time: 1-99s
- Data save: 500 pieces, each piece can save 50 times of test results at most
- Data print mode: computer print, local print
- Test accuracy: 0.001mm
- Loading mode: Automatic loading (manually loading the preliminary test force)
- Test standards: ASTM E-18; ISO6508

TECHNICAL SPECIFICATION

Hardness scale	Rockwell
Preliminary test force	98.07N (10kgf)
Total test force	588.4N (60kgf), 980.7N (100kgf), 1471 N(150kgf)
Test force selection	Manual
Test force control	Automatic (loading/duration/unloading)
Test scope	HRA≤95, HRB: 20-100, HRC: 20-70
Print the data volume	Local print 50 pieces, computer print 30 pieces
Maximum height of the test piece	200mm
Depth of the center line	152mm
Operating temperature	10- 38°C (50- 100°F)
Humidity	10%- 90% without condensation
Dimension of main unit	Length: 460mm, Width: 188mm, Height: 678mm
Weight	80kg
Power voltage	Single-phase, AC, 220V 2A 50 - 60Hz



TWIN ROCKWELL HARDNESS TESTER RH-100RS

FEATURES:

- Direct analog dial reading, rockwell and superficial rockwell
- Engineered to obtain highly sensitive and accurate reading
- Conforms to ASTM E-18

TECHNICAL SPECIFICATION

Hardness Scales	HRA B, C, D, E, F, G, H, K , L, M (superficial) HR15N, HR15T, HR30N, HR30T, HR45N, HR45T
Minor Load	3 Kgf, 10 Kgf
Major Load	15Kgf 60 Kgf 30 Kgf 100 Kgf 45 Kgf 150 Kgf
Test Force Application	Dead Weight
Test Force Control	Manual
Results Display	Dual Scale Dial
Vertical Capacity	150mm
Throat Depth	140mm
Height	660mm
Width	465mm
Depth	238mm
Shipping Weight	115KG



EXTRA HEIGHT DIGITAL ROCKWELL HARDNESS TESTER RH-300H

TECHNICAL SPECIFICATION

Initial Test Force	10kgf (98.07N)
Total Test Force	60kgf (588.4N), 100kgf (980.7N), 150kgf(1471N)
Indenter	Diamond Rockwell Indenter, Ø1.588mmBall Indenter
Loading Method	Automatic (Loading/Dwell/Unloading)
Hardness Reading	LCD Screen Display
Test Scale	HRA, HRD, HRC, HRF, HRB, HRG, HRH, HRE, HRK, HRL, HRM, HRP, HRR, HRS, HRV
Conversion Scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HBW
Data Output	Built-in Printer, RS232 Interface
Hardness Resolution	0.1HR
Dwell Time	0~60s
Max. Height of specimen	400mm
Throat	165mm
Power Supply	AC220V, 50Hz
Standard	ISO 6508, ASTM E18, JIS Z2245
Dimension	500x200x880mm, Packing Dimension: 650x370x1140mm
Weight	Net Weight: 98kg, Gross Weight: 120kg



EXTRA HEIGHT ROCKWELL HARDNESS TESTER RH-120H

TECHNICAL SPECIFICATION

MINOR Load	10Kgf
Major Load	60Kgf, 100Kgf, 150Kgf
Test Force Application	Dead Weight
Test Force Control	Hydraulic Dashpot System
Results Display	Analog Dial Gage
Vertical Capacity	15-3/4" in.
Throat Depth	140mm
Height	840mm
Width	458mm
Depth	1780mm
G. Weight	100kg
Standard	ISO 6508, ASTM E18



ELECTRONIC BRINELL HARDNESS TESTER BH-3000A



FEATURES

BH-3000A Electronic Brinell hardness tester is a unified product combining the precise mechanical structure and the load cell control system. The instrument adopts the motorized test force application without weights, and uses 0.5% accuracy compression sensor to feedback and the CPU control system to automatically compensate the test force lost during the test. The test force and dwell time can be directly set on the touch keyboard with reliable repeatability, precise reading and easy operation. It can be equipped with V1.0 Brinell image automatic measuring system.

4CC7-64GBA

Suitable for cast iron, steel products, nonferrous metals and soft alloys etc. Also suitable for some nonmetal materials such as rigid plastics and bakelite etc.

TECHNICAL SPECIFICATION

Test Force	612.9N(62.5kgf)	4903N(500kgf)
	980.7N(100kgf)	7355N(750kgf)
	1226N(125kgf)	9807N(1000kgf)
	1839N(187.5kgf)	14710N(1500kgf)
	2452N(250kgf)	29420N(3000kgf)
Test Range	3.18~653HBW	
Hardness Reading	Check Hardness Table	
Microscope	20× Reading Microscope	
Minimum Division Value of Drum Wheel	5μm	
Dwell Time	0~60s	
Max. Height of Specimen	220mm	
Throat	135mm	
Power Supply	AC220V, 50Hz	
Execute Standard	ISO 6506, ASTM E10-12, JIS Z2243, GB/T 231.2	
Dimension	545×235×755mm Packing Dimension: 650×435×1025mm	
Weight	Net Weight: 130kg Gross Weight: 160kg	

STANDARD DELIVERY

●Main unit	1pc
●φ2.5,φ5,φ10mm steel ball indenter	1pc(each)
●Large ,small plane test table, V-shaped test table	1pc(each)
●Standard hardness test block	
HBW10/3000 (150~250)	1pc
HBW5/750 (150~250)	1pc
●Fuse 2A	2pcs
●Power cable	1pc
●Inner hexagon spanner 3mm	1pc
●20× reading microscope	1pc
●Anti-dust cover	1pc
●Brinell hardness table	1pc
●Usage instruction manual	1copy

DIGITAL BRINELL HARDNESS TESTER BH-3000B



FEATURES

BH-3000B Digital Brinell hardness tester is a unified product combining the precise mechanical structure and the load cell control system. The instrument adopts the motorized test force application without weights, and uses 0.5% accuracy compression sensor to feedback and the CPU control system to automatically compensate the test force lost during the test. The indentation can be directly measured through the digital measuring eyepiece, and it can intuitively show the test force, indentation length, dwell time, test number, date and time on the large screen. As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and shows on the screen. Test results can be saved for checking or be printed out by the built-in printer, and with RS232 interface for connecting to the computer. According to the client's requirement, it can be equipped with video measuring device and CCD image automatic measuring system.

4CC7-64G-BA

Suitable for cast iron, steel products, nonferrous metals and soft alloys etc. Also suitable for some nonmetal materials such as rigid plastics and bakelite etc.

TECHNICAL SPECIFICATION

Test Force	612.9N(62.5kgf)	4903N(500kgf)
	980.7N(100kgf)	7355N(750kgf)
	1226N(125kgf)	9807N(1000kgf)
	1839N(187.5kgf)	14710N(1500kgf)
	2452N(250kgf)	29420N(3000kgf)
Test Range	3.18~653HBW	
Hardness Reading	LCD Display	
Conversion Scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS	
Data Output	Built-in Printer, RS232 Interface	
Microscope	20× Digital Measuring Eyepiece	
Minimum Division Value of Drum Wheel	1.25μm	
Dwell Time	0~60s	
Max. Height of Specimen	225mm	
Throat	135mm	
Power Supply	AC220V, 50Hz	
Execute Standard	ISO 6506, ASTM E10-12, JIS Z2243	
Dimension	545×235×790mm Packing Dimension: 650×435×1060mm	
Weight	Net Weight: 130kg Gross Weight: 160kg	

STANDARD DELIVERY

●Main unit	1pc
●φ2.5, φ5, φ10mm steel ball indenter	1pc(each)
●Large ,small plane test table, V-shaped test table	1pc(each)
●Standard hardness test block	
HBW10/3000 (150~250)	1pc
HBW5/750 (150~250)	1pc
●Fuse 2A	2pcs
●Power cable	1pc
●Inner hexagon spanner 2.5mm	1pc
●20× digital measuring eyepiece	1pc
●Anti-dust cover	1pc
●Usage instruction manual	1copy

FULLY AUTOMATIC BRINELL HARDNESS TESTER BHS-3000



4CC7-64G-BA

BHS-3000 fully automatic three indenters digital Brinell hardness tester adopts casting shell with strong rigidity and precise structure design, the load of test force is controlled by the sensor, which makes the whole structure compact and loading of test force stable and exact. The test process is controlled by CPU, using automatic switching between the objective and the indenter. The location of switching adopts mechanical and electronic double matching, makes the location precision more high. With built-in panel computer, it makes the parameter setting and results show directly with easy operation, it also avoids the stimulation and visual fatigue of the light source of the eyepiece, and reduces the measuring error. After select the scale, the instrument will automatically select the indenter and objective, the test table rises automatically and then back to the focusing position after loading the test force, it shows the clear image of the indentation and automatically measures, which realizes the fully automation of the Brinell test.

FEATURES

- This instrument has 10 level of test force, 13 Brinell hardness test scales, suitable for different kinds of metal materials;
- With three indenters and two objectives, no need to change the indenters when testing different samples; with rigorous optical structure and high magnification, it makes the indentation observed clearly;
- According to the selected scale, with automatic shifting the instrument will automatically select the corresponding indenter and objective for measurement;
- The automatic lifting test table adopts precise structure with high stability, it automatically rises when start measuring, and then back to the focusing position for measuring after loading the test force, which realizes the one key automation;
- It adopts the integrated design of hardness tester and panel computer; With Windows 7 operating system, it has all functions of computer;
- With CCD image measuring system, touch screen operating and displaying, it can preset the test force dwell time, adjust intensity of light source, show the indentation length, hardness value, test range and test number etc.;
- The software has the function of calibration, manual fine tuning and set up and down limit etc., which ensures the accuracy of measurement;
- Conversion scales of different kinds of hardness;
- Test result can be saved as WORD or EXCEL report and can be printed out;
- With USB port, VGA interface and network interface, it can connect to the internet and other devices for more optional functions.

STANDARD DELIVERY

• Main unit	1	• Small Test Table	1
• 1×, 2× Objective	Total 2	• Large Test Table	1
• Power Cable	1	• V-shaped Test Table	1
• Φ2.5mm Ball Indenter	1	• Hardness Block	
• Φ5mm Ball Indenter	1	150~250 HBW 10/3000	1
• Φ10mm Ball Indenter	1	150~250 HBW 5/750	1
• Inner Hexagon Spanner 3mm	1	• Fuse 2A	2
• Usage Instruction Manual	1	• Anti-dust Cover	1

TECHNICAL SPECIFICATION

Model No.		BHS-3000
Test Force	kgf	62.5kgf, 100kgf, 125kgf, 187.5kgf, 250kgf, 500kgf, 750kgf, 1000kgf, 1500kgf, 3000kgf
	N	612.9N, 980.7N, 1226N, 1839N, 2452N, 4903N, 7355N, 9807N, 14710N, 29420N
Test Range		3.18 ~ 653HBW

TECHNICAL SPECIFICATION

Loading Method	Automatic (Loading/Dwell/Unloading)
Hardness Reading	Indentation Displaying and Automatic Measuring on Touch Screen
Computer	CPU: Intel I5 , Memory: 2G , SSD: 64G: Intel I5 , Memory: 2G , SSD: 64G
Camera	3 millions pixel
Data Out	USB,VGA,Internet Interface
Conversion Scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HBS, HBW
Shifting between Objective and indenter	Automatic Recognition and Shifting (Three Indenters, Two Objectives)
Objective	1 ^x , 2 ^x
Total Magnification	20 ^x , 40 ^x
Resolution	1.5 μ m , 3 μ m
Dwell Time	0~95s
Max Test Height	290mm
Test Throat	150mm
Power Supply	AC220V,50Hz/ AC110V, 60HZ
Standard	ISO 6506 , ASTM E10-12 , JIS Z2243
Dimension	Machine :700×380×1000mm, Packing: 920×510×1280mm
Weight	Net Weight: 200kg , Gross Weight: 230kg

FULLY AUTOMATIC BRINELL HARDNESS TESTER BHS-3000F



FEATURES

- Integrated with industrial tablet PC, built-in industrial grade CCD camera
 - Equipped with Brinell CCD image processing system, directly display indentation image and testing data on screen, and finish manual or automatic measurement to the image.
 - Automatic turret shifting between indenter and lens.
 - Equipped with twin high definition objective lens
 - Electric loading without weights, closed loop control.
 - Large 8" touch screen, direct visual display and interactive operating interface.
 - High speed ARM processor, fast operation speed and extensive database storage.
 - High quality integral casting cast iron machine body with automotive paint treatment process, the appearance is smooth and beautiful.
 - Built-in hardness conversion scales, which can realize full hardness scale conversion.
 - The maximum and minimum hardness values can be set, when the test value exceeds the set range, an alarm sound will be issued.
 - Automatic hardness value correction, the hardness value can be directly corrected within a certain range.
 - With the database function, the test data can be saved automatically in groups, each group can save 10 data, totally can save up to 2000 data.
- With the hardness value curve display function, intuitively display the changes of hardness value.
 - Equipped with wireless blue-tooth printer, the data can be output through RS232 or USB interface.
 - Precision conforms to ISO 6506-2 and ASTM E10
 - Suitable to determine the Brinell hardness of unquenched steel, cast iron, non-ferrous metals and soft bearing alloys, etc.

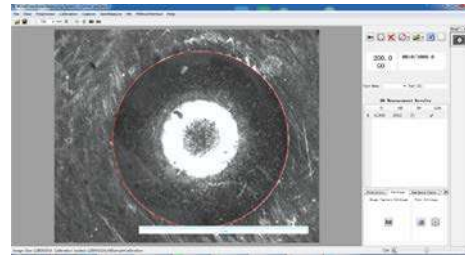
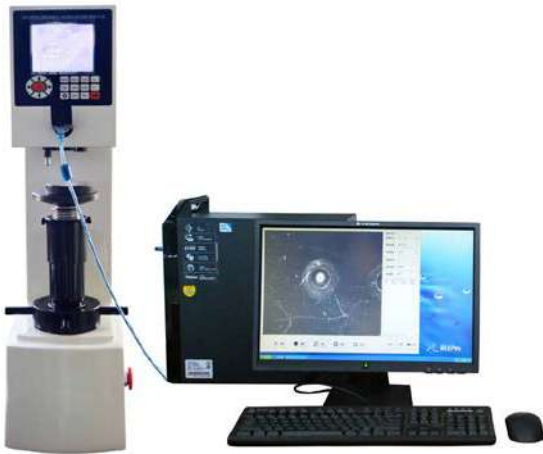
TECHNICAL SPECIFICATION

- Measuring range: 5-650 HBW
- Test force: 62.5, 100, 125, 187.5, 250, 500, 750, 1000, 1500, 3000 kgf (612.9, 980.7, 1226, 1839, 2416, 4903, 7355, 9807, 14710, 29421 N)
- Brinell Scale: HBW2.5/62.5, HBW2.5/187.5, HBW5/62.5, HBW5/125, HBW5/250, HBW5/750, HBW10/100, HBW10/1500, HBW10/3000, HBW10/250, HBW10/500, HBW10/1000
- Hardness resolution: 0.1 HBW
- Eyepiece magnification: 20x
- Objective lens magnification: 1x, 2x
- Total magnification: 20x, 40x
- Max. height of test piece: 280 mm
- Depth of throat: 165 mm
- Dwelling time: 1~99 s
- Power supply: 220 Vac, 50 or 60 Hz
- Dimensions: 700x268x980 mm
- Weight: approx. 160 kg

STANDARD DELIVERY

- Hardness tester
- Large flat anvil: 1 pc.
- Small flat anvil: 1 pc.
- V-notch anvil: 1 pc.
- Tungsten carbide ball penetrator: \varnothing 2.5, 5, 10mm, 1 pc. for each
- Brinell standardized block: 2 pcs.
- Bluetooth printer
- Manual

BRINELL CCD IMAGE AUTOMATIC MEASURING SYSTEM BH-3000S



STANDARD DELIVERY

- Computer (Hard disk: 500G, Memory: 2G, 19 inch LCD screen)
- Ink Jet Printer
- CCD Camera (1.30 Million Pixel)
- USB Softdog
- Measuring Software

FEATURES

CCD Image automatic measuring system combines the computer software and the hardness tester, the whole test procedure is finished through the easy operation of keyboard and mouse click, which avoids the visual fatigue and man-made error and can test different kinds of hardness. It is equipped with a CCD camera easy to observe, and can directly observe and measure the indentation on the display. For test conditions of setting, the results can be clearly and conveniently operated and displayed. It can automatically carry out the calculation of infiltration depth, statistical calculations, conversion, display curve, judging whether qualified and save the result as WORD or EXCEL documents.

- Basic function: include all functions of image processing and measurement system, such as image capture, calibration, image processing, geometric measurement, annotation, photo album management and fixed times print etc;
- Automatic measurement: Automatically capture the indentation and measure the diameter and calculate the corresponding value of Brinell hardness;
- Hardness conversion: The system can convert the measured Brinell hardness value HB to other hardness value such as HV, HR etc;
- Data statistics: The system can automatically calculate the average value, variance and other statistical value of the hardness;
- Standard exceeding alarm: Automatic mark the abnormal value, when the hardness exceeds the specified value, it automatically alarms;
- Test report: Automatically generate the report of WORD or EXCEL format, the report templates can be modified by the user.
- Easy to use: Click on the interface button or press the camera button or press the run button to automatically complete all the work; if need manual measurement or modify the results, just drag the mouse;
- Strong noise resistance: The advanced and reliable image recognition technology can handle the indentation recognition on the surface of the complex sample, two kinds of automatic measurement mode to deal with the extreme situation;
- Automatic calibration: The system has provided a calibration function, convenient for the indentation size measurement and may calibrate at any time. With a calibration grid, the system can automatically implement full calibration for calibration grid intersection points to eliminate measurement error caused by lens distortion.

DIGITAL MICRO VICKERS HARDNESS TESTER 500MVT/510MVT



Model No.

500MVT



Model No.

510MVT

Model No.	500MVT	510MVT
Scale of hardness	Vickers and Knoop	
Test force	10, 25, 50 100 200, 300, 500 and 1000gf	
Selection of test force	Manual	
Control of test force	Automatic (loading/keeping/unloading)	
Standards applied	EN-ISO 6507, ASTM E384&E92 and JIS standard	
Load keeping time	1-99s	
Turret	Manual	Automatic
Eyepiece magnification	10×	
Object lens	10× and 40×	
Total magnification	100× (observation and measurement), 400× (observation and measurement)	
Range of measurement	200µm	
Light channel	Bilaterally switchable: Eyepiece /CCD	
Optical light filter	Green and blue	
Light source	Halogen lamp, adjustable	
Indication	Hardness value, test force, length of diagonal, test times, etc.	
Language	English	
Maximum height of Test piece	90mm	
Centerline depth	120mm	
Dimension of XY testing bench	100mm×100mm	
Displacement distance of XY testing bench	25mm×25mm	
Minimum displacement value of XY testing bench	0.01mm	
Working temperature	10 to 38°C (50 to 100°F)	
Humidity	10% to 90%, no condensing	
Dimension of host	Length: 433mm Width: 228mm Height: 523mm	
Weight	36kg	
Power supply	Single-phase, AC 220V 3A 50-60Hz	

DIGITAL MICRO VICKERS HARDNESS TESTER 532MVT/531MVT



FEATURES:

532MVT/531MVT Micro Vickers hardness tester adopts unique precision design of optics, mechanic and electrics features, make the indentation image clearer, and get more precise measurements. It can directly show the test mode, test force, dwell time, test numbers, conversion scale on the screen, only need to input the diagonal of the indentation when operation, it can automatically get the hardness value and show on the screen. It can use optional Knoop indenter to measure Knoop hardness. And it can be equipped with CCD image automatic measuring system.

TECHNICAL SPECIFICATION

Model No.	532MVT	531MVT
Test Force	0.098n(10gf), 0.246n(25gf), 0.49n(50gf), 0.98n(100gf), 1.96n(200gf), 2.94n(300gf), 4.90n(500gf), 9.80n(1000gf)	
Test Range	1HV~2967HV	
Test Mode	HV/HK	
Loading Method	Automatic (Loading/Dwell/Unloading)	
Conversion Scale	HK, HRA, HRB, HRC, HRD, HRG, HRK, HR15n, HR30n, HR45n, HR15T, HR30T, HR45T, HBW	
Shifting between Objective and Indenter	Manual	Automatic
Total Magnificatio	100×, 400×	
Resolution	0.25μm	
Dwell Time	0~60s	
Light Source	Halogen Lamp	
X-y Test Table	Size: 100×100mm; Travel: 25×25mm; Resolution: 0.01mm	
Max. Height of Specimen	100mm	
Throat	98mm	
Power Supply	AC220V, 50Hz	
Execute Standard	ISO 6507, ASTM E384, JIS Z2244, GB/T 4340.2	
Dimension	480×325×545mm Packing Dimension: 600×360×800mm	
Weight (kg)	net Weight: 31 Gross Weight: 44	

STANDARD DELIVERY

●Main unit	1 pc
●Diamond Micro Vickers Indenter	1 pc
●10× Reading Microscope	1 pc
●10×, 40× Objective	1 pc
●Weights	6 pcs
●Weight Axis	1 pc
●Cross Test Table	1 pc
●Flat Clamping Test Table	1 pc
●Thin Specimen Test Table	1 pc
●Filament Clamping Test Table	1 pc
●Horizontal Regulating Screw	4 pcs
●Level	1 pc
●Fuse 1A	2 pcs
●Halogen Lamp 12V, 15~20W	1 pc
●Power Cable	1 pc
●Screw Driver	2 pcs
●Hardness Block 400~500 HV0.2	1 pc
●Hardness Block 700~800 HV1	1 pc
●Anti-dust Cover	1 pc
●Usage Instruction Manual	1 pc

DIGITAL MICRO VICKERS HARDNESS TESTER 730MVA



FEATURES

730MVA Digital Micro Vickers hardness tester adopts unique precision design of optics, mechanic and electric features, make the indentation image clearer, and get more precise measurements. With digital measuring eyepiece, no need for checking the table or inputting the diagonal of the indentation, it can directly show the test mode, test force, indentation length, dwell time, test numbers, conversion scale, date and time. As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and show on the large screen. Test results can be saved for checking or be printed out by the built-in printer, and with RS232 interface for connecting to the computer. It can use optional Knoop indenter to measure Knoop hardness. Also it can be equipped with LCD video measuring device and CCD image automatic measuring system.

APPLICATION

Suitable for ferrous metal, non-ferrous metals, IC thin sections, coatings, ply-metals; glass, ceramics, agate, precious stones, thin plastic sections etc.; hardness testing such as that on the depth and the trapezium of the carbonized layers and quench hardened layers.

TECHNICAL SPECIFICATION

Test Force	0.098n(10gf), 0.246n(25gf), 0.49n(50gf), 0.98n(100gf), 1.96n(200gf), 2.94n(300gf), 4.90n(500gf), 9.80n(1000gf)
Test Range	1HV~2967HV
Test Mode	HV/HK
Loading Method	Automatic (Loading/Dwell/Unloading)
Conversion Scale	HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15n, HR30n, HR45n, HR15T, HR30T, HR45T, HS, HB
Data Output	Built-in Printer, RS232 Interface
Shifting between Objective and Indenter	Automatic
Total Magnification	100×, 400×
Resolution	0.0625μm
Dwell Time	0~60s
Light Source	Halogen Lamp
X-y Test Table	Size: 100×100mm; Travel: 25×25mm; Resolution: 0.01mm
Max. Height of Specimen	100mm
Throat	98mm
Power Supply	AC220V, 50Hz
Execute Standard	ISO 6507, ASTM E384, JIS Z2244
Dimension	480×325×545mm Packing Dimension: 600×360×800mm
Weight (kg)	net Weight: 31 Gross Weight: 44

STANDARD DELIVERY

●Main unit	1	●Weights	6
●Diamond Micro Vickers Indenter	1	●Weight Axis	1
●10× Digital Measuring Eyepiece	1	●10×, 40× Objective	1
●Hardness Block 400~500 HV0.2	1	●Fuse 1A	2
●Hardness Block 700~800 HV1	1	●Power Cable	1
●Horizontal Regulating Screw	4	●Screw Driver	2
●Cross Test Table	1	●Level	1
●Flat Clamping Test Table	1	●Anti-dust Cover	1
●Thin Specimen Test Table	1	●Halogen Lamp	1
●Filament Clamping Test Table	1	12V, 15~20W	1
●Usage Instruction Manual	1		

DIGITAL MICRO VICKERS HARDNESS TESTER 750MVA



FEATURES

750MVA Digital Micro Vickers hardness tester adopts unique precision design of optics, mechanic and electrics features, make the indentation image clearer, and get more precise measurements. With digital measuring eyepiece, no need for checking the table or inputting the diagonal of the indentation, it can directly shows the test mode, test force, indentation length, dwell time, test numbers, conversion scale, date and time. As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and show on the large screen. Test results can be saved for checking or be printed out by the built-in printer, and with RS232 interface for connecting to the computer. It can use optional Knoop indenter to measure Knoop hardness. Also it can be equipped with LCD video measuring device and CCD image automatic measuring system.

APPLICATION

Suitable for ferrous metal, non-ferrous metals, IC thin sections, coatings, ply-metals; glass, ceramics, agate, precious stones, thin plastic sections etc.; hardness testing such as that on the depth and the trapezium of the carbonized layers and quench hardened layers.

TECHNICAL SPECIFICATION

Test Force	0.098n(10gf), 0.246n(25gf), 0.49n(50gf), 0.98n(100gf), 1.96n(200gf), 2.94n(300gf), 4.90n(500gf), 9.80n(1000gf) , 19.60N(2000gf)
Test Range	1HV~2967HV
Test Mode	HV/HK
Loading Method	Automatic (Loading/Dwell/Unloading)
Conversion Scale	HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15n, HR30n, HR45n, HR15T, HR30T, HR45T, HS, HB
Data Output	Built-in Printer, RS232 Interface
Shifting between Objective and Indenter	Automatic
Total Magnificatio	100×, 400×
Resolution	0.0625μm
Dwell Time	0~60s
Light Source	Halogen Lamp
X-y Test Table	Size: 100×100mm; Travel: 25×25mm; Resolution: 0.01mm
Max. Height of Specimen	100mm
Throat	98mm
Power Supply	AC220V, 50Hz
Execute Standard	ISO 6507, ASTM E384, JIS Z2244
Dimension	480×325×545mm Packing Dimension: 600×360×800mm
Weight (kg)	net Weight: 40 Gross Weight: 50

STANDARD DELIVERY

●Main unit	1	●Weights	6
●Diamond Micro Vickers Indenter	1	●Weight Axis	1
●10× Digital Measuring Eyepiece	1	●10×, 40× Objective	1
●Hardness Block 400~500 HV0.2	1	●Fuse 1A	2
●Hardness Block 700~800 HV1	1	●Power Cable	1
●Horizontal Regulating Screw	4	●Screw Driver	2
●Cross Test Table	1	●Level	1
●Flat Clamping Test Table	1	●Anti-dust Cover	1
●Thin Specimen Test Table	1	●Halogen Lamp	1
●Filament Clamping Test Table	1	12V, 15~20W	1
●Usage Instruction Manual	1		

DIGITAL VICKERS HARDNESS TESTER VH-5/10/30/50EM



APPLICATION

Suitable for ferrous metal, non-ferrous metals, IC thin sections, coatings, ply-metals; glass, ceramics, agate, precious stones, thin plastic sections etc.; hardness testing such as that on the depth and the trapezium of the carbonized layers and quench hardened layers.

FEATURES

- It adopts the close-loop force sensor to replace the traditional quality weight, this innovative design makes the instrument more accurate.
- Selection of testing force and dwell time is controlled and monitored on the front panel, it is automatic during the process of loading, dwell and unloading.
- It adopts digital microscopes with adjustable LED illuminator, it doesn't need the operator to read the detail length of indentation, it only needs the operator to aim the D1, D2 diameter of indentation and press the length key twice, then the built-in computer can compute the Vickers scale.
- It doesn't need the operator to read the detail diameter of indentation and check the Vickers testing table, it improves the speed and accuracy of hardness testing obviously.
- Hardness conversion among 17 hardness scales, and linking to PC in RS232 interface and cable.

TECHNICAL SPECIFICATION

Model No.	VH-5EM	VH-10EM	VH-30EM	VH-50EM
Test Load (N)	2.942/4.903 9.807/19.61/24.52 29.42/49.03	4.903/9.807 19.61/24.52/29.42 49.03/98.07	4.903/9.807/19.61 24.52/29.42/49.03 98.07/196.1/294.2	9.807/19.61/24.52 29.42/49.03/98.07 196.1/294.2/490.3
Test Load (Kgf)	0.3 / 0.5 1 / 2 / 2.5 / 3 / 5	0.3 / 0.5 / 1 / 2 2.5 / 3 / 5 / 10	0.5 / 1 / 2 / 2.5 3 / 5 / 10 / 20 / 30	1 / 2 / 2.5 / 3 5 / 10 / 20 / 30 / 50
Carriage control	Auto Automatic loading, holding-up and unloading			
Load holding time	0~60 second			
Magnification of microscope	100X(For Observation), 400X(For Measurement)		100X(For Observation), 200X(For Measurement)	
Measuring microscope Min. measuring unit	If 100X: 0.25 μm If 400X : 0.0625um		If 100X: 0.25 μm If 200X :0.125um	
Testing field	1HV~2967HV			
Magnification Objective of	10x and 40x		10x and 20x	
Magnification Eyepiece of	Magnification:10x; Resolution:0.03mm			
Hardness Indication	LCD display			
Dwell Time	0~60s			
AutoHardness Conversion	HRA, HRB, HRC,HV, HK ,HBW ,etc			
Lens/indenter switch	With manual Turret			
Mini printer	Mini printer build inside(Only for VH-5EM/10EM/30EM/50EM)			
Max. height of specimen	170mm			
Max. depth of specimen	130mm			
Accuracy	Conforms to EN-ISO 6507, ASTM E10-08, ASTM E-384			
Power	110V/220V,60/50Hz			
Objective	10X, 20X and 40X can be selected according to user's requirement			
Dimension	535mmX225mmX580mm			
Packing	630×460×710mm			
Weight	Gross weight:70KG; Net Weight: 50KG			

ADVANCED DIGITAL VICKERS HARDNESS TESTER VH-5/10/30/50EA



APPLICATION

Suitable for ferrous metal, non-ferrous metals, IC thin sections, coatings, ply-metals; glass, ceramics, agate, precious stones, thin plastic sections etc.; hardness testing such as that on the depth and the trapezium of the carbonized layers and quench hardened layers.

FEATURES

- It adopts load cell control system, improves the precision of the test force and the repeatability and stability of the indicating value.
- It adopts the high resolution color touch screen which is visual and clear, easy to operate, display backlight adjustable with energy-saving mode.
- With digital measuring eyepiece, no need for checking the table or inputting the diagonal of the indentation, it can directly show the test force, indentation length, dwell time, test numbers, conversion scale, date and time. As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and shows on the screen. Test results can be saved in real time with automatic calculation of maximum, minimum and average value, the data can be arbitrary deleted and printed out, and with RS232 interface for connecting to the computer.
- It can be equipped with LCD video measuring device and CCD image automatic measuring system.

TECHNICAL SPECIFICATION

Model No.	VH-5EA	VH-10EA	VH-30EA	VH-50EA
Test Load (N)	2.942/4.903 9.807/19.61/24.52 29.42/49.03	4.903/9.807 19.61/24.52/29.42 49.03/98.07	4.903/9.807/19.61 24.52/29.42/49.03 98.07/196.1/294.2	9.807/19.61/24.52 29.42/49.03/98.07 196.1/294.2/490.3
Test Load (Kgf)	0.3 / 0.5 1 / 2 / 2.5 / 3 / 5	0.3 / 0.5 / 1 / 2 / 2.5 / 3 / 5 / 10	0.5 / 1 / 2 / 2.5 / 3 / 5 / 10 / 20 / 30	1 / 2 / 2.5 / 3 5 / 10 / 20 / 30 / 50
Carriage control	Auto Automatic loading, holding-up and unloading			
Load holding time	0~60 second			
Magnification of microscope	100X(For Observation), 400X (For Measurement)		100X(For Observation), 200X (For Measurement)	
Measuring microscope Min. measuring unit	If 100X: 0.25 μm If 400X : 0.0625um		If 100X: 0.25 μm If 200X :0.125um	
Testing field	1HV~2967HV			
Magnification of Objective	10x and 40x		10x and 20x	
Magnification of Eyepiece	Magnification:10x; Resolution:0.03mm			
Hardness Indication	LCD display			
Dwell Time	0~60s			
Auto Hardness Conversion	HRA, HRB, HRC,HV, HK ,HBW ,etc			
Lens/indenter switch	With Auto Turret			
Mini printer	Mini printer build inside			
Max. height of specimen	170mm			
Max. depth of specimen	130mm			
Accuracy	Conforms to EN-ISO 6507, ASTM E10-08, ASTM E-384			
Power	110V/220V,60/50Hz			
Objective	10X, 20X and 40X can be selected according to user's requirement			
Dimension	535mmX225mmX580mm			
Packing Dimension	630×460×710mm			
Weight	Gross weight:70KG; Net Weight: 50KG			

DIGITAL UNIVERSAL HARDNESS TESTER UHT-900D

FEATURES

- UHT-900D is a universal hardness testing instrument for the measurement of Brinell, Rockwell and Vickers scale.
- Equip 7-testing-foce and 5-indenter, it is universal to measure a most of metal material.
- Dwell time from 2 to 60S can be setup by the “time key” inside the LCD panel, it is much convenient than the setup on the manual hardness tester.
- Loading ,dwell and unloading is driven by electronic motor automatically , doesn't need the operator to handle it, it eliminates the human operating error maximum.
- Doesn't need the operator to read and check the hardness scale table ,it will compute and display the testing result once press the key of digital length sensor.



TECHNICAL SPECIFICATION

Model No	UHT-900D
Rockwell Scales	HRA, HRB, HRC
Rockwell Testing Force	60Kgf(588.4N)、100Kgf(980.7N)、150Kgf(1471N)
Brinell Scales	HBW1/30、HBW2.5/62.5、HBW10/100、HBW2.5/187.5
Brinell Testing Force	31.25Kgf(306.5N)、62.5Kgf(612.9N)、187.5Kgf(1839N)
Vickers Scales	HV 30、HV100
Vickers Testing Force	30Kgf(294.2N)、100Kgf(980.7N)
Rockwell Hardness Indication	Digital LCD display
Rockwell Resolution	0.1HR
Loading Control	Automatic
Data Output	RS 232/Printer
Magnification of Microscope	Brinell:37.5x; Viceers:75x
Dwell Time	2~60s
Max. Height Of Specimen	Rockwell:170mm; Brinell, Vickers:140mm
Instrument Throat	165mm
Dimension(LxWxH)	520 x215 x700mm
Packing Dimension	630 x440 x960mm
Gross/Net Weight	120Kg/90Kg
Execution Standard	EN-ISO 6508 , ASTM E-18

STANDARD DELIVERY

Unit: mm

Hardness Block (57-70)HRC	1SET	Ø5mm Brinell Ball Indenter	1PC	Mini-Printer	1PC
Hardness Block (20-33)HRC	1PC	Rockwell Cone Diamond Indenter	1PC	2.5x Brinell Objective	1PC
Hardness Block (85-100)HRB	1PC	Vickers Indenter	1PC	5x Vickers Objective	1PC
Vickers Hardness Block HV 30	1PC	Ø 150mm Flat Anvil	1PC	Power Cable	1PC
HBW2.5/187.5 Hardness Block	1PC	Ø 55mm V-shape Anvil	1PC	Accessories Box	1PC
Ø1.588mm Rockwell Ball Indenter	1PC	Ø 55mm Flat Anvil	1PC	Instrument Manual	1PC
Ø2.5mm Brinell Ball Indenter	1PC	15x analogue Eyepiece	1PC		

DIGITAL UNIVERSAL HARDNESS TESTER UHT-900



FEATURES

UHT-900 Brinell Rockwell & Vickers hardness tester is a multi-functional hardness tester with Brinell, Rockwell & Vickers three test modes and 7 level of test forces, which can test several kinds of hardness. Test force loading, dwell, unload adopts automatic system, widely used and easy to operate, therefore it is the popular machine for industrial enterprises and scientific research institutes

APPLICATION

Suitable for hardened and surface hardened steel, hard alloy steel, casting parts, non-ferrous metals, various kinds of hardening and tempering steel and tempered steel, carburized steel sheet, soft metals, surface heat treating and chemical treating materials etc.

TECHNICAL SPECIFICATION

Model No.	UHT-900
Rockwell Test Force	60kgf (558.4n), 100kgf (980.7n), 150kgf (1471n)
Brinell Test Force	30kgf (294.2n), 31.25kgf (306.5n), 62.5kgf (612.9n), 100kgf (980.7n), 187.5kgf (1839n)
Vickers Test Force	30kgf (294.2n), 100kgf (980.7n)
Hardness Reading	Rockwell: Dial, Brinell & Vickers: Check Hardness Table
Magnification	Brinell: 37.5×, Vickers: 75×
Resolution	Rockwell: 0.5HR, Brinell: 4μm, Vickers: 2μm
Dwell Time	2~60s
Max. Height of Specimen	Rockwell: 175mm, Brinell: 100mm, Vickers: 115mm
Throat	165mm
Power Supply	AC220V, 50Hz
Execute Standard	ISO 6508, ASTM E-18, JIS Z2245 ISO 6506, ASTM E10-12, JIS Z2243 ISO 6507, ASTM E92, JIS Z224
Dimension	520×240×700mm Packing Dimension: 650×370×950mm
Weight	net Weight: 80kg, Gross Weight: 105kg

STANDARD DELIVERY

•Main unit	1	•Slipped Test Table	1
•Diamond Rockwell Indenter	1	•Middle Test Table	1
•Diamond Vickers Indenter	1	•Large Test Table	1
•φ1.588mm, φ2.5mm, φ5mm Ball Indenter	3	•V-shaped Test Table	1
•15× Digital Measuring Eyepiece	1	•2.5×, 5× Objective	2
•Microscope System (include the inside light and outside light)	1	•Weights 0, 1, 2, 3, 4	5
•Hardness Block 150~250 HBW 2.5/187.5	1	•Horizontal Regulating Screw	4
•Hardness Block 60~70 HRC	1	•Power Cable	1
•Hardness Block 20~30 HRC	1	•Fuse 2A	2
•Hardness Block 80~100 HRB	1	•Level	1
•Hardness Block 700~800 HV30	1	•Spanner	1
•Usage Instruction Manual	1	•Screw Driver	1
		•Anti-dust Cover	1

AUTOMATIC VICKERS HARDNESS TESTER VHS-10/VHS-50

APPLICATION

VHS Automatic Vickers Hardness Tester is integrated with several new technologies such as optical imaging, mechanical displacement, electronic control, digital imaging, image analysis, computer processing and so on. It controls the Vickers hardness tester and automatic test table by the computer, and displays the indentation image on the computer screen. By means of automatic reading and manual reading, it accurately measures the HV hardness, hardening depth, film thickness, distance between two points of metals and some non-metallic materials and various films. It also can shoot metal surface morphology and taking fixed rate printing etc. This system breaks through the traditional test method, realize the hardness test of semi automatic, high precision, high repeatability, and it is the important equipment for materials analysis.

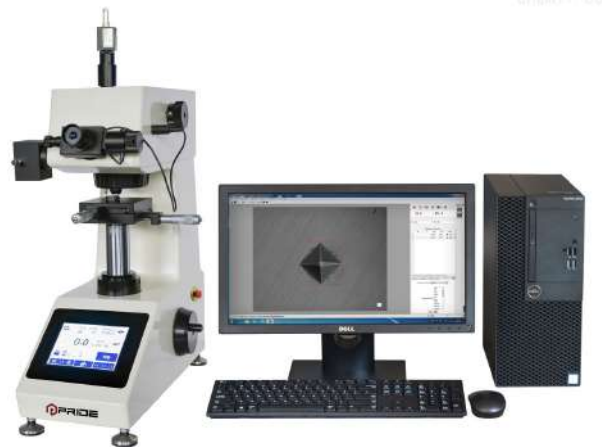


FOR MORE DETAILS, PLS CONTACT US OR OUR DISTRIBUTOR.

AUTOMATIC MICRO-VICKERS HARDNESS TESTER VH-1000AS2

APPLICATION

VH-1000AS2 Automatic Micro Vickers Hardness Tester is integrated with several new technologies such as optical imaging, mechanical displacement, electronic control, digital imaging, image analysis, computer processing and so on. It controls the Micro Vickers hardness tester and automatic test table by the computer, and displays the indentation image on the computer screen. By means of automatic reading and manual reading, it accurately measures the HV hardness, hardening depth, film thickness, distance between two points of metals and some non-metallic materials and various films. It also can shoot metal surface morphology and taking fixed rate printing etc. This system breaks through the traditional test method, realize the hardness test of semi automatic, high precision, high repeatability, and it is the important equipment for materials analysis.






FOR MORE DETAILS, PLS CONTACT US OR OUR DISTRIBUTOR.

HARDNESS TESTER ACCESSORIES

INDENTERS






We offer a wide range of indentors,also offer special adapters for indentors to enlarge the field of application.We also can customize according to the drawing







Rockwell Indenter	Model No.	Photo	
Rockwell type 120° diamond cone	PRI-001		
Steel Rockwell ball indenter - 1/16"	PRI-002		
Steel Rockwell ball indenter - 1/8"	PRI-003		
Steel Rockwell ball indenter - 1/4"	PRI-004		
Steel Rockwell ball indenter - 1/2"	PRI-005		
Steel Rockwell ball indenter -1.588mm	PRI-006		
Steel Rockwell ball indenter -3.175mm	PRI-007		
Steel Rockwell ball indenter -6.35mm	PRI-008		
Steel Rockwell ball indenter -12.7mm	PRI-009		
Carbide Rockwell ball indenter - 1/16"	PRI-010		
Carbide Rockwell ball indenter - 1/8"	PRI-011		
Carbide Rockwell ball indenter - 1/4"	PRI-012		
Carbide Rockwell ball indenter - 1/2"	PRI-013		
Carbide Rockwell ball indenter-1.588mm	PRI-014		
Brinell Indenter	Model No.		Photo
Carbide ball indenter - Ø2.5mm	PBI-002		
Carbide ball indenter - Ø 5mm	PBI-003		
Carbide ball indenter - Ø 10mm	PBI-004		
Carbide ball- Ø 2.5mm	PBI-006		
Carbide ball- Ø 5mm	PBI-007		
Carbide ball- Ø 10mm	PBI-008		
Vickers diamond indenter 136°	PMI-001		
Knoop diamond indenter 172°	PMI-002		
Micro Vickers 136°indenter extra length 29mm	PMI-003		
Micro diamond indenter	PMI-004		

STANDARD HARDNESS BLOCKS

Standard Rockwell hardness blocks, standard Brinell hardness blocks, standard Vickers hardness blocks, standard Leeb's hardness blocks and Knoop hardness blocks meet the requirements of relevant ISO, ASTM, DIN standards.

Blocks	Scale	Dimension MM	Model No.
Rockwell hardness standard block	20-40 HRA 45-75 HRA 80-88 HRA 50-80 HRB(W) 85-100 HRB(W) 20-30 HRC 35-55 HRC 60-70 HRC 40-47 HRD 55-63 HRD 70-77 HRD	Φ60×10	 RB-1T
Plastic rockwell hardness block (Bronze)	70-94HRE 100-120HRL 85-100HRM 114-125HRM	Φ60×10	 RB-2T
Surface rockwell hardness standard block	88-92HR15N 74-82HR30N 45-55HR30N 45-55HR45N 85-91HR15T 70-80HR30T 54-72HR45T	Φ60×10	 RB-3T
Brinell hardness standard block	(100-600)HBW 10/3000 (100-600)HBW 5/750 (100-600)HBW 2.5/187.5 (75-125)HBW 10/1000 (75-125)HBW 5/250 (75-125)HBW 2.5/62.5 (100-350)HBW 10/1500 (100-250)HBW 10/500 (150-250)HBW 1/30	Φ90×16	 BB-1T
Vickers Hardness standard block	190-750 HV5 190-750 HV10 190-750 HV20 190-750 HV30	Φ60×10	 VB-1TR

Micro-hardness block	700-800 HV1 700-800HV0.5 700-800HV0.2 400-600HV0.2 400-600HV0.1 175-300 HV0.1 175-300 HV0.05	$\Phi 25 \times 5$	 <p style="text-align: center;">MB-1TR</p>
Knoop hardness standard block	800-900 HK1 800-900 HK0.5 800-900 HK0.3 800-900 HK0.2 400-600 HK0.2 400-600 HK0.1 200-300 HK0.1 200-300 HK0.05	$\Phi 25 \times 5$	 <p style="text-align: center;">KB-1T</p>
Barcol Hardness Test Block	42-55HBa 82-88HBa	$\Phi 30 \times 0.8 \text{mm}$	 <p style="text-align: center;">BB-1T</p>
Webster Hardness Test Block	10-20HW aluminum 6-10HW aluminum	150x25x2mm	 <p style="text-align: right;">WB-1T</p>
Leeb Hardness standard block	750-850HLD 590-670HLD 490-570HLD	$\Phi 90 \times 55$	 <p style="text-align: right;">LB-1T</p>
	550-630HLG 460-540HLG	$\Phi 120 \times 70$	

HARDNESS TESTER STAND



Model No.

PS-13

APPLICATION

Hardness tester stand is designed to fit all standard Rockwell hardness testers, Brinell hardness testers and Vickers hardness testers. **92MM** diameter hole is machined to allow for spindle travel on Rockwell hardness testers

FEATURES

Depth: 700MM Width:
500MM Height: 776MM
GW: 51KG



***ABRASIVE CUTTER
PRECISION CUTTER
MOUNTING PRESS
VACUUM MOUNTING PRESS
GRINDING POLISHING MACHINE
5-STATION HAND GRINDER
ABRASIVE BELT SURFACE GRINDER
METALLURGICAL MICROSCOPE
ELECTROLYTIC POLISHER
METALLOGRAPHIC CONSUMABLES
SPECIMEN LEVELING PRESS***



ABRASIVE CUTTER METCUT M60

ABRASIVE CUTTER METCUT M60 can be widely used to cut various metal materials in metallography laboratories. The equipped cooling system can clear up the heat produced during cutting so that it will avoid the metallography structure deforming of specimen because of heating fluence. Besides various metal materials, this machine can also be used to cut other non-metal material such as plastic, rubber hose etc.

TECHNICAL SPECIFICATION

- Max. cutting diameter: 30x30mm
- Sand wheel specification: 250 x 2 x 32mm
- Sand wheel rotating speed: 2800 rpm
- Motor: 1.1 KW
- Power supply: 3 phase ,380V, 50Hz.
- Dimensions: 65 x 45 x 40 cm
- Net weight: 60 Kg



ABRASIVE CUTTER ECOCUT 50/35

FEATURES:

- Adopts high speed rotating thin grinding wheel to cut specimen, and it is equipped with cooling system to prevent the heat damage during cutting.
- The operation is easy and the maintenance is convenient.

Model No.	ECOCUT 50	ECOCUT 35
Max Cutting section	55 x 55 mm	35 x 35 mm
Cutting Disc Size(mm)	300x2x32	250x2x32
Rotation speed	2860r/min	
Power Supply	Y90L-2/ 2.6KW 380V/50Hz	Y802-2/ 1.2KW 380V/50Hz
Dimensions	740x465x390mm	650 x400x350mm
Net Weight	70Kg	55Kg



ABRASIVE CUTTER METCUT M60

METCUT M61 can be used to cut various metal and non-metal materials to get the specimen and observe the metallographic or lithofacies structure. It has a cooling system so as to clear up the heat produced during cutting and avoid to burn the metallographic or lithofacies structure of specimen because of superheating. This machine has stainless machine body and worktable, and it features easy operation and reliable safety.

FEATURES:

- Abrasive Cutter adopts closed structure
- Large observation window safe viewing
- Equipped with lighting lamp Led lighting
- A quick clamping mechanism for easy to clamp samples.
- 50 Liter Cooling water tank, for circulating cooling liquid
- Flush nozzle, easy to clean cutting table
- Stainless machine body and worktable

TECHNICAL SPECIFICATION

Power supply: 220V, 60Hz
 Rotating speed of the main shaft: 2800 rpm
 Max. cutting diameter: Ø60mm
 Cutting Wheel Diameter: 250 x 1.5 x 32mm Motor: 2.2KW
 Dimensions: 750 x 620 x 450mm
 Weight: approx. 82kg.



ABRASIVE CUTTER METCUT M80

ABRASIVE CUTTER METCUT M80 can be used for cutting of normal metallography and lithofacies materials. The equipped cooling system can clear up the heat produced during cutting so that it will avoid the metallography structure deforming of specimen because of heating fluence. The cutting against rock and ceramics materials must be equipped with diamond sand wheel (diamond sand wheels need to be ordered specially). This machine features easy operation and reliable safety. It is the ideal specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

TECHNICAL SPECIFICATION

- Max. cutting diameter: Ø80mm
- Sand wheel specification: 250 x 2 x 32mm
- Outside 60L water cooling system
- Quick clamping vice, LED lighting system
- T-slot working table, double-driving vise
- Sand wheel rotating speed: 2800 rpm
- Cutting table size 230x240mm
- Power: 380V 50Hz Motor 2.2KW 3 phase
- Dimensions: 75 x 70 x 68 cm
- Net weight: 180Kg



ABRASIVE CUTTER METCUT M100

ABRASIVE CUTTER METCUT M80 can be used for cutting of normal metallography and lithofacies materials. The equipped cooling system can clear up the heat produced during cutting so that it will avoid the metallography structure deforming of specimen because of heating fluence. The cutting against rock and ceramics materials must be equipped with diamond sand wheel (diamond sand wheels need to be ordered specially). This machine features easy operation and reliable safety. It is the ideal specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

TECHNICAL SPECIFICATION

- Max. cutting diameter: Ø100mm
- Sand wheel specification: 350 x 2.5 x 32mm
- Outside 60L water cooling system
- Quick clamping vice, LED lighting system
- T-slot working table, double-driving vise
- Sand wheel rotating speed: 2800 rpm
- Cutting table size 230x240mm
- Power: 380V 50Hz Motor 2.2KW 3 phase
- Dimensions: 80 x 79 x 69 cm
- Net weight: 195Kg



ABRASIVE CUTTER METCUT 250

METCUT 250 manual wheel feed abrasive saw has been designed for cutting and sectioning materials ranging from soft aluminum metals to hardened tool steels. It is ideal for the metallographic laboratory, as well as for small industrial or production applications.

MetCut 250 is very robust and durable with cast aluminum alloy and stainless steel construction. Featuring a corrosion-free stainless steel t-slot table, fabricated metal cover, a powerful 2.5KW 3-phase 3400 rpm motor, utilizing either 230mm or 250mm diameter abrasive blades, 32 mm (1.25-inch) arbor, 12 gallon recirculation tank and easy to use quick clamping cam lock vises.

Cut-off size	Max diameter 250 mm (10")
Cutting capacity	Max diameter 75 mm (3")
Wheel feed	Yes
Table feed	No
Table Dimensions	210 mm x 230 mm (8.3" x 8.9")
Operation	Manual
Cooling Unit	16 gallons (60 liters)
Motor power	3.5 hp
Electrical Specification	220 V or 380V 50/60 Hz (3 phase) -standard



ABRASIVE CUTTER METCUT 270

METCUT 270 is a manual wheel feed cutter. This allows for the samples to be positioned in the x,y and z-axis positions.

Applications: -Ferrous metals -Non-ferrous metals -Foundry castings -Power metallurgy -Heat treated parts -Specialty alloys -Wrought metals.

Wheel and Table Feed Cutters

• Highly reproducible • Easy to use • User friendly • Robust and durable design • Low cost • Easy to service • Support bench (optional) Benefits • Wheel feed controlled cutting • Cutting capacity up to 4 inches (100 mm) solid stock sample using a 300 mm (~12-inch) blade • Powerful 5.5 hp (4 KW) motor • Twin t-slotted stainless steel table • Electronic braking system

Clamping Devices Proper clamping or fixturing is required to prevent blade breakage and to optimize the cut. Vises range from a vertical clamping vise to fast cam locking devices.



TECHNICAL SPECIFICATION

Cut-off size	300x32x2.0mm
Cutting capacity	Max diameter 100 mm (4")
Wheel feed	Yes
Table feed	Yes
Table Dimensions	316 mm x 260 mm (12" x 9")
Operation	Manual
Cooling Unit	16 gallons (60 liters)
Motor power	5.5 hp (4 kW)
Motor speed	50 Hz 2880 rpm 60 Hz 3460 rpm
Dimensions (WxDxH)	900x860x650 mm (35.4 x 34 x 62-inch)
Weight	160 kg (350 lbs)
Electrical Specification	Standard 208Y 3-phase (380V or 480V 3-phase optional), 50/60 Hz

Clamping Systems



Fast Cam Locking Vise



ABRASIVE CUTTER(QUICK CLAMP) METCUT M63

ABRASIVE CUTTER METCUT M63 (rapid clamp) is used for cutting the metallographic specimens with irregular shapes such as cylinder, polygon etc., so as to observe the metallographic and lithofacies structure of the material. It adopts the fully-sealed structure with double shields, which can guarantee the safety of operator. The cooling system with good coolant can take away the heat of cutting so as to protect the structure of specimen from being burned. During cutting, the specimen can be adjusted in any angles, which helps to avoid the minor burning when the specimen is cut to fall. At the same time the cutting cross section is increased, thus the utilization ratio of cutting sand wheel is improved. This machine, featuring convenient operation and reliable safety, is the necessary equipment for specimen preparation in laboratories, college researching institutes and factories.

TECHNICAL SPECIFICATION

- Max. Cutting diameter: Ø65mm
- Quick clamp.If no quick clamp,Model No. METCUT M62
- Rotating speed: 2800 rpm
- Diameter of cutting sand wheel: 250 x 2 x 32 mm
- Power supply: 380V, 3-phase, 50Hz
- Motor: 1.5 KW
- Dimensions: 87 × 55 × 112 cm



ABRASIVE CUTTER ECOCUT 100/120

ABRASIVE CUTTER ECOCUT 100/120 is used to chiefly cut the specimen with cylinder-shaped, multi-angular and ordinary metallurgical specimens with convex space. With a double-cover fully-sealed structure and double clipping clamp structure, which can guarantee the absolute safety under the state of cutting.

TECHNICAL SPECIFICATION

Model No.	ECOCUT 100	ECOCUT 120
Max. cutting section	100 x 100 mm	120 x 120 mm
Cutting disc size	φ 350×2.5× φ 32	φ 400×3× φ 32
Rotate Speed	2800 r/min	2800 r/min
Cutting power	112M-2,4KW	112M-2,4KW
Cutting power	380V, 50Hz	380V, 50Hz
Machine Dimensions	800×660×1380mm	760×850×1400mm
Net Weight	315 Kg	380 Kg



AUTOMATIC ABRASIVE CUTTER METCUT A80/A100

AUTOMATIC ABRASIVE CUTTER METCUT A80/A100 is equipped with big cutting room and movable T-shape work table. Therefore this machine have the ability of cutting rectangle and large specimens. Also the equipped separate type vice is very convenient for operator to clamp various heterotypic workpieces.

FEATURES:

- Various cutting data can be displayed on high definition backlight type LCD screen.
- Manual and automatic cutting switchable
- Non-burning loss swing type cutting
- Bidirectional feeding means increase the length of deep cutting
- Total 7 levels cutting speed setting

TECHNICAL SPECIFICATION

Model No	GENCUT A80	GENCUT A100
Cutting Diameter	φ80mm	φ100mm
Cutting Speed	2.25, 3, 4, 5, 7, 9, 12, 15mm/min	2.25, 3, 4, 5, 7, 9, 12, 15mm/min
Max. cutting volume	Ø80mm x 200mm	Ø100mm x 200mm
Rotate Speed	2100rpm	2100rpm
Cutting Disc Size	350 x 2.5 x 32mm	350 x 2.5 x 32mm
Display	LCD with backlight	LCD with backlight
Power Supply	3Phase/380V/50Hz	3Phase/380V/50Hz
Machine Dimension	780 x 800 x 600mm	930 x 700 x 610mm



AUTOMATIC ABRASIVE CUTTER GENCUT 200

is suitable for cutting precision various materials with strong ability, high reliability, easy operation. The machine consists of machine body, electrical control tank, super cutting room, and cooling system, supporting more economical and convenient cutting models. Meanwhile the user can define cutting models. Meanwhile the user can define cutting speed and track. At the same time, this machine have following features, such as self-test, security. Running tips in order to improve the quality of cutting sample. It is one necessary equipment in laboratory of colleges, research institutes and factories.

TECHNICAL SPECIFICATION

Input voltage	380v/50HZ
Feed speed	0.1-15mm/m
Spindle speed	2200RPM
Cut-off wheel	Φ350×2.5×32mm
Cutting capacity(Max)	Φ100mm
Max Table Moving Distance	145mm(Only Y axis for Auto&Manu)
Working table distance	300mm
Water combinet	60L
Working light	LED light
Input power	3.3kw
Cutting motor	3kw
Dimensions	960mm×855mm×735mm
Table Dimension	330mm×280mm
Net weight	285kg
optional	Cabinet / Transversal worktable (X axis)



AUTOMATIC ABRASIVE CUTTER GENCUT 220

is suitable for cutting precision various materials with strong ability, high reliability, easy operation. The machine consists of machine body, electrical control tank, super cutting room, and cooling system, supporting more economical and convenient cutting models. Meanwhile the user can define cutting models. Meanwhile the user can define cutting speed and track. At the same time, this machine have following features, such as self-test, security. Running tips in order to improve the quality of cutting sample. It is one necessary equipment in laboratory of colleges, research institutes and factories.

TECHNICAL SPECIFICATION

Input voltage	380v/50HZ
Feed speed	0.1-15mm/m
Spindle speed	2200RPM
Cut-off wheel	Φ350×2.5×32mm
Cutting capacity(Max)	Φ100mm
Max Table Moving Distance	145mm(Only Y axis for Auto&Manu)
Working table distance	300mm
Spindle Z lifting range	50mm
Input power	3.3kw
Cutting motor	3kw
Water combinet	60L
Working light	LED light
Dimensions	960mm×855mm×735mm
Table Dimension	330mm×280mm
Net weight	285kg
optional	Cabinet / Transversal worktable (X axis)



AUTOMATIC ABRASIVE CUTTER PENTA 110

FEATURES

- PETA-110 series various cutting modes can satisfy different cutting requirements from the customers.
- PETA-110 can be loaded with the cutting discs maximum diameter 300mm and equipped with XYZ three-axis rocker and 7-inch touch screen. It can achieve table-feed cutting (Y axis), chop cutting (Z axis), and segment cutting (YZ axis). The flexible cutting method avoids the damage of the sample in cutting process.
PETA-110 offers the following 3 optional models:
- **PETA-110 Pro Automatic Cutting Machine:** LCD Touch Screen, Three-Axis Rocker Control, X-Axis, Y-Axis, Z-Axis automatic cutting system. Adjustable speed of cutting disc: 1000-3500rpm, the maximum cutting diameter 110 mm. The maximum cutting section: 80x200mm. Laser Positioning. Various cutting modes can realize automatic adjustment of cutting speed in Y and Z directions, pulse cutting and step cutting.
- **PETA-110 MY manual/automatic integrated semi-automatic cutting machine:** LCD Touch Screen. Single-axis Y-Axis rocker, only Y Axis can realize automatic feed and pulse cutting. Z-Axis manual hand-wheel control can realize Z-Axis manual cutting. Cutting disc speed is not adjustable: 2800rpm.
- **PETA-110M manual cutting machine:** No LCD touch screen, operate by control panel and button. Y-axis movement controlled by hand-wheel, it can realize Y-Axis manual feed cutting. Z-axis cutting disc is also controlled by manual. Cutting disc speed is not adjustable: 2800rpm.
- PETA-110 is equipped with a caster-movable circulating cooling water tank. Capacity 80L. There are 2 optional filtering type:
 1. 100µm filter basket (standard)
 2. Magnetic filter (optional);
- **PETA-110 offers the following fixtures:**
 1. Quick fixture for both right and left side (standard matching);
 2. Vertical fixture;
 3. Vertical fixture with chain;
 4. Customized fixture;



Model No.	PETA-110 Pro	PETA-110AY	PETA-110MY	PETA-110M	
Max. Wheel Diameter	Φ300mm	Φ300mm	Φ300mm	Φ300mm	
Min. Wheel Diameter	Φ200mm	Φ200mm	Φ200mm	Φ200mm	
Max. Cutting capacity. Φ	Φ110mm	Φ110mm	Φ110mm	Φ110mm	
Max. Capacity. Cutting HxD	80x200mm	80x200	80x200	80x200	
Z-Axis Travel mm	150	150	150	150	
Y-Axis Travel mm	200	200	200	200	
X-Axis Travel mm	80	-	-	-	
T-table Dimensions , mm	280x536 (636)	280x636	280x636	280x636	
T-Slot Dimension mm	12	12	12	12	
Cutting motor power Kw	4	4	4	4	
RPM Wheel Speed	800-3500	800-3500	2800	2800	
Control Panel	7 inch Touch Screen	7 inch Touch Screen	7 inch Touch Screen	Buttons	
Cutting method	SmartCutting	Auto	Auto	Auto	Manual
	ChopCutting , Z- Axis	Auto	Auto	Manual	Manual
	Table Feed Cutting Y- Axis	Auto	Auto	Auto	Manual
	PulseCutting	Y-Axis Z-Axis	Y-Axis	Y-Axis	-
	SegmentCutting	Yes	Z-YesA	-	-
Cutting Feed rate , mm/s	0.01-5.0	0.01-5.0	0.01-5.0	-	
Laser Alignment	Yes	Option	Option	Option	
Weight , Kg	370	370	370	370	
Recirculation coolant	80	80	80	80	

PRECISION CUTTER METCUT 150

PRECISION CUTTER METCUT 150 with touch controls. Fits 3-inch (75 mm) up to 7-inch (175 mm) diameter blades. Features: Variable speed from 300-1500 rpm cutting with digital speed readout, precision micrometer, counterbalanced sliding load system, automatic cut-off switch, with coolant system (built-in coolant tank for 5-7 inch blades, external coolant tank for 75-100mm blades), magnetic safety switch for the hood, and emergency stop button. MetCut 150 has a built in transformer so it can be operated at either 110V or 220V by the flip of a switch.

TECHNICAL SPECIFICATION

Model No.	METCUT 150
Cutting capacity	Max diameter 50 mm (2")
Cut-off blade size	Min. diameter 75-100 mm (3"-4") Max. diameter 125-175 mm (5-7")
Arbor size	12.50mm
Variable Speed (rpm)	300-1500 rpm continuously adjustable with LED speed display
Cutting Load	0-1000 gram load
Micrometer feed distance	0-25 mm (0 to 1-inch)
Micrometer accuracy	2 microns
Motor power	85 W
Electrical Specification	110V/220V (50/60 Hz) (single phase)
Dimensions W x H x D	410x 410 x 330mm
Weight	40KG



STANDARD DELIVERY

- Included with the saw
- Double parallel vise
- Specimen adhering vise
- Specimen vise for irregular shaped specimens
- Treadrop holder for 18-41mm(0.7-1.6 inch) roundspecimens
- Specimen vise for fastener
- Dressing unit

PRECISION CUTTER METCUT 160

PRECISION CUTTER METCUT 160 can be used to cut material, electronic element, electronic element, crystals, hard alloy, rock sample, core sample, concrete, organic materials, biological materials (teeth, bones), etc. It applies precise cutting without deformation.

The device features high-power servo motor driving, high locating accuracy, large range of speed, high cutting power, internal circulation cooling system, preinstall feed speed, menu control and liquid crystal display, etc. The users are free to define the cutting method. It is an ideal precise cutting machine which can be used in industrial and mining enterprises, scientific research institutes to prepare high quality samples.

TECHNICAL SPECIFICATION

- Feeding speed: 0~30mm/min(increment 0.01mm)
- Speed: 300~5000rpm
- Max cutting section: ϕ 60mm
- Maximum stroke: Y axis 200mm
- Cutting wheel: 200 x 1.0 x 32mm ;
- Cutting power: 1100W
- Power source: 220V 50HZ
- Overall Dimension:
- 700mm×720mm×410mm
- Weight: approx. 130 KG



STANDARD DELIVERY

- Water tank
- Drain-pipe and Water inlet pipe
- Diamond cutting disc
- Cutting lubricant
- Instruction Manual



MOUNTING PRESS METMOU 300

METMOU 300 is designed for purpose of the last process before polishing. It is setting up those small, difficult-to-hold or irregular specimens for metallographical test. It can facilitate polishing and watch properly the ideal material structure and measure the hardness of the material by hardness tester. The inserts for this machine are limited to thermosetting materials only. The punching temperature of different thermosetting materials can be adjusted depending upon the features of materials.

TECHNICAL SPECIFICATION

Model No.	METMOU 300-22	METMOU 300-30	METMOU 300-45
Sample diameter	φ22mm	φ30mm	φ45mm
Heating Range	Max190°C		
Holding time range	0-30min		
Machine Power	≅ 800w		
Input voltage	220V/50HZ		
dimension	260mm×360mm×450mm		
Net weight	35kg		



AUTOMATIC MOUNTING PRESS METMOU 400

METMOU 400 is suitable for tiny or irregular metallographic, lithofacies specimen to be mounted so that the sample will be cut or grinded and polished, and then metallography, spectral measurement or hardness testing. This machine adopts 7" big LCD screen display, which has the function of real-time temperature, holding time, cooling temperature. The complete process which is heating, constant pressure, cooling and sample preparation is controlled by the CPU. The equipment can automatically press, heat and set the temperature condition in a minute. It is easy for us to operate the equipment with the stop button. After the sample preparation, the equipment may show prompt alarm and automatic pressure relief, automatic cooling, which can achieve the idea effect. It is one necessary equipment in laboratory of colleges, research institutes and factories.

TECHNICAL SPECIFICATION

Model No.	METMOU 400-22	METMOU 400-30	METMOU 400-45
Sample diameter	φ22mm	φ30mm	φ45mm
Heating power	450~1000w		
Heating Range	100-200°C		
Cooling Range	20°C~90°C		
Holding time Range	0-999(s)		
Input Voltage	Single-phase 220V 50HZ		
Cooling mode	Water /slow Cooling		
Dimension	350mm×400mm×465mm		
Net Weight	48kg		



AUTOMATIC MOUNTING PRESS METMOU 500

METMOU 500 AUTOMATIC MOUNTING PRESS is a full automatic mounting press, equipped with in-out water cooling system. It is suitable for the heat mounting (thermo-hardening & thermoplastic) for all kinds of materials. After the parameters such as heating temperature, heat preserving time and applied force etc. are set up, put the specimen and mounting material into the machine, close the cover and press the start button, then the machine will finish the job automatically. It is not necessary for the operator to be on duty. According to different requirements of the material, there are four kinds of moulds that can be chosen to meet the demands at will. Also it is available to prepare two pieces of specimens at the same time, the capacity is doubled.

TECHNICAL SPECIFICATION

- Diameter of specimen: Ø25mm, Ø30mm, Ø40mm, Ø50mm
- Power supply: 220V, 50Hz
- Max. power consumption: 1800W
- Setting range of system pressure intensity: 0-2MPa (corresponding preparing pressure intensity: 0-72MPa)
- Temperature setting range: 0-300 °C
- Heat preserving time: 0-99m99s
- Dimensions: 615 × 510 × 500 cm
- Net weight: 110Kg
- Cooling method: water cooling



AUTOMATIC MOUNTING PRESS METMOU 510

METMOU 510 AUTOMATIC MOUNTING PRESS is a kind of full automatic mounting press, equipped with double working positions and in-out water cooling system. It is suitable for the hot mounting (thermo-hardening & thermoplastic) for all kinds of materials. After the parameters such as heating temperature, heat preserving time etc. are set up, put the specimen and mounting material into the machine, close the cover and press the start button, then the machine will finish the job automatically. It is not necessary for the operator to be on duty. According to different requirements of the material, there are four kinds of moulds that can be chosen to meet the demands at will. It is the ideal specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

TECHNICAL SPECIFICATION

- Mould diameter: Ø25mm, Ø30mm, Ø40mm, Ø50mm
- Double working positions which increase the sample preparing capacity
- Touch screen LCD operation, automatic mounting process
- Equipped with water cooling system
- Cooling method: water cooling
- Heater: 850W
- Total power consumption: 1000W
- Power supply: single phase, 220V, 50Hz
- Dimensions: 670 x 590 x 510mm
- Net weight: 140Kg



VACUUM MOUNTING PRESS METMOU 200

The machine consists of a vacuum chamber, an indexing assembly, a fuselage assembly, a feed assembly, and a vacuum pump. This model can realize multi-sample setting, which can be quickly converted between each station to improve work efficiency.

TECHNICAL SPECIFICATION

Vacuum Chamber Diameter	φ260mm
Transposition Speed	5r/min
Sample Diameter	φ25~50mm、
Voltage	220V or 110V



AUTO GRINDING POLISHING MACHINE AUTPOL 300/320

Automatic polishing machine AUTPOL 300/320 is one kind of double disc type machine, which is the new generation of high precision, the sample preparation process of automated manufacturing using the international advanced technology according to international standards. This machine adopts the advanced microprocessor control system, which makes the grinding disc, grinding head speed, sample preparation pressure, time setting. The machine is applied more widely with the function of low noise and aluminum base. The machine is applicable to rough grinding, fine grinding, coarse polishing and polishing process as well as it is an ideal equipment for enterprises, scientific research institutions and colleges laboratory.



Model No.	AUTPOL 310	AUTPOL 320
Wheel diameter	φ250mm(200mm,300mm optional)	φ250mm(200mm,300mm optional)
Wheel quantity	1	2
Rotational rotation	Clockwise or anticlockwise	Clockwise or anticlockwise
Rotational speed	50-1000r/min&150/300r/min	50-1000r/min&150/300r/min
Power head speed	5-150r/min	5-150r/min
Loading range	5-60N	5-60N
Sample preparation time	0-9999S	0-9999S
Sample diameter	φ30mm(Φ22mm , Φ25mm,Φ40mm , Φ45mm , Φ50mm optional)	φ30mm(Φ22mm , Φ25mm , Φ40mm , Φ45mm , Φ50mm optional)
Preparation sample qty	6 PCS	6 PCS
Air pressure	0.6-0.8MPa	0.6-0.8MPa
Lighting	LED	LED
Input Voltage	AC220V 50HZ	AC220V 50HZ
Input power	1.1kw	1.1kw
Dimension	790mm ×566mm ×677mm	730mm X710mm X635mm
Net weight	93kg	98kg

SEMI-AUTO GRINDING POLISHING MACHINE AUTPOL 220/240

Grinding/polishing head

- Power: 200V or 380V 50/60HZ
- Rotate speed: 50 rpm/min
- Sample force: 0-40N
- Sample capacity: 3pcs weight:15kg

Model No.	SEMI-AUTPOL 220	SEMI-AUTPOL 240
Working Disc	1	2
Wheel diameter	φ250mm (200mm,300mm optional)	φ250mm (200mm,300mm optional)
Rotational speed	0-1400r/min	0-1400r/min
Constant speed	150r/min 、 300r/min、 600r/min、 1000 r/min	150r/min 、 300r/min、 600r/min、 1000 r/min
Emergency stop	YES	YES
Rotational direction	Clockwise or anticlockwise	Clockwise or anticlockwise
Input voltage	AC220V 50Hz	AC220V 50Hz
Wheel quantity	1PC	2PC
Input power	0.75KW	0.75KW
Dimension	594mm x795mm x310mm	758mm x785mm x310mm
Net weight	50kg	45kg



Automatic Grinding Polishing Machine AUTPOL GP100/GP120

AutoPOL GP are automatic grinder and polisher for metallographic specimen preparation. The strong and variable speed drive allows application for all working steps. The adjustable individual piston polishing heads can polish 1 to 6 specimens independent of each other.

FEATURES

- Simple operation for grinding and polishing
- Variable speed. Preset three fast speed buttons
- Adjustable piston pressure polishing head for polishing 1-6 specimens independent of each other
- CCW and CW direction control
- The water hose with universal direction can be pulled out for cleaning the basin
- Plastic disposable bowl liner for ease of cleaning
- Hard anodized aluminum working wheel
- Durable composite construction, antirust
- Powder coated aluminum housing, durable and reliable



AUTPOL GP120



AUTPOL GP100



TECHNICAL SPECIFICATION

Model No.	AUTPOL GP100	AUTPOL GP120
Wheel (mm)	Φ250mm	
Speed(rpm)	100-1000rpm , can be customized	
Wheel	1	2
Motor	550W	
Mode	Automatic	
Speed of head(rpm)	50-200	
Holder(mm)	Φ30x6pcs , Other sizes customerized	
Pressure	Individual Piston	
Motor of Head	90W	
Power	220V	
Paper Ring	•	•
Splash guard	•	•
Cover	•	•
Grinding paper	•	•
Polishing Cloth	•	•

Grinding Polishing Machine METPOL PM-1

It is suitable for pre grinding, grinding and polishing metallographic specimens. The machine is equipped with cooling system that can cool down the specimen during pre-grinding so as to prevent overheating and damage the metallographic structure. Featuring easy operation and reliable performance, it is an indispensable device for the factories, research institutions and college labs to prepare metallographic specimen

Wheel diameter	Φ203mm
Constant speed	450 r/min (left)
Emergency stop	YES
Rotational direction	anticlockwise
Input voltage	AC220V 50Hz
Wheel quantity	1PC
Input power	370W
Dimension	595mm x785mm x320mm
Net weight	42kg



Grinding Polishing Machine METPOL PM-2

It is suitable for pre grinding, grinding and polishing metallographic specimens. The machine is equipped with cooling system that can cool down the specimen during pre-grinding so as to prevent overheating and damage the metallographic structure. Featuring easy operation and reliable performance, it is an indispensable device for the factories, research institutions and college labs to prepare metallographic specimen

Wheel diameter	Φ203mm
Constant speed	450 r/min (left)、600 r/min (right)
Emergency stop	YES
Rotational direction	anticlockwise
Input voltage	AC220V 50Hz
Wheel quantity	2PC
Input power	370W
Dimension	755mm x780mm x310mm
Net weight	56kg



Grinding Polishing Machine METPOL 400/401/402

It is suitable for pre grinding, grinding and polishing metallographic specimens. Since the machine is speed-adjusted by microprocessor, it can run at a revolution of 0 to 600rpm/1000rpm/1400rpm, which favors the machine with wide applications. The machine is equipped with cooling system that can cool down the specimen during pre grinding so as to prevent overheating and damage the metallographic structure. Featuring easy operation and reliable performance, it is an indispensable device for the factories, research institutions and college labs to prepare metallographic specimen.

Model No.	METPOL 400	METPOL 401	METPOL 402
Wheel diameter	Φ203mm	Φ250mm	Φ300mm
Rotational speed	0-1400r/min	0-1000r/min	0-600r/min
Constant speed	150r/min、300r/min、600r/min、1000 r/min		150r/min、300r/min、450r/min、600r/min
Emergency stop	YES		
Rotational direction	Clockwise or anticlockwise		
Input voltage	AC220V 50Hz		
Wheel quantity	1PC		
Input power	0.75KW		
Dimension	594mm x795mm x310mm		
Net weight	40kg		



Grinding Polishing Machine METPOL 420/421

H\Jg[f]bXYf'dc\]g\Yf\]g\Xci V'Y'd'UH' " h\]g\g\]hUV'Y'Zc'f'dfY' [f]bX]b[z
 [f]bX]b['UbX'dc\]g\]b['a YHU'c[fUd\]WgdYV]a Ybg'G]bW' h\Y'a UWX]bY'
]g\gd'YYX! UX' gYX'Vmia]W'c'df'c'Wgg'f'z]h'WU' b'U'U'f'Y' c'i h]c'b'c'Z'\$'
 hc' %\$\$\$fda #%(\$\$\$\$fda z'k \]W']Zj c'f'g'h\Y'a UWX]bY'k]h' k]XY'
 Udd']W]h]c'bg' h\Y'a UWX]bY']g'Yei]dd'YX' k]h' V'c']b['g'g'h'Y'a 'h'U'U'W'U'
 V'c' 'X'ck b' h\Y'gd'YV]a Yb'Xi f]b['dfY! [f]bX]b['gc'Ug'hc'dfY] Ybh
 c] Yf\YU]h]b['UbX'X'Ua U[Y' h\Y'a YHU'c[fUd\]Wg'f'i V'h' fY'': YU'hi f]b['
 YU'g'm'c'd'Y'f]h]c'b'UbX'f'Y'U'V'Y'd'Y'f'z'f'a Ub'W'Z']h']g'Ub']bX]gd'Y'bg'U'V'Y'
 XY]]W'Z'c'f' h\Y'Z'U'W'c'f]Y'g'z'f'Y'g'Y'U'V'W']b]g]h' h]c'bg'UbX'V'e']Y']'U'V'g'hc'
 dfY'd'U'F'Y'a YHU'c[fUd\]W'gd'YV]a Yb''



Model No.	METPLO 420	METPLO 421
Wheel diameter	Φ203mm	Φ250mm
Rotational speed	0-1400r/min	0-1000r/min
Constant speed	150 r/min , 300 r/min、 600 r/min、 1000 r/min	
Emergency stop	YES	
Rotational direction	Clockwise or anticlockwise	
Input voltage	AC220V 50Hz	
Wheel quantity	2PC	
Input power	0.75KW	
Dimension	758mm x785mm x310mm	
Net weight	40kg	

Grinding Polishing Machine METPOL \$\$+

984GHE8'

- H\Jg'a cXY']g'h\Y'Y'W'bc'a]W' / 'dfU'W]W']b]g'f'i a YbhXY]g[bYX'Z'c'f'a YHU'c[fUd\]W'gd'YV]a Yb'dfY'd'U'f]b[' h'W'U' b'a Y'Y'h' h\Y'XY'a UbX'g'c'Z'gd'YV]a Yb'dfY'd'U'f]b['Z'f'c'a 'W'g'c'a Y'f'g] Y'f'm'k'Y''
- H\Jg'a cXY']g'XY]g[bYX'UbX'a Ubi Z'U'W' fYX'U'g'd'Y'f']b'h'Y'f'U'h]c'b'U'UX'j Ub'W'X'gd'YV]a Yb'dfY'd'U'f]b['h'Y'W'bc'c']m'
- 9ei]dd'YX'k]h'V'Y'U'i h]Z' 'Udd'Y'U'f'U'W' a UWX]bY'g'Y''UbX'g'h]b'Y'gg'g'h'Y'd'U'f]h'g'k \]W']bY'j Y'f'f'i g'h'
- 9ei]dd'YX'k]h'X'ci V'Y'a c'h'c'f'g/ 'X'ci V'Y'k'c'f_]b['X]g_'g'k \]W'Z'Y'U'hi f'Y'g']b'X'Y'd'Y'b'X'Y'bh'V'e'b'f'c'']b['H'Y'k'c'f_]b['X]g_'W'U'V'Y'W'U'U']YX'UbX'f'Y'd'U'W'X'g'k]z'h'i'



TECHNICAL SPECIFICATION

- 8]Ua Y'h'f'c'Z'k'c'f_]b['X]g'W'g'##' ` f'Y'g'Z'g' # ` 'bc'g'baT'f'l
- F'c'h]h]b['gd'Y'Y'X'c'Z'k'c'f_]b['X]g'W'h'k'c'! 'Y'j'Y' V'e'b'g'U'bh'g'd'Y'Y'X'c'Z' '\$' # '\$\$'f'da ''
'f'c'f' % '\$' # '\$\$'f'da]g'c'd'h]c'b'U'k
- D'c'k'Y'f'g' d'd'm'h'f'Y'Y'd'U'g'Y'g'z' , \$]Z')\$<n''
- A'c'h'c'f' %&\$K #&) \$K *2
- 8]a Y'bg]c'bg' +\$'l' *, 'l' ' ' W'
- B'Y'h'k'Y][\h') \$'? [''

5-STATION HAND GRINDER METPOL 550

METPOL 550 5-station hand grinder offers the small lab the ability to prepare samples for macro viewing within minutes. This hand grinder offers 5 stations for coarse to fine grinding. With the addition of the 5th station a near polished specimen can be obtained using a 1200 (P4000) grit SiC paper. METPOL 550 has an easy to advance system for providing fresh abrasive for consistent and rapid grinding, it also has an adjustable flow valve for wet grinding as well.

FEATURES:

- 5-station hand grinder
- Wet or dry grinding
- Manual grinder
- Easy to change abrasive rolls
- Easy to use
- Robust and durable design
- Low cost
- Easy to service

Grinding stations	240 grit,360 grit,600 grit,800 grit,1200 grit
Construction	Aluminum casting
Cooling rinse system	Water control
Dimensions (W x L x H)	610 x 510 x 130mm



ABRASIVE BELT SURFACE GRINDER METBEL 300

METBEL 300 ABRASIVE BELT SURFACE GRINDER made according to the international standard and advanced process technique. It adopts sand belt to grind and polish the specimen. The different belts can be changed swiftly. This machine can be used to replace the disc grinder and manual type abrasive paper grinding. It only takes 1-2 minutes to for each belt to finish the operation. For the grinding of spectroscopy specimen, it is very economic to save time, labour and abrasive paper. This machine can be widely used in laboratories, researching institutes and factories.

TECHNICAL SPECIFICATION

- Distance between the centers of two rollers: 255mm
- Equipped with water cooling system
- Sand belt: 920mm x 100mm (L x W)
- Rotating speed: 1400 rpm
- Motor: 550W
- Power supply: 380V, 3-phase, 50Hz



ABRASIVE BELT SURFACE GRINDER METBEL 310

METBEL 310 ABRASIVE BELT SURFACE GRINDER made according to the international standard and advanced process technique. It adopts sand belt to grind and polish the specimen. The different belts can be changed swiftly. This machine can be used to replace the disc grinder and manual type abrasive paper grinding. It only takes 1-2 minutes to for each belt to finish the operation. For the grinding of spectroscopy specimen, it is very economic to save time, labour and abrasive paper. This machine can be widely used in laboratories, researching institutes and factories.

TECHNICAL SPECIFICATION

- Distance between the centers of two rollers: 255mm
- Equipped with water cooling system
- Sand belt: 920mm x 100mm (L x W)
- Rotating speed: 1400 rpm
- Surface speed: 768 rpm
- Motor: 550W
- Power supply: 380V, 3-phase, 50Hz
- Dimensions: 600 x 550 x 310 mm



XJP-17AT/17BT METALLURGICAL MICROSCOPE

XJP-17 metallurgical microscopes are used for identification and analysis of the structures in different metals and alloys. They are the important instruments for researching metallography in metal physics. The instruments can select special photography device to take euploid pictures of atlas metallograph. The instruments are suitable for scientific research, colleges and factory.

FEATURES

- With plan achromatic objectives with long working distance (no cover glass) and wide-field eyepieces, can get clear pictures and wide view field.
- Coaxial coarse/fine focus system, with tension adjustable and up stop, minimum division of fine focusing: 2 μ m.
- 6V 20W halogen lamp, brightness control.
- Trinocular is compensation, can switch to observe normally or to observe the Polarize, can send 100% of light to top photography port.

Observation System

- Binocular, single diopter adjustment, inclined 30°, comfortable & good-looking. Trinocular can be connected to the camera. 10X wide field plan eyepiece, field Ø18mm, can provide an expanse and smooth space for observation.

Mechanical Stage

- The circular chromeplate substage is located in the center of mechanical stage so that enable rotate the specimen in the polarization observation.

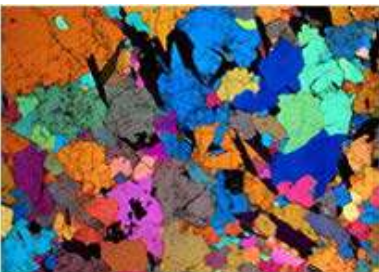
Illumination System

- Integrated illumination can make up the difference of halogens by adjusting the spacial position. The illumination mode is "Kohler illumination" and the adjustment of field and aperture diaphragm is achieved by turning the control plate, by adding the flashboard polarizer can be rotated from 0°~90°. the adjustment mode is smooth and comfort.

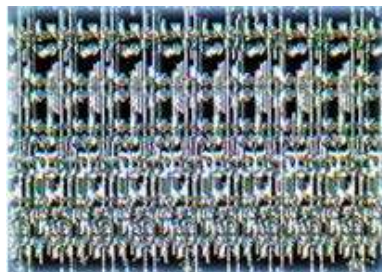
Photography Unit

- By adding the appurtenance such as CCD adapter, digital camera adapter and single-reverse digital camera adapter and etc. It can achieve high clear observation mode of camera and vidicon

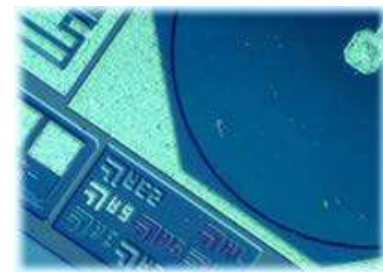
Digital camera photography:



Polarized observe



Bright type observe



Bright type observe



TECHNICAL SPECIFICATION

Model No.	XJP-17AT	XJP-17BT
Eyepiece	Wide field WF10X(Φ18mm)	
Objective	Plan achromatic objectives with long working distance (no cover glass) PL 10X/0.25 Plan achromatic objectives with long working distance (no cover glass) PL L20X/0.40 Plan achromatic objectives with long working distance (no cover glass) PL L40X/0.60 Plan achromatic objectives with long working distance (no cover glass) PL 100X/1.25(Spring, oil)	Achromatic objectives(no cover glass) 10X/0.25 Achromatic objectives(no cover glass) 20X/0.40 Achromatic objectives(no cover glass) SP 40X/0.65 Achromatic objectives(no cover glass) 100X/1.25(Spring, oil)
Eyepieces tube	Trinocular, Inclination of 30°	
Filter	Blue filter Green filter Yellow filter	
Focus system	Coaxial coarse/fine focus system, with tensional adjustable and up stop, minimum division of fine focusing: 2μm.	
Nosepiece	Quadruple(Ball bearing inner locating)	
Stage	Double layer mechanical (Size:180mmX150mm,moving range:15mmX15mm)	
Illumination	6V 20W halogen lamp, brightness control.	

INVERTED METALLURGICAL MICROSCOPE XJP-420

FEATURES:

- XJP-420 Infinite Optical System Providing Excellent Optical Functions. With the stable stand structure, advanced stage design and comfortable operation, it is widely used in institute and laboratory to observe and identify the structure of various metal and alloy.



TECHNICAL SPECIFICATION

Eyepiece	High-point , extra wide field eyepiece EW10×/ 20
Objectives	Infinite Plan achromatic objective 4X/0.1 Infinite Plan achromatic objective 10X/0.25 Infinite Plan achromatic objective 20X/0.4(s) Infinite Plan achromatic objective 40X/0.6
Viewing Head	Inclined 30°, interpupillary distance 48-75mm
Focusing	Coaxial coarse & fine adjustment, Vertical objective movement, Coarse stroke 37.7mm per rotation, Fine stroke 0.2mm per rotation
Mechanical Stage	Plain stage, stage layer Ø110mm, hole Ø10mm, Ø15mm, Ø25mm Moving range 120X78mm, loading plate 128X86mm
Nosepiece	Quintuple Nosepiece
Illuminator	6V/30W Halogen Lamp, Adjustable
Color Filter	Yellow, Blue , Green Color Filter, Ground Glass
Power Supply	AC220V/50Hz;110V/60Hz

OPTIONAL ACCESSORY

Product Name	Product Name
Infinite Plan Achormatic 5x/0.25	Infinite Plan Achormatic 80x/0.9
Infinite Plan Achormatic 100X/0.80	Mechanical 226x178mm
1xC-mount(Available for Digital Camera)	USB Camera USB-A1

XJP-410/410BD METALLURGICAL MICROSCOPE

XJP-410/410BD upright metallurgical microscopes are suitable to observe surface of opaque object or transparent object. They are equipped with excellent UIS optical system and modularization function design so that provided excellent optical quality and operation performance, update system expediently and provided observation in reflected or transmitted and mixed illumination, polarizing observation, dark field observation. These instruments have beautiful sculpt, convenient control and clear image. They are the ideal instrument in research work in biology, metallography, mineralogy, precision engineering, electronics, ect.

FEATURES

Observation System

- Eyepieces tube: single diopter adjustment, inclined 30° , Trinocular can be connected to the camera.
- 10X wide field plan eyepiece: field ϕ 22mm , can provide an expanse and smooth space for observation.
- objective:infinity plan achromatic objective.



Transmitted illumination system

- Collector for halogen lamp illumination and integrated field diaphragm it can provide clear and bright image. Abbe condenser NA.1.25 Rack & pinion adjustable.



Epi-illumination

- Integrated filed diaphragm, aperture diaphragm and filter switching device. Push-pull type analyzer and polarizer.
- XJP-410:6V 30W halogen lamp, adjustable brightness.
- XJP-410BD:12V 50W halogen lamp and adjustable brightness.
- XJP-410/410BD:Equipped with Y,B,G filters and frosted glass.

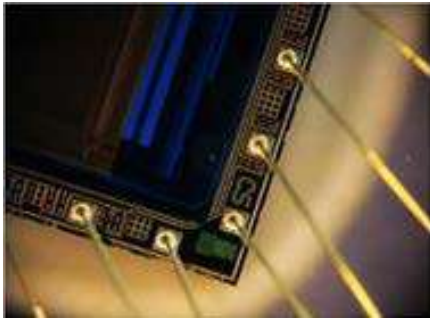


Dark field observation(for XJP-410BD)

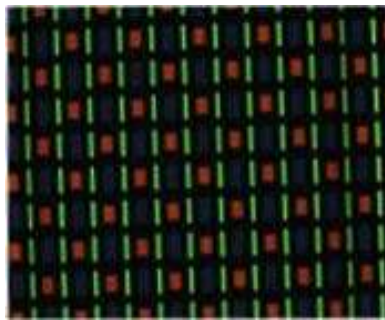
- Equipped high quality bright and dark field objectives and dark field illumination device. Avoid the stray light of illumination system and improve the image quality in the dark field.



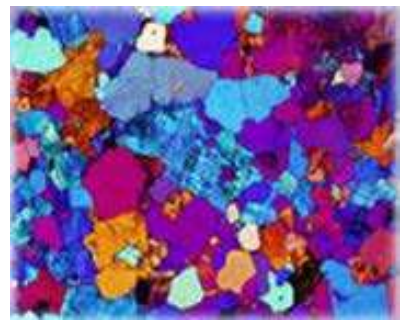
Digital camera photography:



Dark type observe



Bright type observe



Polarized observe

TECHNICAL SPECIFICATION

Eyepiece	10X wide field plan eyepiece and field of view number is $\Phi 22\text{mm}$, the eyepiece interface is $\Phi 30\text{mm}$		
Infinity plan achromatic objectives	XJP-410 (Equipped bright field objective)	PL L5X/0.12 working distance : 26.1 mm	
		PL L10X/0.25 working distance : 20.2 mm	
		PL L40X/0.60 working distance : 3.98 mm	
		PL L60X/0.70 working distance : 2.08mm	
	XJP-410BD (Equipped with dark / bright field objective)	PL L5X/0.12 BD working distance : 8.05 mm	
		PL L10X/0.25BD working distance : 7.86mm	
		PL L20X/0.40 BD working distance : 7.2mm	
		PL L40X/0.60BD working distance : 3.0 mm	
Eyepiece tube	Trinocular inclined 30°, pupil separation 53~75 mm.		
Focusing system	Coaxial coarse/fine focus system, with tension adjustable device, minimum division of fine focusing: 2.0 μm .		
Nosepiece	Quintuple (Backward ball bearing inner locating)		
Stage	Mechanical stage , overall size : 210mmX140mm , moving range: 63mmX50mm		
Illumination system	XJP-410	6V30W halogen and brightness enable control.	
	XJP-410BD	12V30W halogen and brightness enable control for transmission illumination.	
		12V50W halogen and brightness enable control for reflecting illumination.	
	Integrated field diaphragm, aperture diaphragm and puller type polarizer.		
Equipped with ground glass and yellow ,green and blue filters			
Optional Accessory	Eyepiece	Dividing eyepiece($\Phi 22\text{mm}$)	
	Objective	XJP-410	Bright field objective 20X、50X、80X、100X(Dry)
		XJP-410BD	Bright&dark field objective 50X、60X、80X、100X
	CCD adapter	0.5X、1X、0.5X (with dividing)	
	Camera	Usb output 1.3M、3.0M、5.0M、10Mpixel	
	Digital camera adapter	Cannon (EF) nikon (F)	

PORTABLE METALLURGICAL MICROSCOPE XJP-200, 10x & 50x Objectives

XJP-200 is a portable metallurgical microscope equipped with a rechargeable LED vertical illuminator. It can be used in the field to easily identify the structures of all types of metals and alloys. This portable metallurgical microscope can be widely used for identification of casting quality, inspection of raw material or metallurgical structures research and analysis of processed material in factories and laboratories also can be used in antique gem and surface observation.



TECHNICAL SPECIFICATION

Eyepiece	Plan eyepiece 10x/18mm
Objective	Long work distance plan objective: 10x and 50x
Total Magnification	100x and 500x
Mechanical Tube Length	160mm
Focusing Range	36mm
Illumination	Adjustable LED light. Rechargeable.
Dimension	23cm x 11cm x 7cm
Weight	0.75kg

PORTABLE METALLURGICAL MICROSCOPE XJP-300

The stable body ensures high-precision, sharp images, bright field of view and good observation. It also available connect digital camera, CCD camera, digits cam for images capture. XJP-300 is widely used in non-destructive testing in the field of material analysis of mechanical parts, metallurgy, roll, chemical industry and electrician etc. It is also used in factories and laboratories for casting quality identification, raw material inspection and to identify different metal and alloy organization structure. Applicable to operate inspection and analysis on the large pieces directly.



TECHNICAL SPECIFICATION

Plan Eyepiece	WF10X(Φ18mm) /12.5X
Long WD Plan Objective	10X/0.25、50X/0.65(Metallurgical Objective)
Total Mag.	100X-500X
Focusing Range	36mm
Mechanical Tube Length	160mm
Voltage	3.6V
Magnetic Base	90×70mm; Traveling Range: vertical 10mm; horizontal 10mm
Weight	Net: 0.75kg Gross: 0.9kg
Dimension	230×110×70(mm)
LED	Built-in rechargeable battery Adjustable brightness

STANDARD DELIVERY

A	Main Body
B	Eyepiece (10X)
C	Achromatic Objective (10X, 40X)
D	Power cord
E	Magnetic Base
F	Suitcase
G	Warranty card
H	Certificate
I	Operation manual

OPTIONAL ACCESSORY

A	Achromatic Objective	4X, 20X, 60X, 80X
B	Plan Metallographic Objective (Long Working Distance)	10X, 20X, 40X, 60X, 100X
C	CMOS Electronic Eyepiece	0.35MP, 1.3MP, 2MP, 3.2MP, 5MP, 8MP, 10MP , many functions: single, timing, continuous image capture, display scale, measurement etc.
D	DSLR Digital Camera	Over 10 megapixel SLR camera(contains photo and video) such as Canon, Nikon, Leica etc.



Polarizer & Analyser Slides (Optional)



Portable Aluminium Case



Photo Adapter For SLR Digital Camera (Optional)



Magnet Stand (Optional)



PORTABLE METALLURGICAL MICROSCOPE RMM-A3

FEATURES:

- The Roll Scope RMM-A3 is a very high quality, portable, upright metallurgical microscope
- Designed to be positioned directly over your sample for quick, efficient and easy observations.
- Dedicated Camera Port with C-mount camera adapter
- It is a fully equipped metallurgical microscope with built-in LED epi-illumination.
- You can use the microscope anywhere because it can be used with AA batteries.
- The microscope, as standard, is equipped with three top quality metallurgical objectives:
 - M5X
 - M10X
 - M40X
- The objectives are mounted on a three position objective turret. Optionally you can add a M20X objective.. Another option is the dial depth gauge which is used for height and step measurements.
- The microscope can be turned into a top quality digital microscope by adding a camera, including battery powered cameras for the live transmission of the image to a Smartphone, Smartpad, PC or direct to a PC or SD card via WiFi, USB or HDMI.
- Measurement software can also be supplied.

**50X-800X Magnification (with options),
Camera Option, Z Measurement option**



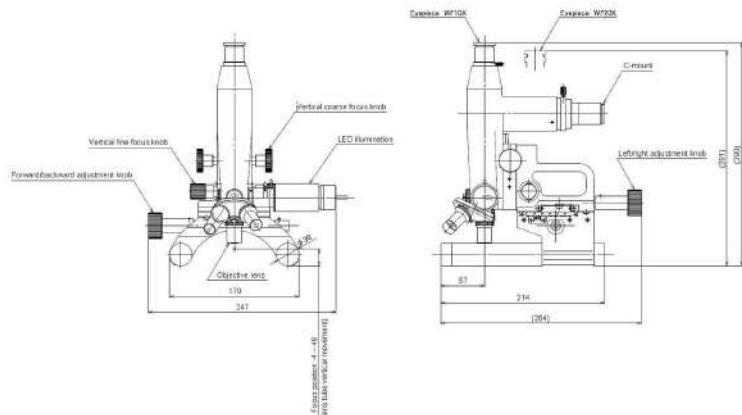
TECHNICAL SPECIFICATION

Microscope System	Monocular viewing head with dedicated camera port incl. C mount camera adapter (0.7X), three position objective turret	
Objectives	Standard: M5X, M10X, M40X	Optional: M20X
Eyepieces	Standard: WF10X	Optional: WF20X
Movement Range	Front - Rear direction: 50mm	Right - Left direction: 30mm
Focussing	Coarse movement range: 50mm Fine movement range: 2mm Separate coarse and fine focus knobs	
Illumination	White LED reflected illumination	
Power Supply	Dedicated AC adapter or 4X AA batteries	
Filter	Yellow and Green (replaceable)	
Weight	Main Unit 4.6Kg (plus AC adapter 0.3Kg or batteries)	

Common Uses

- Aviation – to inspect structural integrity of parts and components
- Printing – measurement of Gravure cells and Anilox rolls
- Field metallography
- Ship hull and press vessel examination
- Rolled materials inspection
- On-site failure analysis

DIMENSION



PORTABLE METALLURGICAL MICROSCOPE XJP-500

XJP-500 is a self-contained portable metallurgical microscope ideally used for inspecting metallography of metals in laboratory or in-situ. With fully handheld design and unique magnetic stand, XJP-500 can be attracted directly against the surface of ferrous metal at any angles for non-destructive examination on flatness, curvature as well as other complicated surface. PH 500 also can be used with digital camera or CCD image process system to download metallurgical image on to PC for data transfer, analysis, storage and printout.

FEATURES

- Handheld design makes inspecting metallograph easy in-situ.
- Magnetic stand can be attracted against ferrous metals at any angles.
- X,Y slideway move makes inspection friendly
- More convenient for photography
- Non destructively examination

TECHNICAL SPECIFICATION

- Microscope main: 100-500x (extendable 1500x)
- Eyepiece (largeview): 10x,12.5x (extendable15x)
- Objective: 10x, 40x (extendable 100x)
- Photo Eyepiece: 15x
- Slideway: X-direction 15mm, Y-direction12mm
- Camera: 35mm
- Digital Camera
- Illuminator (halide): 6V 15W
- Power supply: 230Vac 50/60Hz
- Stand: On-off magnetic stand
- Size: 210x160x 95mm
- Weight: 2.5kg



STANDARD DELIVERY

- 10X,12.5X eyepiece
- 10X,40X objective
- Main body
- Illuminator
- Power supply
- Carrying case

ELECTROLYTIC POLISHER for Metallurgical Microscope E-P302

E-P302 Electrolytic Polisher is a kind of pretreatment apparatus for metallographic specimen of metal materials. It is applicable to the polishing and etching of large work pieces in site and laboratory. The unique current-limiting structure after modification makes its overall structure compact and small. It is a kind of supplementary specimen preparation method for mechanical polishing. This apparatus has good effects on some soft nonferrous metal materials and some metal materials which can easily generate deformation layer in polishing such as high manganese steel and martensitic stain less steel.

Compared with mechanical polishing, electrolytic polishing has some merits including: scratch is easily caused in mechanical polishing for the soft metal materials, therefore, in order to obtain good polishing surface, fine polishing method and skilled polishing technology are needed. However, a smooth rubbed surface with no scratch can be easily obtained in electrolytic polishing. Electrolytic polishing produces no additional surface deformation and can easily eliminate the deformation disturbed layer on surface. For some metal materials with high hardness, electrolytic polishing is rapider than mechanical polishing. The shortcomings of electrolytic polishing include: it is not appliance to micro segregation for materials with non-homogeneous chemical composition. Moreover, electrolytic polishing can not be used for materials with emerged inclusion.



TECHNICAL SPECIFICATION

Engine	Engine model	Kw/rpm	135.5/2150
	No. of cylinders	Kw/rpm	637/1800
	Net Power	L	6.494
Main performance parameters	Main performance parameters	km/h	5.9/4.0
	Travel speed (max. & min.)	°	<=35
	Max. Gradeability	rpm	11.3
Hydraulic system	Hydraulic system	KPa	50.1
	Main pump	KN	161
	Rate flow	KN	12

METALLOGRAPHIC CONSUMABLES

CONSUMABLES FOR CUTTING

- 1.Cut off wheels
- 2.Diamond wafering blades
- 3.Cutting coolant

CONSUMABLES FOR MOUNTING

- 1.Hot mounting
- 2.Cold mounting
- 3.Mounting accessories

CONSUMABLES FOR POLISHING AND GRINDING

- 1.Abrasive paper
- 2.Diamond discs
- 3.Adapter plate
- 4.Polishing cloth
- 5.Polishing consumables

For more details,pls contact our local distributors or our sales:
sales@prideinstrument.com / info@prideinstrument.com.



SPECIMEN LEVELING PRESS SLP-100

When viewing flat polished surfaces with an optical microscope, it is desirable that the image stays in focus as the specimen is traversed on the microscope stage.

When viewing flat polished surfaces with an optical microscope, it is desirable that the image stays in focus as the specimen is traversed on the microscope stage. To achieve this, the polished surface must be made parallel to the glass slide. The specimen levelling press is used to fix standard metallographic mounts or irregular shaped polished samples onto glass slides using Plasticine or mounting wax.

TECHNICAL SPECIFICATION

Metal body
 Up pressing diameter Ø50mm
 Lower table diameter Ø90mm
 Working distance 45mm
 Accuracy $\leq 0.5\text{mm}$
 Weight 1kg
 Dimension W/D/H: 100x120x215mm



SPECIMEN LEVELING PRESS SLP-200

TECHNICAL SPECIFICATION

Metal body
 Up pressing diameter Ø85mm
 Lower table diameter Ø85mm
 Accuracy $\leq 0.5\text{mm}$
 Weight 3kg
 Dimension W/D/H: 120x153x310mm





***DIGITAL FORCE GAGE
ANALOG FORCE GAGE
MANUAL TEST SAND
MOTORIZED TEST STAND
DIGITAL SPRING TESTER
DIGITAL TORQUE METER
DIGITAL CAP TORQUE METER
DIAL TENSION GAGE
DIGITAL TORQUE WRENCH
WINDOW SCALE TORQUE WRENCH
MICROMETER TORQUE WRENCH
MECHANICAL TORQUE WRENCH
TORQUE SCREWDRIVER
DIAL TORQUE WRENCH
TORQUE MULTIPLIER***



FP DIGITAL FORCE GAUGE

FEATURES

- Four liquid crystal display
- The high accuracy $\pm 0.2\%$
- Up to 2,000 times/sec sampling rate
- Automatic memory 100 measured values
- Set the measuring upper and lower
- Real-time display measured values and measured curve
- View each curve measured values
- Free setting the scan time
- The screen can flip display
- Set automatic shutdown of time
- Set up automatic peak measuring time
- Kg / N / lbf conversion measurement
- Automatic charge control
- Battery consumption shows that elegant appearance
- Take RS-232 interfaces connected to the computer
- Quadratic programming



TECHNICAL SPECIFICATION

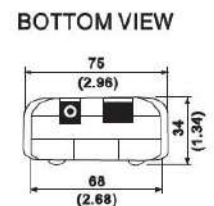
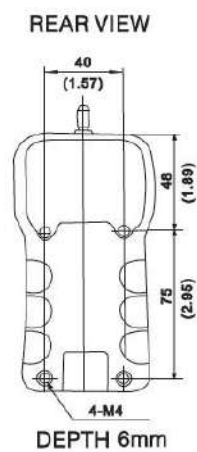
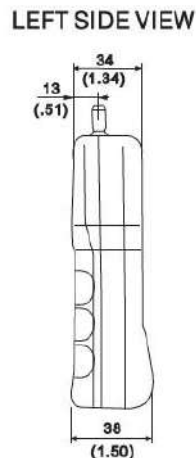
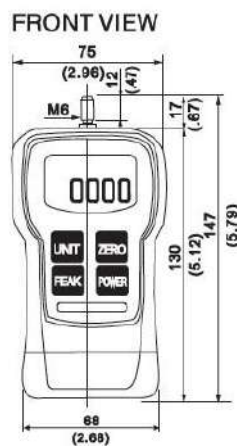
Model No.	Capacity	Graduation
FP-0.1B	100.0gf/1.000N/4.00ozf	0.1gf/0.001N/0.01ozf
FP-0.2B	200.0gf/2.000N/8.00ozf	0.1gf/0.001N/0.01ozf
FP-0.5B	500.0gf/5.000N/16.00ozf	0.1gf/0.001N/0.01ozf
FP-1B	1.000kgf/10.00N/2.000lbf	0.001kgf/0.01N/0.001lbf
FP-2B	2.000kgf/20.00N/5.000lbf	0.001kgf/0.01N/0.001lbf
FP-5B	5.000kgf/50.00N/10.00lbf	0.001kgf/0.01N/0.01lbf
FP-10B	10.00kgf/100.0N/20.00lbf	0.01kgf/0.1N/0.01lbf
FP-20B	20.00kgf/200.0N/50.00lbf	0.01kgf/0.1N/0.01lbf
FP-50B	50.00kgf/500.0N/100.0lbf	0.01kgf/0.1N/0.1lbf

- Battery: 7.2V Ni-MH rechargeable batteries
- Operating temperature range: 0°C -50°C
- Size: 145mm x 75mm x 38mm
- Weight: Net weight: 0.28 kg Gross weight: 1 kg
- Charger: Input AC 220V/50Hz, Output DC 12V/200mA

STANDARD ACCESSORIES



DIMENSIONS



Key: mm
(in)

FB DIGITAL FORCE GAUGE

FEATURES:

- High accuracy & High resolution: Accuracy : $\pm 0.5\%$
Min resolution :0.001N;
- Peak holding and auto-releasing function: Catching and holding the peak value in test, the peak holding time can be set(1-10 seconds);
- Comparing function: Initial input of the tolerance limit(Max/Min) enables the device to judge the measured result as Go(Green pilot lamp)/NG(Red pilot lamp);
- Memory function: Memory 10 testing data, and calculate the average;
- Units conversion: Converting three units(N, kgf, ibf) automatically;
- LCD screen direction turning function: Pressing the unit key for 3 seconds, the LCD screen will change its direction;
- Automatic power off function: Power off time (1-60minutes) can be set by yourself;
- RS-232C output: Transmitting the data to Printer or computer, saving it into "Excel" for analysis or printing; Standard: JIS B 7721 and 7733



Sensor inside

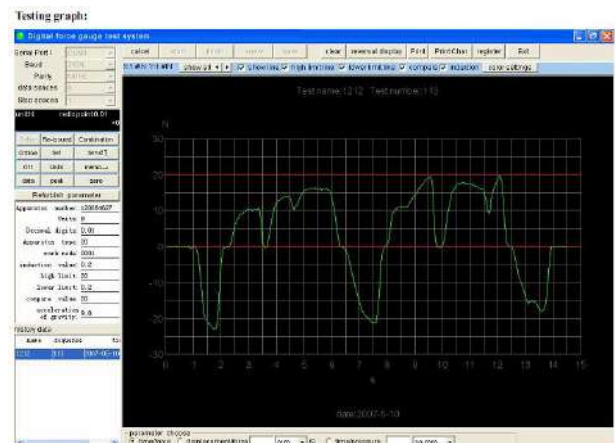
Model No.	FB-2N	FB-5N	FB-10N	FB-20N	FB-50N	FB-100N	FB-200N	FB-500N
Capacity :	2N	5N	10N	20N	50N	100N	200N	500N
Graduation :	0.001N	0.001N	0.005N	0.01N	0.01N	0.05N	0.1N	0.1N
Accuracy :	$\pm 0.5\%$							

Sensor outside

Model No.	FB-1KN	FB-2KN	FB-5KN	FB-10KN	FB-20KN	FB-50KN	FB-100KN	FB-200KN	FB-500KN	FB-1000KN
Capacity :	1KN	2KN	5KN	10KN	20KN	50KN	100KN	200KN	500KN	1000KN
Graduation :	0.5N	1N	1N	0.005KN	0.01KN	0.01KN	0.05KN	0.1KN	0.1KN	0.5KN
Accuracy	$\pm 0.5\%$							$\pm 1\%$		

FB DIGITAL FORCE GAUGE ANALYSIS SOFTWARE

- Our software can output testing data to standard application software programs like WORD, EXCEL, ACCESS, POWERPOINT and OUTLOOK. It was special designed for FB digital force gauge, the result is not only with testing data (max. memory is 896 testing data), but also with analysis graph. Tabular results are displayed in a spreadsheet style, so you can evaluate your testing data, perform pass- fail analysis, calculate statistical relationship and maintain history on your testing procedures. With this Windows software makes automated testing and data analysis simple and efficient, so it widely used on the industry, laboratory, university, office and so on.



FB DIGITAL FORCE GAUGE

FEATURES:

- Force measuring device for exact measuring with an accuracy of 0.2 %
- Overload protection: 150 % full scale (up to 5 N)
200 % full scale (from 20 N)
- For hand-held use or mounting on test stand (mounting thread 4 x M4 in back)
- Easy to operate
- Force gauge with easy to read LCD display
- Ergonomically-designed, rugged die-cast aluminium housing
- Operates on rechargeable battery (NiMH) and/or AC adapter
- Full set of accessories included
- **Standard: JIS B 7721 and 7733**

SPECIAL FEATURES:

- 2 operation modes: real time - display the actual tension or compression force
peak force - to measure the peak force during a test
- Force measuring device with high sampling rate of 1000 times/sec to measure the peak force during a test switchable to 30 times/sec for applications with slow-changing forces or for damping forces, being influenced by vibrations.
- Display update time 10 mal/sec
- Force gauge with user switchable units: N, gf (kgf) und ozf (lbf)
- Programmable high/low set-points for go/no-go testing: Display: underrun (-) - good (O) - exceeding (+)



TECHNICAL SPECIFICATION



Loadcell inside

Model No.	Range	Display	Resolution
FS-2N	2N(200gf)	2.000N(200.0gf)	0.001N(0.1gf)
FS-5N	5N(500gf)	5.000N(500.0gf)	0.001N(0.1gf)
FS-10N	10N(1kgf)	10.00N(1.000kgf)	0.01N(0.001gf)
FS-20N	20N(2kgf)	20.00N(2.000kgf)	0.01N(0.001gf)
FS-50N	50N(5kgf)	50.00N(5.000kgf)	0.01N(0.001gf)
FS-100N	100N(10kgf)	100.0N(10.00kgf)	0.01N(0.001gf)
FS-200N	200N(20kgf)	200.0N(20.00kgf)	0.1N(0.01gf)
FS-500N	500N(50kgf)	500.0N(50.00kgf)	0.1N(0.01gf)
FS-1000N	1000N(100kgf)	1000N(100.0kgf)	1N(0.1kgf)

Loadcell outside

Model No.	Range	Display	Resolution
FS-1KN	1000N(100kgf)	1000N(100.0kgf)	1N(0.1kgf)
FS-2KN	2000N(200kgf)	2000N(200.0kgf)	1N(0.1kgf)
FS-5KN	5000N(500kgf)	5000N(500.0kgf)	1N(0.1kgf)
FS-10KN	10000N(1000kgf)	10000N(1000.0kgf)	0.1N(1kgf)
FS-20KN	20000N(2000kgf)	20000N(2000.0kgf)	0.1N(1kgf)
FS-30KN	30000N(3000kgf)	30000N(3000.0kgf)	0.1N(1kgf)
FS-50KN	50000N(5000kgf)	50000N(5000.0kgf)	0.1N(1kgf)
FS-100KN	100000N(10000kgf)	100000N(10000.0kgf)	0.1N(1kgf)
FS-200KN	200000N(20000kgf)	200000N(20000.0kgf)	0.1N(1kgf)

ANALOG FORCE GAUGE

FEATURES:

- High resolution, the device provides 1/200 resolution and graduations scale is clear. Single click can make a measurement conversion from peak force to tracking force. Easy operation, hand-holding design and being installed with various test stands and clamps ;
- Scales of newton and kgf.
- Tolerance limit indication, can set upper and lower limits
- High accuracy, 0.5% of full scale.
- **Standard: JIS B 7721 and 7733**



Model No.	Capacity		Graduation		Stroke
NK-10N	10N	1Kgf	0.05N	10gf	10mm
NK-20N	20N	2Kgf	0.1N	20gf	10mm
NK-30N	30N	3Kgf	0.2N	20gf	10mm
NK-50N	50N	5Kgf	0.25N	50gf	10mm
NK-100N	100N	10Kgf	0.5N	100gf	10mm
NK-200N	200N	20Kgf	1N	200gf	10mm
NK-300N	300N	30Kgf	2N	200gf	10mm
NK-500N	500N	50Kgf	2.5N	500gf	10mm

NL analog force gauge provide Newton(N) and pound(lb) units

Model No.	Capacity	Graduation
NL-02	2Lb	0.01lb
NL-03	3Lb	0.02lb
NL-05	5Lb	0.02lb
NL-10	10Lb	0.05lb
NL-20	20Lb	0.1lb
NL-30	30Lb	0.2lb
NL-50	50Lb	0.2lb
NL-100	100Lb	0.5lb
NL-200	200Lb	1lb
NL-300	300Lb	2lb
NL-500	500Lb	2lb
NL-1000	1000Lb	5lb

ANALOG FORCE GAUGE






FEATURES:

- **HIGH RESOLUTION**
The device provides 1/200 resolution and graduations scale is clear.
- ***HIGH ACCURACY**
- ***EASY OPERATION**
Single click can make a measurement conversion from peak force to tracking force.
- ***VARIATIONS**
The measurement capacity 4 types (1000N/100kgf-5000N/500kgf)
- **Standard: JIS B 7721 and 7733**



Model No.	NK-1K	NK-2K	NK-3K	NK-5K
Capacity	1000N	2000N	3000N	5000N
Graduation	5N	10N	20N	25N
Accuracy	±0.1%			

STANDARD ACCESSORIES FOR FORCE GAGES

	<p>Small Hook Aluminium, M6, measuring range up to 50 N Model no: SA-A1 Steel, M6, measuring range from 100 N to 500 N Model no: SA-S1</p>
	<p>Flat Tip Aluminium, M6, Ø 13 mm, measuring range up to 50 N Model no: SA-A2 Steel, M6, Ø 16 mm, measuring range from 100 N to 500 N Model no: SA-S2</p>
	<p>Conical Tip Aluminium, M6, 85° , measuring range up to 50 N Model no: SA-A3 Steel, M6, 85° , measuring range from 100 to 500 N Model no: SA-S3</p>
	<p>Chisel Tip Aluminium, M6, 85° , measuring range up to 50 N Model no: SA-A4 Steel, M6, 85° , measuring range from 100 N to 500 N Model no: SA-S4</p>
	<p>Notched Tip Aluminium, M6, 90° , measuring range up to 50 N Model no: SA-A5 Steel, M6, 90° , measuring range from 100 N to 500 N Model no: SA-S5</p>
	<p>Extension Shaft Aluminium, M6, 80 mm, measuring range up to 50 N Model no: SA-A6 Steel, M6, 100 mm, measuring range from 100 N to 500 N Model no: SA-S6</p>

MANUAL TEST STAND FT-110/112

FEATURES

- FT-110 test stand features a gear drive manual operation for easy of use and rapid load applications.
- Capacity: 500N
- Dimension: 240x150x400 mm (L x W x H)
- Stroke: 70mm
- FT-110 no digital scale 150
- FT-112 with digital scale 0-200mm



FT-110



FT-112

MANUAL WHEEL TEST STAND FT-130

FEATURES

- FT-130 manual wheel test stand are popular in every trade and scientific Research organization for testing applications tension/compression tests, insertion/withdraw tests and fracture tests.
- Capacity: 500N/1000N
- T-screw transfer displacement for manual operation in vertical or horizontal use.
- **FT-130 no digital scale, FT-131 with digital scale, FT-132 is 1000N with digital scale 0-200mm**
- Dimensions: 160x240x460 mm /160x240x550

TECHNICAL SPECIFICATIONS

Model No.	Max capacity	Stroke
FT-130	500N	150mm
FT-131	500N	150mm
FT-132	1000N	250mm



MANUAL HAND WHEEL TEST STAND FT-140

FEATURES

- FT-140 test stand has a variety of applications, such as switch tests, insertion/withdrawing tests, and fracture tests. The motive carrier is designed with the test stand and can be moved on X-Y axis. The design is convenient to fix grips.

TECHNICAL SPECIFICATIONS

Capacity	50Kgf
Stroke	180mm
Travel rate	2mm / wheel turn
Test table size	130×110mm
Stand dimension	260×360×470mm
Weight	22Kg



HORIZONTAL MANUAL TEST STAND FT-170

FEATURES

- FT-170 test stand features a gear drive manual operation for easy of use and rapid load applications and offers the advantage of horizontal operation. **Force gauge optional.**
- Capacity: 500N
- Dimension: 450x150x160 mm (L x W x H)
- Stroke: 50mm



HORIZONTAL MOTORIZED TEST STAND FT-220

FEATURES:

- FT-220 Electric Horizontal Test Stand is a tensile/compressive test stand, with double pillar, it has good stability, wide application range, convenient usage, nonpolar timing, manual and automatic control switch function. It is specialized for tension/compression, insertion/withdraw and fracture test. **Force gauge optional.**
- Capacity 500N
- Stroke 250 mm
- Testing speed: 50-500mm/min



ELECTRIC VERTICAL TEST STAND FT-330

FEATURES:

- Electric Test Stand, equipped with push pull force gauge, can be fitted to perform a variety of force tests, such as tension/compression test, insertion/withdraw test, fatigue test and destructive test. In addition, It has stepless speed uniform motion, manual & automatic control switch functions and can preset the cycle test times.

Model No. FT-350

- Dimension: LX W XH (mm) 430X245 X 570mm; Stroke: 250mm; Weight: about 24.2kg.
- Testing Speed: 50-245mm/min, max load: 200N; 250-500mm/min, max load: 500N.
- Can be configured (purchase additionally): (Sensor Inside) force gauge, various clamps.

Model No. FT-360

- Dimension: LX W XH (mm) 410X270X970mm; Stroke: 520mm; Weight: about 31.5kg.
- Testing Speed: 50-245mm/min, max load: 500N; 250-500mm/min, max load: 1000N.
- Can be configured (purchase additionally): (2N-1kN) force gauge, various clamps.

Model No. FT-370

- Dimension: LX W XH (mm) 465 X310X 1180mm; Stroke: 600mm; Weight: about 52.1kg.
- Testing Speed: 50-500mm/min, max load: 2000N.
- Can be configured (purchase additionally): (2N-2kN) force gauge, various clamps.

Model No. FT-380

- Dimension: LX W XH (mm) 380X285 X 1490mm; Stroke: 1000mm; Weight: about 57.0kg.
- Testing Speed: 50-500mm/min, max load: 1000N.
- Can be configured (purchase additionally): (2N-2kN) force gauge, various clamps.



MOTORIZED TEST STAND FT-300/FT-301

FEATURES:

- Test stand is motorized vertical test stands which are used in tension and compression tests. The stand features a dual column design which affords high stability and reliable force application and measurement. The stand features variable speed control, and jog buttons to position the crosshead for test initiation.



Model No. FT-300

- Dimension: L×W×H(mm) 410×260×1030.
- Testing speed: 30-240(mm/min)
- Stroke: 200mm
- Weight: about 54.8kg
- Capacity: 5000N.
- Can be configured (purchase additionally): (2N-5kN) force gauge, various clamps.

Model No. FT-301

- Dimension: L×W×H(mm) 410×260×1330.
- Testing speed: Bracket(24, 48, 72, 96, 120)mm/min;
- Stroke: 200mm;
- Weight: About 58. lkg;
- Capacity: 10000N.
- Can be configured (purchase additionally): (2N-10kN) force gauge, various clamps.

MOTORIZED TEST STAND FT-400

FEATURES:

- Capacity: 5000N
- Dimension: L X W X H(mm) 410 X 260 X 1030
- Stroke: 200mm
- Weight: about 54.8kg
- Teting speed: 30-240mm/min.
- Can be configured (purchase additionally): 2N-5KN push pull force gauge, various clamps.

Model No. FT-400

- Capacity: 5000N
- Dimension: L X W X H(mm) 410 X 260 X 1030
- Stroke: 200mm
- Weight: about 54.8kg
- Teting speed: 30-240mm/min.
- Can be configured (purchase additionally): 2N-5KN push pull force gauge, various clamps.

Model No. FT-410

- Capacity: 10000N
- Dimension: L X W X H(mm) 410 X 260 X 1330
- Stroke: 200mm
- Weight: about 59.5kg
- Testing Speed: 20-120mm/min
- Can be confiaured (purchase additionally): 2N-10kN push pull force gauge, various clamps

Model No. FT-420

- Capacity: 20000N
- Dimension: L X W XH(mm) 410 X 260 X 1080
- Stroke: 200mm
- Weight about 63.5kg
- Testing Speed: 20-120mm/min
- Can be configured (purchase additionally): 1kN-20KN push pull force gauge, various clamps.

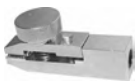
Model No. FT-430

- Capacity: 30000N
- Dimension: L X W X H(mm) 410 X 260 X 1080
- Stroke: 200mm
- Weight: about 63.5kg
- Testing Speed: 8-75mm/min.
- Can be configured (purchase additionally): SH/SP(1kN-30KN) push pull force gauge, various clamps



CLAMPS FOR TEST STANDS

For tension tests ≤ 500 N



Long clamp GP-1
for tension and rupture tests up to 500 N,
clamping width: 3 mm, thread: M6



Angle bracket GP-2
for tension and rupture tests up to 500 N
(e.g. for cable tests),
clamping width: 22 mm, thread: M6



Rope and thread clamp GP-3
for tension and rupture tests up to 500 N
thread: M6



Fine point clamp GP-4
for tension and rupture tests up to 500 N,
width 15 mm, clamping width: 4 mm,
thread: M6



Fine point clamp GP-5
for tension and rupture tests up to 500 N,
width 22 mm, clamping width: 4 mm,
thread: M6

For tension tests ≤ 5000 N



Flat jaw attachment GP-6
for tension tests up to 5 kN
(e.g. textile, paper etc.),
clamping width: 4 mm, thread: M6



Parallel jaw grip GP-7
for tension and rupture tests up to 5 kN,
clamping width: 5 mm, thread: M10



High capacity small clamp GP-8
for tension and rupture tests up to 5 kN,
clamping width: 5 mm, thread: M10



2 wide jaw grip attachment GP-9
for tension and extraction tests up to
5 kN, jaw width 60 mm, clamping width:
33 mm, thread: M10



Rolling-clamp attachment GP-10
for tension and rupture tests up to 5 kN,
thread: M10



1-jaw-clamp attachment GP-11
for tension and rupture tests up to 5 kN,
clamping width: 3 mm, thread: M6



Eccentric roll clamp GP-12
in particular for cable tests up to 5 kN,
10×30 mm slotted hole, clamping width:
9 mm



Drum clamp GP-13
typically for cable connector extraction
tests up to 5 kN, for test objects with
∅ from 1,5 mm up to 8 mm, thread: M10



Wedge tension clamp GP-14
up to 5 kN, for tensile force tests, due
to the wedge shape of the clamp the
specimen is clamped automatically with
increasing load, clamping width up to
10 mm, jaws with pyramid grip



Rope and thread tension clamp GP-15
up to 1 kN, Suitable for wires up to a
diameter of 2 mm, belts up to 7 mm width,
incl. jaws with rubberised surface

For tension tests ≤ 500 N



Standard small clamp GP-16
Opening width (inside the jaws):
0-7 mm, for tensile tests up to 500 N, thread
M6. Overload protection: 150 % of [Max].
Easy handling without tools, the opening and
closing of the jaws can be made with the rotary
knob on the upper side. Presetting of the jaw
opening via attached screws. Pretension due to
built-in springs



Wide jaw clamp GP-17
Opening width (inside the jaws):
0-6 mm, for tensile tests up to 500 N, thread
M6. Overload protection: 150 % of [Max].
Easy handling without tools, the opening and
closing of the jaws can be made with the rotary
knobs on the upper side



Belt tension clamps GP-18
Opening width (inside the jaws):
0-4 mm, for tensile tests up to 500 N, thread
M6. Overload protection: 150 % of [Max].
Easy handling without tools, the opening and
closing of the jaws can be made with the lever
on the upper side



Belt tension clamps GP-19
Opening width (inside the jaws):
0-6 mm, for tensile tests up to 500 N, thread
M6. Overload protection: 150 % of [Max].
Easy handling without tools, the opening and
closing of the jaws can be made with the lever
on the upper side

For compression tests > 500 N



Pressure disc GP-20
out of aluminium, thickness 10 mm,
for compression tests up to 5 kN,
diam. 110 mm, outer thread: M12



Pressure disc GP-21
for compression tests up to 5 kN
(e. g. plastics), ∅ 49 mm,
inner thread: M10



Ball-shaped head GP-22
made of nickel- plated steel
for compression and fracture tests up to 5 kN,
(e.g. foam, glass), thread: M6/M10
Ball radius: 5mm/8mm



Small 3-point bending device (steel) GP-23
up to 10 kN, central scale 80-80 mm. Consisting
of one support beam, two support brackets and a
curved fin each with permanently fixed radii, radii
on request.
Gap between the two support brackets 4-170 mm.
Width of the brackets 30 mm

DIGITAL SPRING TESTER

DST digital spring tester, is a specialized instruments widely used in such industries, push& pull test, the spring extension /compression test,and so on fields for testing push /pull ,extension/compression in a allowed capacity.

FEATURES:

- **Peak hold**
Hold the peak value in test;
- **Peak hold and clean automatically**
Hold the peak value, keep the value in 1-10 seconds (time is selected);
- **Auto power off**
The gauge will power off in 1-60 minutes (time is selected) ,there is not operation;
- **Comparative function**
Setting the upper limit and lower limit, the pilot lamp and buzzer to choose the eligible value;
- **Calculate the average value**
Memory 10 data and calculate the average of memory data;
- **Three units**
lbf, kgf, and Newton units are push-button selectable;
- **RS-232 series port digital output**
The RS-232 series port output to printer. Inside printer; The printing data have max value, min value, average value, eligible value and incompetent value.



DST-10



DST-50



DST-1500

TECHNICAL SPECIFICATION

Model No.	DST-10	DST-20	DST-30	DST-50	DST-100	DST-200	DST-300	DST-500	DST-1000	DST-2000	DST-3000	DST-5000
CAPACITY:	10N	20N	30N	50N	100N	200N	300N	500N	1000N	2000N	3000N	5000N
LOAD GRADUATION eP:	0.001N	0.002N	0.01N	0.01N	0.02N	0.05N	0.1N	0.1N	0.2N	0.5N	1N	1N
LENGTH &WIDTH&HEIGHT:	300x220x500			300x220x580					450x290x800			
THE MAX TRAVEL JOURNEY	70mm			100mm					150mm			
THE MAX FREE TESTABLE LENGTH	70mm			100mm					200mm			
PLATEN DIA:	34mm			49mm					108mm			
DISTORTION VALUE	0.01mm											
POWER:	20W											
POWER:	AC 220v-55Hz and a 1.5V silver oxide battery(The battery maintenance 1 year. If the battery is exhausted, the display will flash to indicate to change the battery.)											
LOAD INTERFACE	Numeral display											

DIGITAL TORQUE METER

FEATURES:

- Automatic shutdown (after 10 minutes to place self-closing (OFF))
- Data storage function (which can record 100 torque value, with storage, browsing, some of the deleted, delete all the features.)
- Calculate the maximum (MAX), minimum (MIN), average (AVE).
- Auto-delete function of the value of torque (with automatic reset switch adjustable time required)
- Auto-zero (that can automatically return to zero)
- Can be set torque value. Buzzer and can be prompted operators



TECHNICAL SPECIFICATION

Model No.	TP-1N	TP-5N	TP-10N	TP-20N
Test range	0.015-1.000N.m 0.15-9.00Lbf.in 0.15-10.00Kgf.cm	0.15-5.00N.m 1.5-44.0Lbf.in 1.5-50.0Kgf.cm	0.15-10.00N.m 1.5-90.0Lbf.in 1.5-100.0Kgf.cm	0.50-20.00N.m 5.0-180.0 Lbf.in 5.0-200.0Kgf.cm
Accuracy	±0.5%(F.S.)			
Size (mm)	200*124*65.2(H)			
Weight	2kg			
Full timeuse of electricity in a row	8 Hours			
Battery life	300 times			
Special charger	Input Voltage : AC100V-240V 50/60Hz		Output Voltage : DC7.3V - 8V 0.5A	

DIGITAL TORQUE METER

FEATURES:

- Peak sampling rate of up to 5000Hz.
- The first peak "F.PEAK" detection function: measuring and lock the first peak torque testing process.
- "START" Measurement: Clear PEAK value, jumped into a new storage format and clear its original measurement, start a new measurement.
- Set upper and lower limits of detection values, detected values, and automatic alarm.
- Charge for the use of time: 50 hours , Charging time: <8 hours
- 10 sets of measurement data can be stored.
- Three kinds of torque units Kgf.cm / Lbf.in / N.m automatically converted.
- Automatic calculation of the average value of the stored data.
- Three minutes without operating automatic shutdown of the power design.
- Ni-MH battery power display.7.2V Ni-MH battery
- Automatic control of the charge , Input AC 220V/50Hz, Output DC 12V/300mA
- RS-232 interface with the computer, automatic and manual transmission (optional).
- Net Weight: 2.5kg, Gross Weight: 5kg
- Size: 230mm × 123mm × 65mm



TECHNICAL SPECIFICATION

Model No.	Measuring range	Accuracy	Frequency	Graduation	Interface
TP-10K	0.15-10.00kgf.cm 0.015-1.000N.m 0.15-9.00Lbf.in	±0.5% FS	5000Hz	0.01kgf.cm 0.001N.m 0.01Lbf.in	RS-232
TP-20K	0.3-20.00kgf.cm 0.03-2.000N.m 0.3-18.00Lbf.in	±0.5% FS	5000Hz	0.01kgf.cm 0.001N.m 0.01Lbf.in	RS-232
TP-50K	0.5-50.00kgf.cm 0.05-5.000N.m 0.5-45.00Lbf.in	±0.5% FS	5000Hz	0.02kgf.cm 0.002N.m 0.02Lbf.in	RS-232
TP-100K	1.5-100.0kgf.cm 0.15-10.00N.m 1.5-90.0Lbf.in	±0.5% FS	5000Hz	0.1kgf.cm 0.01N.m 0.1Lbf.in	RS-232
TP-200K	3.0-200.0kgf.cm 0.3-20.00N.m 3.0-180.0Lbf.in	±0.5% FS	5000Hz	0.1kgf.cm 0.01N.m 0.1Lbf.in	RS-232

DIGITAL CAP TORQUE METER

FEATURES:

- Automatic boot (available 10 minutes after the automatic switch (OFF))
- Data storage function (which can record 100 torque value, with storage, browsing, some of the deleted, delete all the features.
- Calculate the maximum (MAX), minimum (MIN), average (AVE).
- Auto-delete function of the value of torque (with automatic reset switch adjustable time required)
- Auto-zero (that can automatically return to zero)
- Can be set torque value, and can be used Feng-Ming prompted operators.



TECHNICAL SPECIFICATION

Model No.	CTM-1N	CTM-5N	CTM-10N	CTM-20N
Test range	0.15-1.000N.m 0.15-9.00Lbf.in 0.15-10.00Kgf.cm	0.15-5.00N.m 1.5-45.0Lbf.in 1.5-50.0Kgf.cm	0.15-10.00N.m 1.5-90.0Lbf.in 1.5-100.0Kgf.cm	0.50-20.00N.m 5.0-180.0Lbf.in 5.0-200.0Kgf.cm
Accuracy		±0.5%(F.S.)		
Size (mm)	325*200*65(H)			
Clamp diameter	Up to 200mm			
Weight	12kg			
Measuring Object Diameter	15-150mm			
Three-jaw fixture	1-16mm			
Special charger	Input Voltage : AC100V-240V 50/60Hz Output Voltage : DC7.3V - 8V 0.5A			

DIGITAL CAP TORQUE METER

FEATURES:

- High precision, accuracy at $\pm 0.5\% + 1$ digit within, Kgf.cm / N.m / lbf.in conversion measurement, three minutes without operation of automatic shutdown of the power design, maintain peak function, automatic alarm settings, torque direction showed that automatic charging, Ni-MH battery power display, storing and printing 10 test data, automatically calculating the average of storing data that can print at the scene measurement curve.
- Battery: 7.2V Ni-MH battery, Charge for the use of time: 50 hours
Charging time: <8 hours Input AC 220V/50Hz, Output DC 12V/300Ma
- Dimension: 230mm × 123mm × 65mm
- Net Weight: 3.4kg, Gross Weight: 5.8kg



TECHNICAL SPECIFICATION

Model No	Measuring range	Accuracy	Responsive Frequency	Measuring diameter
CTM-10P	0.15-10.00Kgf.cm 0.015-1.000N.m 0.15-9.00lbf.in	±0.5%+1 digit	600Hz	Φ18-150mm
CTM-20P	0.3-20.00kgf.cm 0.3-2.000N.m 0.3-18.00Lbf.in	±0.5%+1 digit	600Hz	Φ18-150mm
CTM-50P	0.5-50.0Kgf.cm 0.05-5.00N.m 0.5-45.0lbf.in	±0.5%+1 digit	600Hz	Φ18-150mm
CTM-100P	1.5-100.0Kgf.cm 0.15-10.00N.m 1.5-90.0lbf.in	±0.5%+1 digit	600Hz	Φ18-150mm

DIGITAL CAP TORQUE METER

BT Series Bottle Cap Testers are designed to measure the torque of bottle caps. Adjustable posts can grip a wide range of bottle shapes and sizes effectively. Simple operation and easy to use, large easy-to-read LCD display, big data memory.

FEATURES:

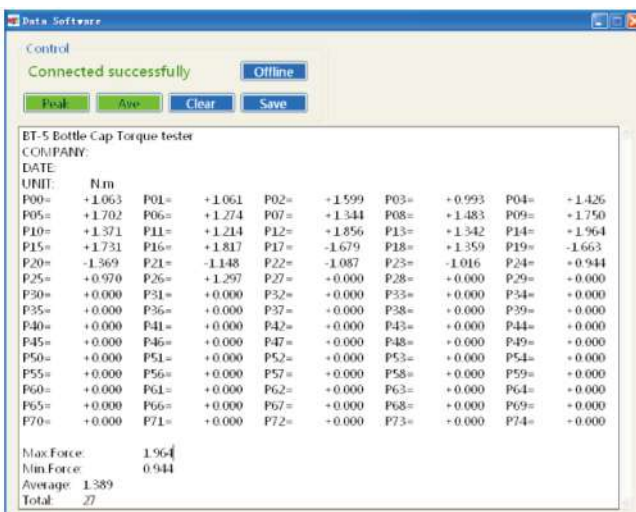
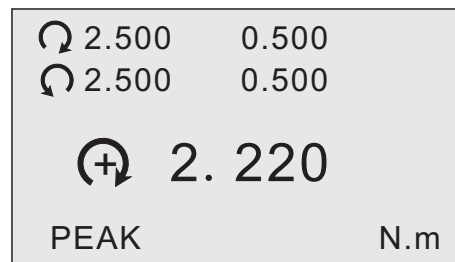
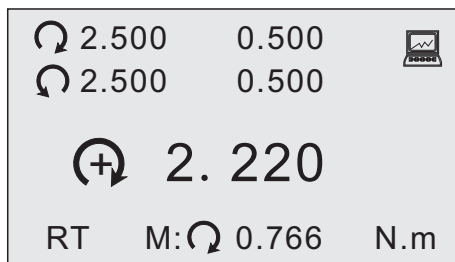
- Clockwise and anticlockwise direction icon indication
- 3 units of measurements: N.m, kgF.cm, lbF.in
- 0.3% FS high accuracy and high resolution
- 4 modes of measurement: Real time, peak, save, average
Average mode: calculates average readings over time
- Upper and lower limit setting for tolerance checking with three different colors indicator lamp
Backlight and buzzer inside, make screen more brightness and overload alarm
Individual data memory for up to 100 readings
- Power saving mode of automatic shutoff without any operation
- Micro printer inside and print saved data.
- USB output, export saved data to the data software and view the load graph over time via graph software



TECHNICAL SPECIFICATION

Model No.	BT-2	BT-5	BT-10	BT-20
Capacity	2 N.m	5 N.m	10 N.m	20 N.m
Resolution	0.001 N.m	0.001 N.m	0.005 N.m	0.01 N.m
Accuracy	0.3% FS			
Units	N.m, kgF.cm, lbF.in			
Weight	9 kgs			
Dimension	28×21×20 cm			

SCREEN



DIGITAL TORQUE METER

FEATURES:

- Peak holding and auto-releasing function: Catching and holding the peak value in test, the peak holding time can be set(1-10 seconds);
- Automatic power off function: This function saves battery and keeps the gauge safe, also the power off time(1-60minutes) can be set By yourself;
- Comparing function: Initial input of the tolerance limit(Max/Min)enables the device to judge the measured result as Go(Green pilot lamp)/NG(Red pilot lamp);
- Memory function: Memory 10 testing data, and calculate the average;
- Three units conversion: Converting three units(N.m, kgf.cm, ibf.in) automatically; Inside printer: Printing testing curve and analysis report of 10 groups of tested data.



TECHNICAL SPECIFICATION

Model No.	TR-50	TR-100	TR-200	TR-500
Capacity	50N.m	100N.m	200N.m	500N.m
Graduation	0.02N.m	0.05N.m	0.1N.m	0.2N.m
Accuracy	Sensor inside			
Sensor	±1%FS			
Test speed	≤5000rpm			
Power	220±10% v 100w			
Weight	22KG			

DIGITAL DYNAMIC TORQUE METER

FEATURES:

- Peak holding and auto-releasing function: Catching and holding the peak value in test, the peak holding time can be set(1-10 seconds);
- Automatic power off function: Power off time (1-60minutes) can be set by yourself;
- Comparing function: Initial input of the tolerance limit(Max/Min)enables the device to judge the measured result as Go(Green pilot lamp)/NG(Red pilot lamp);
- Memory function: Memory 10 testing data, and calculate the average;
- Units conversion: Converting three units(N.m,kgf.cm,ibf.in) automatically;
- Printer inside: Printing the tested curve or the analysis report of 10 groups value;
- RS-232C output: Connecting outside equipment and using the related CD for transmitting



Digital Dynamic Torque Meter, an intelligent metrologic instrument, designed for detecting various dynamic torque, is specialized in calibrating the output torque of all kinds of electrical machineries and moderating machines. It is applied to trades such as electrical machineries, machine-building, scientific research institution, etc

TECHNICAL SPECIFICATION

Model No.	TR-1D	TR-2D	TR-5D	TR-10D	TR-20D	TR-50D	TR-100D	TR-200D	TR-500D
Capacity	1N.m	2N.m	5N.m	10N.m	20N.m	50N.m	100N.m	200N.m	500N.m
Graduation	0.000 5N.m	0.001 N.m	0.002 N.m	0.005 N.m	0.01 N.m	0.02 N.m	0.05 N.m	0.1 N.m	0.2 N.m
Accuracy	Sensor inside								
Connection size	±1%FS								
Max speed	≤5000rpm								
Power	220±10% v 100w								
Weight	22KG								

DIAL TENSION GAGE

FEATURES:

- The Dial Tension Gauge is applied to the test of the contact point pressure of relay, electronic switch and mini switch etc., and the pressure, and the pressure, pulling force of other accurate appliances.
- Dial tension gage is the handy measuring instrument from 5g to 4000g, available in different models and wide usages
- Tip Configuration: Flat tip for line contact.
- Tension / Compression: Reads both clockwise and counterclockwise.
- Peak Force Pointer: Holds maximum force reading - available with most models.
- Calibration: Small hole in flat tip permits accuracy checks with test weights.
- Accuracy: Accuracy: $\pm 2\%$ of full scale



TECHNICAL SPECIFICATIONS

unit:g

Model No.	Measuring range	Graduation (Gram)	Accuracy	Starting size
DTG-10	2-10g	0.2g	$\pm 2\%$	1g
DTG-30	5 - 30g	1g	$\pm 2\%$	3g
DTG-50	10-50g	1g	$\pm 2\%$	5g
DTG-100	20 - 100g	2g	$\pm 2\%$	10g
DTG-150	25 - 150g	5g	$\pm 2\%$	15g
DTG-300	50-300g	10g	$\pm 2\%$	30g
DTG-500	100-500g	10g	$\pm 2\%$	50g
DTG-1000	200-1000	25g	$\pm 2\%$	100g
DTG-2000	500-2000	50g	$\pm 2\%$	250g
DTG-4000	1000-4000	100g	$\pm 2\%$	700g

unit:N

Model No.	Measuring range	Graduation	Accuracy	Starting size
DTN-0.1	0.02N-0.1N	0.002N	$\pm 2\%$	0.01N
DTN-0.15	0.025N-0.15N	0.005N	$\pm 2\%$	0.015N
DTN-1	0.2N-1N	0.02N	$\pm 2\%$	0.1N
DTN-1.5	0.25N-1.5N	0.05N	$\pm 2\%$	0.15N
DTN-3	0.5N-3N	0.1N	$\pm 2\%$	0.3N
DTN-5	1N-5N	0.1N	$\pm 2\%$	0.5N

DIGITAL TORQUE WRENCH

FEATURES:

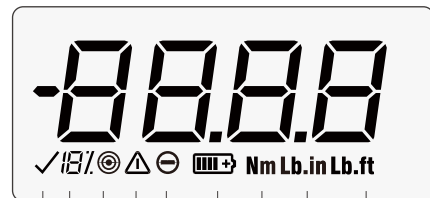
- Accuracy: CW±2%, CCW±3% from 10% to 100% of capacity.
- Display range: 2% to 110% of maximum torque value.
- Units: Lbft, Lbin, Nm.
- Modes: Peak Torque mode, Track mode.
- Target torque can be set.
- LED light and buzzer alarming when reaches target torque.
- Automatic zero clearing when used continuously.
- Optional backlight, good for dark working condition.
- Torque error% display function.
- Battery level display.
- Automatically shut off after 2 minutes of non use.
- 3 Pcs AAA batteries, easy replacement.



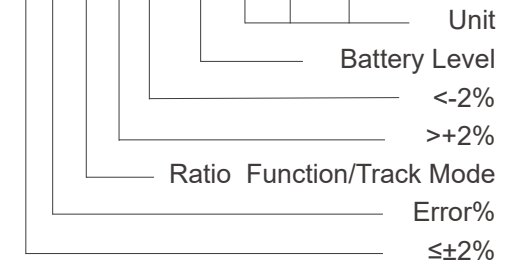
Backlight Display



Matching Sockets



✓ 187 © Δ ⊖ 🔋 Nm Lb.in Lb.ft



TECHNICAL SPECIFICATION

Metric

Model No.	Square Drive	Torque Range		Length mm	Width mm	Weight kg
		N.m	Lb.ft			
ET220	1/4"	2-20	17.7-177*	427	38	0.88
ET330	3/8"	3-30	26.6-266*	427	38	0.88
ET550	3/8"	5-50	44.3-443*	452	38	0.93
ET1100	3/8"	10-100	7.4-73.8	482	38	1
ET2200	1/2"	20-200	14.8-148	522	40	1.12
ET3300	1/2"	30-300	22.1-221	590	40	1.27
ET4400	3/4"	40-400	29.5-295	795	57	3.3
ET6600	3/4"	60-600	44.3-443	1050	60	4.6
ET8800	3/4"	80-800	59.0-590	1250	60	5.2
ET11000	3/4"	100-1000	73.8-738	1250	60	5.2

*Unit is Lb.in

English

Model No.	Square Drive	Torque Range		Length mm	Width mm	Weight kg
		Lb.ft	N.m			
EE200	1/4"	20-200*	2.3-22.6	427	38	0.88
EE250	3/8"	25-250*	2.8-28.2	427	38	0.88
EE450	3/8"	45-450*	5.1-50.8	452	38	0.88
EE100	3/8"	10-100	13.6-136	482	38	1
EE150	1/2"	15-150	20.3-203	522	40	1.12
EE251	1/2"	25-250	33.9-339	590	40	1.27

*Unit is Lb.in



Battery replacement

WINDOW SCALE ADJUSTABLE TORQUE WRENCH

FEATURES:

- Accuracy: $\pm 4\%$ in clockwise direction from 20% to 100% of capacity.
- Unique double window scale with fine increments.
- 1/20 of increment on main scale.
- Convenient Metric or English major scale with English or Metric secondary scale.
- Pull-push locking design at the end of the handle secures the selected torque from accidental change.
- Ergonomic, non-slip soft grips are comfortable to use under all conditions and long durations.
- Reversible ratchet head, fine-tooth ratchets suitable for operation in confined spaces requiring only 8 degrees swing.



Double Window Scales



1 Pull to unlock



2 Turn the handle to adjust the torque



3 Push to lock



Matching Sockets

TECHNICAL SPECIFICATION

Model No.	Square Drive	Torque range		Increment	Length	Width	Weight
		N.m	Lb.f				
CM12	1/4"	2.5-12	20-105*	0.025	285	38	0.54
CM20	1/4"	4.0-20	30-180*	0.05	285	38	0.54
CM30	3/8"	6.0-30	50-250*	0.075	313	38	0.68
CM31	1/2"	6.0-30	50-250*	0.075	313	38	0.68
CM60	3/8"	10-60	9-45	0.25	383	38	0.82
CM61	1/2"	10-60	9-45	0.25	383	38	0.82
CM100	3/8"	20-100	15-75	0.25	438	38	0.9
CM101	1/2"	20-100	15-75	0.25	438	38	0.9
CM225	3/8"	25-125	20-90	0.25	438	38	0.9
CM126	1/2"	25-125	20-90	0.25	438	38	0.9
CM200	1/2"	40-200	30-150	0.5	463	40	1.02
CM335	1/2"	65-335	50-250	0.75	523	40	1.16
CM336	3/4"	65-335	50-250	0.75	523	40	1.2
CM500	3/4"	100-500	80-400	1.25	840	60	4.04
CM800	3/4"	160-800	120-600	2	1040	60	4.93
CM801	1"	160-800	120-600	2	1040	60	4.93
CM1000	3/4"	200-1000	150-750	2.5	1040	60	4.93
CM1001	1"	200-1000	150-750	2.5	1040	60	4.93
CM1500	1"	300-1500	200-1100	3	1250	75	8.2
CM5000	1"	400-2000	300-1500	5	1250	75	8.2
CM3000	1"	600-3000	400-2200	7.5	1250	75	9.5
CM200L	1/2"	40-200	30-150	0.5	525	40	1.14
CM335L	1/2"	65-335	50-250	0.75	700	40	1.95
CM336L	3/4"	65-335	50-250	0.75	700	40	2

*Unit is Lb.in; L is extended length type

Shockproof package

Specially designed for our torque products



100% Calibrated

Unique serial number for each torque wrench, corresponding to the certificate of calibration



MICROMETER ADJUSTABLE TORQUE WRENCH

FEATURES

- Accuracy: $\pm 4\%$ in clockwise direction from 20% to 100% of capacity.
- All steel construction, superb durability.
- Permanently stamped major and minor scales for precision torque values setting.
- Set torque by locking ring. The rebound self-locking structure can reliably lock the required torque.
- Grooved non-slip grip fits comfortably in your hand. Reversible ratchet head, fine-tooth ratchets suitable for operation in confined spaces requiring only 8 degrees swing.
- International standards: DIN ISO6789, ASME B107.14



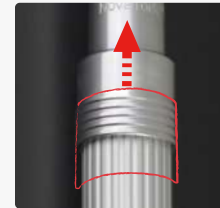
Torque Locking



1 Pull and hold the locking ring



2 Rotate the tube to adjust the torque by the other hand



3 Release the locking ring after torque being set

Model No.	Square Drive	Torque Range		Increment N.m	Length mm	Width mm	Weight kg
		N.m	Lb.ft				
TWM12	1/4"	2.5-12	20-105*	0.1	290	38	0.68
TWM20	1/4"	4.0-20	30-180*	0.1	290	38	0.68
TWM30	3/8"	6.0-30	50-250*	0.2	318	38	0.82
TWM31	1/2"	6.0-30	50-250*	0.1	318	38	0.82
TWM60	3/8"	10-60	9-45	0.5	388	38	0.96
TWM61	1/2"	10-60	9-45	0.5	388	38	0.96
TWM100	3/8"	20-100	15-75	0.5	443	38	1.04
TWM101	1/2"	20-100	15-75	0.5	443	38	1.04
TWM125	3/8"	25-125	20-90	0.5	443	38	1.04
TWM126	1/2"	25-125	20-90	0.5	443	38	1.04
TWM20	1/2"	40-200	30-150	1	468	40	1.16
TWM335	1/2"	65-335	50-250	1	528	40	1.3
TWM336	3/4"	65-335	50-250	1	528	40	1.34
TWM500	3/4"	100-500	80-400	2.5	855	60	5
TWM800	3/4"	160-800	120-600	4	1055	60	5.9
TWM811	1"	160-800	120-600	4	1055	60	5.9
TWM1000	3/4"	200-1000	150-750	5	1055	60	5.9
TWM1001	1"	200-1000	150-750	5	1055	60	5.9
TWM1500	1"	300-1500	200-1100	5	1260	75	9.2
TWM2000	1"	400-2000	300-1500	10	1260	75	9.2
TWM3000	1"	600-3000	400-2000	15	1260	75	10.5
TWM200L	1/2"	40-200	30-150	1	525	40	1.29
TWM335L	1/2"	65-335	50-250	1	700	40	2.1
TWM336L	3/4"	65-335	50-250	1	700	40	2.15
TWM500L	1"	300-1500	200-1100	5	1600	75	13
TWM2000L	1"	400-2000	300-1500	10	1600	75	13
TWM3000L	1"	600-3000	400-2000	15	1840	75	15.2

*Unit is Lb.in; L is extended length version



Matching Sockets

MECHANICAL TORQUE WRENCH

FEATURES

- Accuracy is $\pm 4\%$ from 20-100% of capacity.
- All metal structure, alloy steel pipe, durable.
- Clear scale, easy to read
- Minor scale is 1/10 of increment of main scale
- Pull to unlock lock ring keeps selected torque secure from accidental change.
- Quick release head
- Grooved non-slip grip

TECHNICAL SPECIFICATIONS

Model No.	Driver	Range	Fine Scale	Length	Weight
		[N.m]	[N.m]	[mm]	[Kg]
MS525	1/4"	5-25	0.25	250	0.35
MS1060	3/8"	10-60	0.5	310	0.47
MS1061	3/8"	10-60	0.5	415	0.92
MS1062	1/2"	10-60	0.5	425	0.98
MS10110	3/8"	10-110	0.5	460	1.06
MS10111	1/2"	10-110	0.5	470	1.17
MS30210	1/2"	30-210	1	490	1.26
MS60330	1/2"	60-330	1.5	565	1.34
MS100550	3/4"	100-550	2.5	900	4.3
MS160800	3/4"	160-800	4	1200	5.6
MS2001000	3/4"	200-1000	5	1200	5.6



TORQUE SCREWDRIVER

FEATURES

- Anti backlash designs assures that fasteners will not be accidentally un-tightened
- Stable torque output
Standard 1/4" square drive accommodates most commercially available sockets and screwdrivers
- Complies with US ASMEB I 07.14 standard, accuracy: $\pm 6\%$
- Lock ring on adjustable models prevents accidental changes of set torque value
- The aluminum handle is anodized for good appearance and lasting finish

TECHNICAL SPECIFICATIONS

Model No.	Square drive	Torque cN.m	Increment cN.m	Length mm	Width mm	Weight mm
TS50	1/4"	10-50	1	170	30	0.32
TS100	1/4"	20-100	2	170	30	0.32
TS250	1/4"	50-250	5	170	30	0.32
TS360	1/4"	60-360	5	170	30	0.35
TS600	1/4"	1-6N.m	1	175	30	0.35



DIAL TORQUE WRENCH DUAL TYPE

APPLICATION

Dial Torque Wrenches are designed for the automotive, nuclear and industrial markets in addition to military installations throughout the world. This series features sturdy torsion beam design for dependable long life and accuracy. The small frame model offers working ranges from 3 in. lbs. to 50 ft. lbs. in 1/4" and 3/8" drives. The large frame model continues from 100 ft. lbs. through 2,000 ft. lbs. with 1/2", 3/4" and 1" drives. Accuracy of both series of $\pm 4\%$ meets or exceeds ASME B107.14-1994, ISO 6789 bi-directionally from 20% to 100% of scale.

FEATURES

- **DUAL SCALE TYPE**
- Sturdy body construction insures durability
- Easy to read laser marked dual scale
- Large easy to read dial is shock resistant and protected by a tough metal guard
- Memory needle retains highest torque reading applied
- Calibrated in both CW and CCW direction
- Accuracy: $\pm 4\%$ of indicated value, CW & CCW, from 20% to 100% of full scale



TECHNICAL SPECIFICATION

Model No.	Metric system		British measurement		Spigot size (mm)	Length (mm)	Package
	Torque range	Division value	Torque range	Division value			
STW-1.8	0-18dNm	.25dNm	0-15in.lb	.25in.lb	6.3 (1/4")	254	Hollow plastic case
STW-3.5	0-3.5Nm	.1Nm	0-30in.lb	.5in.lb	6.3 (1/4")	254	Hollow plastic case
STW-6	0-6Nm	.1Nm	0-50in.lb	1in.lb	6.3 (1/4")	254	Hollow plastic case
STW-9	0-9Nm	.2Nm	0-75in.lb	1in.lb	6.3 (1/4")	254	Hollow plastic case
STW-9A	0-9Nm	.2Nm	0-75in.lb	1in.lb	9.5 (3/8")	254	Hollow plastic case
STW-12	0-12Nm	.2Nm	0-100in.lb	2in.lb	9.5 (3/8")	254	Hollow plastic case
STW-18	0-18Nm	.5Nm	0-150in.lb	2in.lb	9.5 (3/8")	254	Hollow plastic case
STW-24	0-24Nm	.5Nm	0-200in.lb	4in.lb	9.5 (3/8")	254	Hollow plastic case
STW-30	0-30Nm	.5Nm	0-250in.lb	5in.lb	9.5 (3/8")	254	Hollow plastic case
STW-35	0-35Nm	1Nm	0-300in.lb	5in.lb	9.5 (3/8")	254	Hollow plastic case
STW-70	0-70Nm	2Nm	0-600in.lb	10in.lb	9.5 (3/8")	378	Hollow plastic case
STW-140	0-140Nm	2.5Nm	0-100ft.lb	2ft.lb	12.5(1/2")	546	Hollow plastic case
STW-240	0-240Nm	5Nm	0-175ft.lb	5ft.lb	12.5(1/2")	546	Hollow plastic case
STW-350	0-350Nm	10Nm	0-250ft.lb	5ft.lb	12.5(1/2")	546	Hollow plastic case
STW-480	0-480Nm	10Nm	0-350ft.lb	10ft.lb	19 (3/4")	708	Hollow plastic case
STW-800	0-800Nm	20Nm	0-600ft.lb	10ft.lb	19 (3/4")	1181	Hollow plastic case
STW-1000	0-1000Nm	20Nm	0-700ft.lb	10ft.lb	25.4 (1")	1310	Wooden case
STW-1400	0-1400Nm	20Nm	0-1000ft.lb	20ft.lb	25.4 (1")	1900	Wooden case
STW-2000	0-2000Nm	40Nm	0-1500ft.lb	30ft.lb	25.4 (1")	2400	Wooden case
STW-2800	0-2800Nm	50Nm	0-2000ft.lb	40ft.lb	25.4 (1")	3100	Wooden case

*NOTE: STW-800, STW-1000,STW-1400,STW-2000 and STW-2800 include Extension handle.

DIGITAL TORQUE SCREWDRIVER

FEATURES

- 5WV fULth ±&
- It will automatically shut down if there is no operation for 10 minutes to save power.
- Operate clockwise and counterclockwise.
- Three working modes of real time, peak value and preset value can be switched freely.
- Four torque unit options (N.m, lbf.ft, lbf.in, kgf.cm).
- It has the function of storing data in peak mode.
- Torque direction mark and battery power display.
- Overload protection: After the product is forced to 120% of the full range, the screen will display "oLoRd", indicating that it is overloaded and cannot continue to be applied.



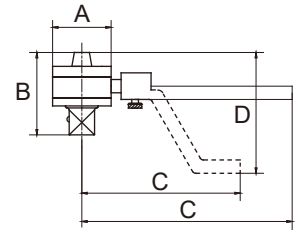
TECHNICAL SPECIFICATIONS

Model No.	Range (N.m)	Division value (N.m)	Accuracy	Nominal size of inner hexagon		Net weight (kg)
				inch	mm	
DTS505	0.05-0.5	0.0001	±2%	1/4	6.35	0.4
DTS220	0.2-2	0.001		1/4	6.35	
DTS440	0.4-4	0.001		1/4	6.35	
DTS880	0.8-8	0.001		1/4	6.35	

TORQUE MULTIPLIER

FEATURES

- Alloy steel construction, long life.
- Ratio accuracy: ±5%.
- There are three types of M series: M3.model, two reaction arms are available. M5 and M25 models, the position of the force cylinder on the reaction arm can be adjusted according to applications. Above 1500Nm, the model has anti-backlash built-in, more secure to operate.



Metric

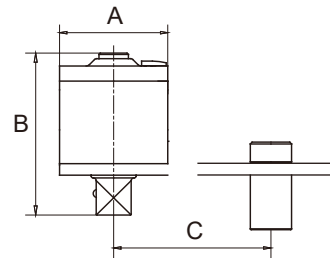
Model No.	Square Drive	Output Square Drive	Torque Range		Ratio	A mm	B mm	C mm	D mm	Tool Weight kg	Reaction Arm Weight kg
			N.m	Lb.ft							
TM1000	1/2"	3/4"	1000	750	3.3:1	71	85	245/175	130	1.4	0.77+0.63



TM1500



TM2500-TM1000



TECHNICAL SPECIFICATION

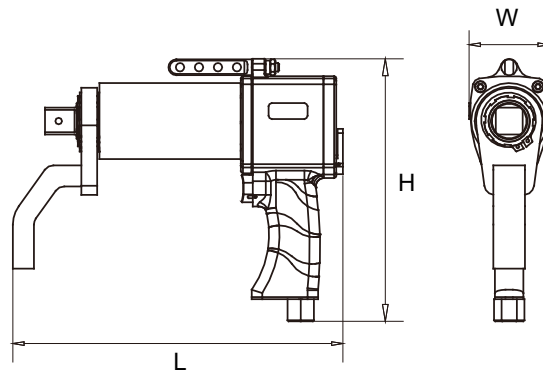
Model No.	Square Drive	Output Square Drive	Torque Range		Ratio	A mm	B mm	C mm	Tool Weight kg	Reaction Arm Weight kg
			N.m	Lb.ft						
TM1500	1/2"	1"	1500	1125	5:1	112	93	82-187	6.1	1.2
Model No.	Square Drive	Output Square Drive	Torque Range		Ratio	A mm	B mm	C mm	Tool Weight kg	Reaction Arm Weight kg
			N.m	Lb.ft						
TM2500	1/2"	1"	2500	1875	25:1	112	141	82-187	8.8	1.2
TM3000	1/2"	1"	3000	2250	25:1	112	141	82-187	8.8	1.2
TM3500	1/2"	1 1/2"	3500	2600	25:1	112	167	82-187	9.7	1.2
TM4000	1/2"	1 1/2"	4000	3000	25:1	112	167	82-187	9.7	1.2
TM4500	1/2"	1 1/2"	6000	4500	25:1	130	179	94.5-211	14.2	2.15
TM6000	1/2"	1 1/2"	8000	6000	25:1	162	195	130-294	23.8	3
TM10000	3/4"	1 1/2"	10000	7375	25:1	162	199	130-294	23.9	3

PNEUMATIC TORQUE WRENCH

— **Pneumatic torque wrenches** were widely used on automotive vehicles, petrochemicals, shipbuilding, electric power, aerospace, construction and other fields.

FEATURES

- For high torque and continuous work applications.
- Aluminum alloy handle, relatively light weight.
- Reaction arm, gear box and body can be flexibly connected to reach desired reaction point.
- Work in Clockwise and Counter-clockwise directions.
- Can be used with standard impact sockets.



TECHNICAL SPECIFICATIONS

Model No.	Output Square Drive	Gear box Diameter	Dimensions LxWxH mm	Torque Range N.m	Weight kg	Max. Pressure
PN350	3/4"	φ 50	259x65x250	70-350	3.1	6bar
PN800	3/4"	φ 59	272x75x252	160-800	4.3	6bar
PN1000	3/4"	φ 72	283x75x252	200-1000	5.7	6bar
PN1001	1"	φ 72	283x75x252	200-1000	5.7	6bar
PN2000	1"	φ 92- φ 59	370x100x267	400-2000	8.8	6bar
PN2500	1"	φ 92- φ 59	370x100x267	500-2500	9.3	6bar
PN4000	1"	φ 108- φ 59	400x108x270	800-4000	12	6bar
PN5000	1 1/2"	φ 108- φ 59	400x108x270	1000-5000	12	6bar
PN6000	1 1/2"	φ 126- φ 59	488x100x264	1200-6000	16	6bar

Please contact distributor for Impact Sockets.





***COATING THICKNESS GAGE
ULTRASONIC THICKNESS GAGE
SURFACE ROUGHNESS TESTER
ULTRASONIC FLAW DETECTOR
ULTRASONIC CALIBRATION BLOCK
CURRENT FLOW TEST PIECES
KETOS TEST RING
PIE GAGE
FIELD INDICATOR
TEST BLOCK MTU-3
CENTRIFUGE TUBE & STAND
MAGNETIC YOKE FLAW DETECTOR
ALUMINUM TEST BLOCK
TAM PANELS
DIGITAL CONCRETE TEST HAMMER
CONCRETE TEST HAMMER
CALIBRATION ANVIL
INDUSTRIAL ENDOSCOPE
VIBRATION TESTER***



COATING THICKNESS GAUGE CG510PL

The newly developed thickness gauge CG510PL is very solid and has a high accuracy. The simple and safe operation is done by menu navigation. Complicated and time-intensive settings are therefore eliminated.

Precise and Practical

for layers up to 10 mm

FEATURES

- Measuring range of 0-1250 micron (F1 standard probe)
- Measuring range of 0-10 mm (F10 special probe)
- High accuracy
- Switch between mil and micron
- Upper and lower limits can be preset; with visual and audible alarm when exceeding
- 2 measuring modes: continuing mode and single mode
- 2 operation modes: direct mode with 99 storage places and batch mode with 495 locations (5 blocks with 99 values each)
- Automatic recognition of the probes
- Quick calibration and zeroing of the instrument



Probe model	F1	Special probe F10	F400	N1	N02	
Base material (substrate)	iron or steel			non-magnetic metals such as aluminum, zinc, copper, brass, some stainless steel grades		
Layers	paints, lacquers, plastics, chromium, copper, zinc, enamel, etc. (non-magnetic)			anodized aluminum, lacquer, enamel, plastics, paper, glass, rubber, etc. (non-conductive)		
Function principle	magnetic induction			eddy current		
Measuring range	0-1250 µm (0-1.25 mm) 0-49 mil	0-10000 µm (0-10 mm) 0-394 mil	0-400 µm (0-0.4 mm) 0-16 mil	0-1250 µm (0-1.25 mm) 0-49 mil	10-200 µm (0.01-0.2 mm) 4-8 mil	
Low range resolution	0.1 µm	10 µm	0.1 µm	0.1 µm	1 µm	
Accuracy (H-nominal value)	One-point-calibration	±(3% H +1) µm	±(3% H +10) µm	±(3% H +1) µm	±(3% H +1.5) µm	±(3% H +1) µm
	Two-point-calibration	±((1-3)% H +1) µm	±((1-3)% H +10) µm	±[(1-3)% H +0.7] µm	±[(1-3)% H +1.5] µm	---
Measuring conditions	Min. curvature radius	1.5 mm	10 mm	convex / 1 mm	3 mm	only flat
	Diameter of minimum area	Ø 7 mm	Ø 40 mm	Ø 3 mm	Ø 5 mm	Ø 7 mm
	Critical thickness of substrate	0.5 mm	2 mm	0.2 mm	0.3 mm	no limit
SaluTron® D6 Specifications						
Memory capacity	2 operation modes: direct mode with 99 storage places and batch mode with 495 locations (5 blocks with 99 values each)					
Power supply	2 x 1.5 V Mignon Alkali					
Size	125 x 65 x 30 mm or 4.7" x 2.6" x 0.9"					
Weight	340 g (with batteries) or 11 oz					

FUNCTIONS

- Statistic values: mean number of measurements, standard deviation
- 2 methods for calibration: 2-point or zero calibration error system of the probe can be corrected with basic calibration method
- Switch between manual and automatic memory
- Delete function: single data or all data in memory
- Analysis of measured values via histogram
- Acoustic signal after each measurement / buttons beep adjustable
- Backlight
- Low battery indicator
- Automatic or manual shutdown
- Transfer of results to PC

STANDARD DELIVERY





- Fe (F1) - or NFe (N1)-probe
- 5 Standard test plates
- 1 Substrate
- Stable service case
- Manual
- RS232 cable and software for PC transfer

Optional:

- Other probes

Technical details subject to change.

TECHNICAL SPECIFICATION OF OPTIONAL PROBE

	<p>F1 probe - Fe base Measuring range: 0~1250μm F1 probe measure the thickness of non-magnetic coating layers covered on magnetic substrate. Such as: non-magnetic (aluminum, chrome, copper, enamel, rubber, paint) covered on magnetic substrate (steel, alloy and magnetic stainless steel)</p>
	<p>N1 probe - Al base Measuring range: 0~1250μm N1 probe can measure the thickness of non-conductive coatings layers covered on conductive substrate. Such as: (enamel, rubber, paint, vanish, plastic anodic-oxide layer) covered on conductive substrate (aluminum, brass, zinc and nonmagnetic stainless steel).</p>
	<p>F3 Probe- Fe base Measuring range: 0~3000μm F3 probe measure the thickness of non-magnetic coating layers covered on magnetic substrate. Such as: non-magnetic (aluminum, chrome, copper, enamel, rubber, paint) covered on magnetic substrate (steel, alloy and magnetic stainless steel)</p>
	<p>N3 Probe- Al base Measuring range: 0~1250μm N3 probe can measure the thickness of non-conductive coatings layers covered on conductive substrate. Such as: (enamel, rubber, paint, vanish, plastic anodic-oxide layer) covered on conductive substrate (aluminum, brass, zinc and nonmagnetic stainless steel).</p>
	<p>F1/90° probe - Fe base Measuring range: 0~1250μm F1/90° use to measuring surface that can't be touch by ordinary probe, it can measure the thickness of non-magnetic coating layers covered on magnetic substrate. Such as: non-magnetic (aluminum, chrome, copper, enamel, rubber, paint) covered on magnetic substrate (steel, alloy and magnetic stainless steel)</p>
	<p>F10 probe - Fe base (Large range) Measuring range: 0~10000μm F10 probe measure the thickness of non-magnetic coating layers covered on magnetic substrate. Such as: non-magnetic (aluminum, chrome, copper, enamel, rubber, paint) covered on magnetic substrate (steel, alloy and magnetic stainless steel)</p>
	<p>ST-1250 Standard coating thickness calibration pieces Standard thickness value between 0~1250μm 5pcs/set, include Fe or Al base</p>
	<p>ST-10000 Standard coating thickness calibration pieces (Large range) Standard thickness value between 0~10000μm 5pcs/set, include Fe or Al base</p>

Technical details subject to change.

SPLIT TYPE COATING THICKNESS GAUGE CG150

FEATURES:

- Magnetic and eddy current thickness measurement methods are adopted
- Two measuring methods integrated in one probe, recognize Fe or NFe base automatically
- 2.4" IPS TFT with 320*240 pixels, high definition display shows more details
- Three measuring modes, more accurate and stable
- It has the function of temperature compensation of probe, which makes the measurement more accurate
- It has five statistics, which makes the measurement more convenient
- Various calibration methods are adopted
- It has storage function, and can store up to 500 measurement values
- It has the function of deletion, which is convenient for new measurement
- It can set the gauge and alarm the measured value outside the gauge automatically




unit:mm

TECHNICAL SPECIFICATION

Probe Type	F	N
Working Theory	Magnetic	Eddy Current
Testing Range (um)	0-1250	0-1250 0-40 (Chromium plating on copper)
Resolution(um)	0.1	0.1
Displaying Value	Zero point calibration (um)	$\pm(3\%H+1)$
	2 points calibration (um)	$\pm((1-3)\%H+1)$
Testing Condition	Min. radius of curvature(mm)	Convex 1.5
	Min. Area Diameter (mm)	$\Phi 7$
	Zero boundary thickness of matrix (mm)	0.5
Temperature	0 C --40 C	
Humidity	20%RH-90%RH	
Power	AAA battery x2pcs (1.5V)	
Size	155mmx68mmx27mm	
Weight	About 230g	

STANDARD ACCESSORY

Item	Quantity	
Main unit	1 pc	
Probe	1 pc	
Calibration Foil	1 set (6 pcs)	
Battery	2 pcs	
Instruction Manual	1 pc	

PROBE REFERENCE

Substrate Coating	Non magnetic coating of organic materials (such as paint, enamel, plastic and anodizing, etc.)	Non magnetic non-ferrous metal coating (such as chromium, zinc, aluminum, copper, tin, silver, etc.)
Such as iron, steel and other magnetic gold	F probe Testing range : 0-125um	F probe Testing range : 0-1250um
Such as copper, aluminum, brass, zinc, tin bar non-ferrous metals	N probe Testing range: 0-1250um	N probe Testing range : 0-40um (for chrome plating on copper only)

F/N COATING THICKNESS GAUGE CG140

TECHNICAL SPECIFICATION

Probe Type		F	N
Working Theory		Magnetic	Eddy Current
Testing Range(um)		0-2000	0-1500 0-40(chromium plating on copper)
Min. Resolution)(um)		0.1	0.1
Display Resolution	Zero Calibration(um)	±(3%H+1)	±(3%H+1)
	2 points calibration(um)	± { (1-3)%H+1 }	± { (1-3)%H+1 }
Testing Condition	Min. Radius of curvature(mm)	Convex 1.5	Convex 3
	Diameter Of minimum area(mm)	∅7	∅5
Critical thickness of base(mm)		0.5	0.3
Operation condition	Temperature	0 °C -- 40 °C	
	Humidity	20%RH -- 90%RH	
	Magnetic Environment	Non Strong magnetic field	



AAA battery X 3
114mm*58mm*29mm
70g(without battery)

COATING THICKNESS GAUGE CG210,CG230,CG250

G210: FERROUS

CG230: NON-FERROUS

CG250: FERROUS AND NON-FERROUS

FEATURES

- With separate probe(s)
- Operating principle: magnetic induction/eddy current (F/NF)
- Measuring range:0-1250um/0-50mil
- Resolution; 0.1/1
- Accuracy: ±1-3%n or ±2.5um
- Min. measuring area: 6mm
- Min. sample thickness: 0.3mm
- Battery indicator: low battery indicator
- Metric/ imperial: convertible
- Power supply: 4x1.5V AAA(UM-4)battery
- Auto power off
- Operating Conditions:0-+45°C(32°F-104°F), ≤90%RH
- Dimensions: 126x65x27mm
- Weight: 81g(not including battery)
- Optional accessories: other range 0-200um to 15000um



COATING THICKNESS GAUGE CG410,CG430,CG450

G410: FERROUS

CG430: NON-FERROUS

CG450: FERROUS AND NON-FERROUS

FEATURES

- In built probe(s)
- Operating principle: magnetic induction/eddy current (F/NF)
- Measuring range:0-1250um/0-50mil
- Resolution; 0.1/1
- Accuracy: ±1-3%n or ±2.5um
- Min. measuring area: 6mm
- Min. sample thickness: 0.3mm
- Battery indicator: low battery indicator
- Metric/ imperial: convertible
- Power supply: 4x1.5V AAA(UM-4)battery
- Auto power off
- Operating Conditions:0-+45°C(32°F-104°F), ≤90%RH
- Dimensions: 126x65x27mm
- Weight: 81g(not including battery)
- Optional accessories: other range 0-200um to 15000um



COATING THICKNESS GAUGE CG200 CG220

FEATURES:

- 1m length external probe
- Range 0~2000um, accuracy $\pm 2.5\% \pm 1\mu\text{m}$
- 128*128dots LCD display
- Menu interface
- LCD can be rotated to be used easily
- Red LED alarm indication
- LCD shows mean, maximum, minimum and standard deviation
User can set alarm limit
- Readings can be stored, recalled and deleted
- Easy to do zero calibration and support multi-point calibration
- Connect with PC via USB and download readings
- Multi-language supported
- Up to 5 measurement groups supported
- Automatically detect the substrates type(F or N)
- Unit optional: um, mm and mils



CG200



TECHNICAL SPECIFICATION

Model No.	CG200	CG220
Probe type	Fe	Fe
	NFe	NFe
Principle	Magnetic induction	Magnetic induction
	Eddy currents	Eddy currents
Range	0~2000um	0~2000um
Accuracy	$\pm(2.5\%+1\mu\text{m})$	$\pm(2.5\%+1\mu\text{m})$
Resolution	0~99.9um(0.1m),	0~99.9um(0.1m),
	others(1um)	others(1um)
Readings memory	320	320
Interface: USB		
Power supply: Two 1.5v AAA batteries		
Operation environment: -10 to 50°C		
Storage environment: -10 to 60°C		
Certificate and standard: CE, ROHS, ISO 2178, 2360		
Size and weight: 113mmX53mmX24mm 80g		



CG220

ULTRASONIC THICKNESS GAUGE UTG151

FEATURES:

- Display : 4.5 digits LCD with EL backlight.
- Measuring display mm/inch selectable
- Measuring Range : 0.75 ~ 300mm (in Steel).
- Sound Velocity Range: 1000~9999 m/s.
- Resolution : **UTG-151: 0.1/0.01mm,0.01/0.001inch**
- Accuracy : $\pm (0.5\% \text{Thickness} + 0.04)$ mm, depends on materials and conditions
- Four measurements readings per second for single point measurement, and ten per second for Scan Mode.
- Memory for up to 20 files (up to 99 values for each file) of stored values.
- Power Source : Two "AA" size, 1.5 Volt alkaline batteries. 100 hours typical operating time (EL backlight off).
- Communication : RS232 serial port for UTG-151. No communication port for UTG-150.
- Outline dimensions : 150×74×32 mm.
- Weight:245g



ULTRASONIC THICKNESS GAUGE UTG132

FEATURES:

- Display: 4-digital LCD display
- Resolution:0.01mm(1.20 to 99.99mm)
0.1mm(100 to 300mm)
- Working frequency: 5MHz
- Measuring range: 1.20 to 300.00mm (steel)
- Minimum limit for tube measuring: $\Phi 20 \times 3$ mm (steel)
- Accuracy: $\pm (1\%H + 0.05)$ mm H denotes the measured thickness.
- Sound velocity range: 1000 to 9999 m/s
- Measuring sound velocity with a given thickness:
Measuring range:1000 to 9999 m/s.
- When the given thickness 20mm, the accuracy is $\pm 5\%$; when the given thickness over 20mm, the accuracy is $\pm 1\%$.
- Operation temperature: 0°C to 40°C
- Power supply: 3*1.5V AAA batteries
- Operation current: Normal operation current ≤ 45 mA
With Backlight turn on current ≤ 55 mA
Stand-by current: ≤ 20 uA
- Size: 72*146*29mm
- Weight: 202g



ULTRASONIC THICKNESS GAUGE UTG180

APPLICATION

UTG180 is a digital ultrasonic thickness gauge. Based on the same operating principles as SONAR, the UTG180 is capable of measuring the thickness of various materials with accuracy as high as 0.01 millimeters, or 0.001 inches. It is suitable for a variety of metallic and non-metallic materials.

TECHNICAL SPECIFICATION

- Display : 128×64 dot matrix LCD with EL backlight.
- Measuring Range : 0.75 ~ 300mm (in Steel).
- Sound Velocity Range: 1000~9999 m/s.
- Resolution : 0.1/0.01mm (selectable) .
- Accuracy : $\pm (0.5\% \text{Thickness} + 0.04)$ mm
- Units: Metric/English unit selectable.
- Four measurements readings per second for single point measurement, and ten per second for Scan Mode.
- Memory for 20 files (up to 99 values for each file) of stored values.
- Upper and lower limit can be pre-set. It will alarm automatically when the result value exceeding the limit.
- Power Supply : Two "AA" size, 1.5 volt alkaline batteries. 100 hours typical operating time (EL backlight off).
- Communication : RS232 serial port.
- Case : Extruded aluminum body suitable for use under poor working conditions.
- Outline dimensions : 132H X 76.2W mm.
- Weight : 345g

MAIN FUNCTIONS

- Capable of performing measurements on a wide range of material, including metals, plastic, ceramics, composites, epoxies, glass and other ultrasonic wave well-conductive materials
- Four transducer models are available for special application, including for coarse grain material and high temperature applications.
- Probe-Zero function, Sound-Velocity-Calibration function
- Two-Point Calibration function.
- Two work modes: Single point mode and Scan mode.
- Coupling status indicator showing the coupling status.
- Battery information indicates the rest capacity of the battery.
- Auto sleep and auto power off function to conserve battery life.
- Optional software to process the memory data on the PC.
- Optional thermal mini-printer to print the measured data via RS232 port.

Table A: Transducer Selection

Model	Frequency MHz	Diameter mm	Measuring Range	Lower limit (work area)	Description
N02	2.5	14	3.0 mm – 300.0 mm (in Steel)	20 mm	For thick, highly attenuating, or highly scattering materials
N05	5	10	1.2 mm – 230.0 mm (in Steel)	Ø20 mm x 3.0 mm	Normal Measurement
N05 /90°	5	10	1.2 mm – 230.0 mm (in Steel)	Ø20 mm x 3.0 mm	standard transducer
N07	7	6	0.75 mm – 80.0 mm (in Steel)	Ø15 mm x 2.0 mm	For thin pipe wall or small curvature pipe wall measurement
HT5	5	14	3.0 – 200.0mm (in Steel)	30 mm	For high temperature (lower than 300 °C) measurement



STANDARD DELIVERY

No.	Item
1	Main body
2	Transducer
3	Couplant
4	Instrument Case
5	Operating Manual
6	Screwdriver
7	Alkaline battery

OPTIONAL ACCESSORY

1	Transducers, see Table A
2	Mini thermal printer
3	Print cable
4	DataPro Software
5	Communication Cable

ECHO TO ECHO ULTRASONIC THICKNESS GAUGE UTG430C

APPLICATION

UTG430C High Resolution (0.01mm) Ultrasonic Thickness gauge with Echo-Echo mode for thru coating measurement.

UTG430C is with a specific dual echo mode. In this mode a paint layer or coating is ignored and the substrate metal measured accurately. It can be used for measuring different materials between 3mm and 20mm thicknesses.

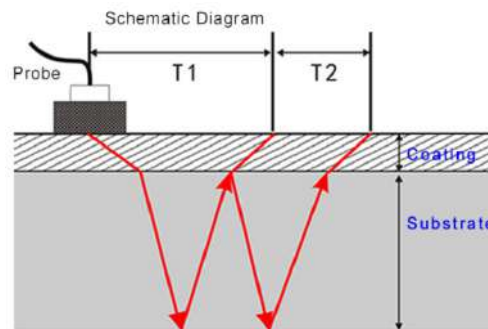
In addition, the UTG430C has a higher resolution display providing the user with measurements to 0.01mm with increased accuracy to $\pm 0.05\text{mm}$. And the UTG430C also multiple probe recognition so users can install other, optional transducers to extend the testing capability.



FEATURES

- 0.01mm or 0.001 inches resolution
- 128*64 pixels display with backlight
- 500 thickness readings can be stored
- Hi-Low alarm setting
- Minimum thickness capture
- V-sound path correction
- Built-in 7 types of transducer compensation line
- Through paint/coating function

PRINCIPLE OF ECHO TO ECHO



Normal thickness measurement mode measures the time difference T1 between the transmitting pulse and the first bottom echo (including the coating thickness). Through coating mode measures the time difference T2 between two continuous bottom echoes (excluding coating thickness)

TECHNICAL SPECIFICATION

Measurement Range	Standard Mode: 0.8mm to 300mm (steel) Thru Coating Mode: 3mm to 20mm
Measurement Mode	P-E (pulse-echo) E-E (echo-echo) with dual-crystal probes
Display Units	mm or inch
Sound Velocity Range	1000 to 9999 m/s
Display Resolution	0.01mm / 0.001"
Accuracy	$\pm 0.05\text{mm}$ (up to 10mm) $\pm 0.5\%H + 0.1 \text{ mm}$ (>10mm)
Calibration Mode	Zero, 2-point
Memory	500 readings in 5 files max.
Display Type	128x64 dot-matrix LCD screen with EL backlight

A/B SCAN ULTRASONIC THICKNESS GAUGE UTG650





TECHNICAL SPECIFICATION

Display screen	2.4VGA(320X240) color OLED , 10000:1
Working Theory	Ultrasonic pulse / echo / echo method using double crystal probe
Testing range	0.6mm --508mm(0.025-20 inch)
Testing Resolution	0.01mm or 0.1m(0.01 or o.1inch)
Unit	Mm/inch
Display Mode	Thickness Value mode, Min./Max. Value capture mode, Difference / reduction mode
V path modification	Automatic V path correction to compensate the non-linearity of double crystal probe
Measurement update rate	4HZ,8HZ,16HZ/second optional
Velocity range	500-9999m/s, 0.0179-0.3937in/us
Language	Chinese/English/French
Alarm setting	Max./Min. Value alarm, Dynamic change of thickness reading color during alarm
Power	1.5vAA battery x 2
Power off	Manual/5,10,20 Minutes latter turning off automatic
Working Temperature	-10 C to 50 C
Size	153mmx76mmx37mm
Weight	280g(with battery)

TECHNICAL SPECIFICATION OF OPTIONAL PROBE

	<p>No2(5PΦ10/90) Probe for Casting Workpiece Measuring range: 3.0-300.0mm in steel, 3.0-40.0mm in casting material Frequency: 2Mhz Min.area: 20mm</p>
	<p>No5(5PΦ10(CT-10)) Standard Probe Measuring range: 1.2-230.0mm Frequency: 5Mhz Min.area φ20x3mm Straight and 90°optional</p>
	<p>No7(7PΦ6(XT-6)) Probe for Thin Workpiece Measuring range: 0.75-80.0mm Frequency: 7Mhz Min.area φ15x2mm</p>
	<p>TS32 Probe (large measuring range) Measuring range: 3-500.0mm Frequency:2Mhz Min.area φ22mm</p>
	<p>HT5 (ZW5Φ14-300)Probe for High Temperature 350°C Measuring range: 3.0-200.0mm Frequency: 5Mhz Min.area: 30mm</p>
	<p>HT6(ZW5Φ14-450) Probe for High Temperature 450°C Measuring range: 3.0-200.0mm Frequency: 5Mhz Min.area: 30mm</p>

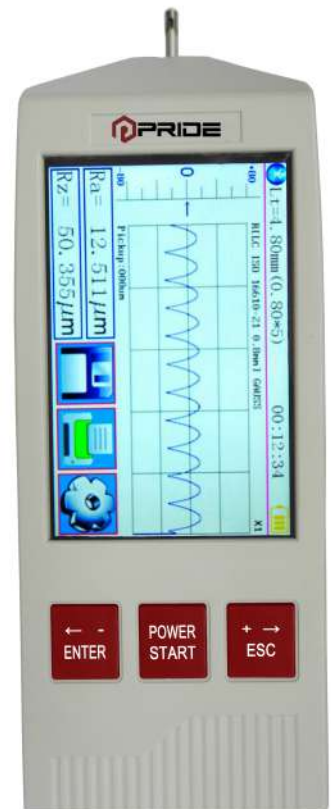
STEP TEST BLOCK

Model No.	Photo	Descriptions	Materials
U-P02-0001		4 step block Size: 3mm / 5mm / 10mm / 15 mm L x W: 80 x 20mm Tolerance: +/- 0.0005 inch or 0.01mm	1018 Steel ASTM E797
U-P02-0002		4 step block Size: 0.250"/ 0.500"/ 0.750"/ 1.000" L x W: 3.15" x 0.8" Tolerance: +/- 0.0005 inch or 0.01mm	1018 Steel ASTM E797

SURFACE ROUGHNESS TESTER RUG-450

APPLICATION

Surface Roughness Tester RUG-450 allows surface roughness measurement both on metal and non-metal workpieces. It can be used on variety of machining parts and operates on various surfaces, not only flat but also outer cone, outer cylinder, curved, pinholes, grooves, recesses grooves and axle etc. It is suitable for machining and manufacturing, quality control, inspection departments, especially for measurement on large and heavy workpiece, assembly line on site.



FEATURES

- Mechatronics and ergonomics design, small size, light weight, easy to operation
- The stylus drive unit can be stored within the main unit for standard measurement, or separated from the display unit by using the supplied cable which allows more flexible measurement in any orientation. The driver can be separated and reattached in one simple step.
- DSP chip control and data processing, high speed, low power consumption
- 22 Parameters: Ra, Rz, Rq, Rt, Rp, Rv, R3z, R3y, Rs, Rsk, Rz(JIS), Rsm, Rku, Rmr, Ry(JIS), Rmax, R_{pc}, Rk, Rpk, Rvk, Mr1, Mr2
- Measurement range up to 160 μm (can be optional to 320 μm)
- 3.5 inches color graphic TFT touch screen, wide viewing angle, excellent readability and an intuitive rich display, it
- includes a backlight to improve visibility in dark environments
- Can be operated using buttons or touch screen
- It provide Bluetooth Capability, support wireless connection with mobile and mini printer
- Built-in lithium-ion rechargeable battery and control circuit, high capacity, no memory effect, it works over 50 hours while fully charged, and there is remaining charge indicator, charging hint
- Large capacity data storage, 100 item of raw data and curves can be stored
- Real-time clock setting and display for easy data recording and storage
- Reliable circuit and software design to preventing the motor stuck
- All parameters or any of the parameters which set by users can be printed
- Optional accessories: Bluetooth capability, curved sensor, pinholes sensors, measurement, stand, extension rod, printer
- Portable Surface Roughness Tester complies with international standards ISO, DIN, ANSI, JIS

TECHNICAL SPECIFICATION

Model No.		RUG-450
Measurement Range	The Z axis (vertical)	320±(-60µm~160µm)
	The X axis (Transverse)	17.5mm
Resolution	The Z axis (vertical)	0.002µm / ±20µm
		0.004µm / ±40µm
		0.008µm / ±80µm
		0.020µm / ±160µm
Measurement item	Parameter	Ra,Rz,Rq,Rt, Rp,Rv,R3z,R3y,Rz(JIS),Rs,Rsk,Rsm,Rku,Rmr,Ry(JIS), Rmax, R _{Pc} , R _k , R _{pk} , R _{vk} , Mr1, Mr2
	Standard	ISO,ANSI,DIN,JIS
	Graphic	Bearing area curve, Roughness profile, Primary profile
Filter		RC,PC-RC,Gauss,D-P
The sampling length(lr)		0.25, 0.8, 2.5mm
Assessment length (ln)		Ln= lr×n n=1~5
Sensor	Measuring method	Skidded
	Stylus tip	Diamond, 90 cone angle, 5µmR
	Force	<4mN
	Skid part	hard alloy, skid radius of curvature: 40mm
	Traversing speed	lr=0.25, Vt=0.135mm/s
		lr=0.8, Vt=0.5mm/s
		lr=2.5, Vt=1mm/s
Return	Vt=1mm/s	
Accuracy		Less than ±10%
Repeatability		Less than 3%
Power supply		Built-in Lithium ion battery, Charger: DC5V,3200mA
Outline dimension		Main unit: 52 x 55 x 158mm drive: 23 x 27 x 115mm
Weight (main unit)		Around 400g
working Environment		Temperature: - 20 C ~ 40 C Humidity: < 90% RH
Store and Transportation		Temperature: - 40 C ~ 60 C Humidity: < 90% RH

Measuring Range

Parameter	Range
Ra,Rq	0.005µm~32µm
Rz,R3z,Ry,Rt,Rp,Rm	0.02µm~320µm
Sk	0~100%
S,Sm	0.02~100mm
tp	0~100%



SURFACE ROUGHNESS TESTER RUG-430

FEATURES

- Easy to operate menu
- Display of 14 roughness parameters
- Wave filtering methods: RC , PC - RC , GAUSS , D-P
- Cutoff wavelength: 0.25 mm / 0.8 mm / 2.5 mm
- Displays the probe positioning
- Sensor for measurements in boreholes , openings and grooves
- USB interface
- Selectable languages: English, German



TECHNICAL SPECIFICATION

Roughness	Ra, Rz==Ry(JIS), Rq, Rt==Rmax, Rp, Rv, R3z, R3y, Rz(JIS), Rs, Rsk, Rku, Rsm, Rmr; µm/µinch switchable
Measuring range	Ra, Rq: 0,005 - 16 µm Rz, R3z, Ry, Rp, Rt, Rm: 0,02 - 80 µm RSm, RS: 1.000 µm Rsk, Tp: 100 %
Resolution	0,001 µm / 0,04 µinch
Accuracy	≤ 10%
Repeatability	≤ 6%
Cross wavelength (cut-off)	0,25 mm / 0,8 mm / 2,5 mm / Auto
Traversing length Ln	1 - 5 cut-off (selectable)
Traverising speed	0.25 mm - 0.135 mm/s 0.8 mm - 0.5 mm/s 2.25mm - 1 mm/s
Digital-filter	RC, PC-RC, GAUSS, D-P
Sensor	Standard-model TS-100, induktive, Diamond peak 5µm radius, 90°-angle
Sensor measuring range	± 20µm / ± 40µm / ± 80µm
Language	Menu: English, German
Display	128 x 64 OLED Dot Matrix Display
Power supply	Built-in 3.7V Li-Ion Battery, charger AC220V/DC5V, 800mA / 3 hour, operating time 20 hours
Surroundings	-20°C - +40°C, ≤ 90% rel. air humidity
Norms	ISO, DIN, ANSI, JIS
Dimensions (L x W x H)	141 x 55 x 40 mm (Device without probe)
Weight	400g

Specifications are subject to change without prior notice.

SURFACE ROUGHNESS TESTER RUG-320



TECHNICAL SPECIFICATION

Roughness parameters:	Ra (ISO), Rz (DIN), Rq, Rt
Units of measurement:	μm, μinch (adjustable)
Measuring range:	Ra: 0.05 – 15.0 μm Rz: 0.1 – 50 μm
Cut-off length:	0.25 mm / 0.80 mm / 2.50 mm
Filter:	2 CR
Display:	LED, blue
Probing path:	6 mm
Probing speed:	1.0 mm / Sec.
Accuracy:	Acc. to ISO class 3, EN55022, EN60555-2, EM60555-3, EN50088-1
Measuring principle:	Probing system, piezoelectric
Stylus:	Diamond, 5 mm radius
Power supply:	3.6V lithium-ion batteries, 9VDC charger
Dimensions:	L106 x W70 x H24mm
Weight:	200 g
Calibration:	With CAL function (using the keyboard)
Minimum diameter of cylindrical parts:	40 mm (V groove)
Main functions:	Main functions Reading selection: Ra, Rz, Rq, Rt; measuring length adjustment; calibration function; automatic charge status control with acoustic signal; battery charging function, tester can be used while the battery is charging.
Environmental conditions:	Operating – 0°C– 40°C ambient temperature – < 80% relative humidity – Avoid vibrations; do not measure corroded surfaces

FEATURES

- Surface roughness tester offering excellent value for money
- Piezoelectric probing system
- OLED liquid crystal, illuminated display with adjustable contrasts
- Dynamically shows measuring progress on the display
- Rechargeable, long-life, fast-charging lithium-ion batteries
- Acoustic and visual warning signals when lithium-ion batteries are low
- Integrated sliding cover to protect the probe stylus
- Turns itself off automatically after 2 minutes
- Acoustic „Start Test Ready“ signal
- Ra, Rz, Rq and Rt roughness parameters in a single device
- Easy calibration using the keyboard
- USB port for connecting the charger cable
- Full LCD dot matrix and interface notifications DSP chip for data processing and calculation (enables fast data processing)

MEASURING PRINCIPLE

During the measuring process, the sensor makes inline movements along the probing path. The stylus moves up and down in accordance with the probing path profile. These movements are translated into electric signals, which are amplified, filtered and converted into digital signals using an A/D converter. The CPU then processes these signals as Ra and Rz results (or Rq and Rt results) and shows them on the display.

APPLICATION

- Measures roughness of hard surfaces
- For example at: Labs, measuring rooms, workshops, engineering facilities, and many more

STANDARD DELIVERY

- Roughness tester RUG-320
- Roughness test block
- Battery charger
- Suitcase
- Operation manual

SURFACE ROUGHNESS TESTER RUG-300 RUG-310

APPLICATION

Widely used in production site to measure surface roughness of various machinery-processed parts, calculate corresponding and clearly display all measurement parameter.
Meets the standard of ISO4287, DIN4768, JIS B, ANSI46.1



FG4A74E7'78?4 8EL' BcgbaT_4WxfbeXF'

7UffmVWgy'	%ZUV'Y'UbX'GcZkUFY'Zcf'FGI&'&# G6
A U|b' l b|h	&Zl hYbg|cb'FcX'
GHubXUFX'GYbgcf'	'zGF D!%&\$' ; fccj Y'gmi g'
GHubXUFX'Gla d'Y'D'UH'	(zGF D!%&\$' 7i fj Uhi fY'DfcVY'
Dck Yf'5XUdHrf'	)zGF G!%A YUgi fYa YbhiGhUbX'
C dYfU|jcb' A Ubi U'	
GWYk Xfj] Yf'	
5X↑ ghUV'Y'@Y['	
GYbgcf' DfchVWcf'	

Model No.		RUG-310	RUG-300
Range	Ra	0.005-16um/0.020-629.9uinch	0.050-10um/1.000-400.0uinch
	Rq	0.005-16um/0.020-629.9uinch	——
	Rz	0.020-160um/0.780-6299uinch	0.020-100um/0.780-4000uinch
	Rt	0.020-160um/0.780-6299uinch	——
Accuracy		<= ±10%	
Resolution		0.001um(Reading<10um)	
		0.01um(10um<=reading<100um)	
		0.1um(reading>=100um)	
Display		LCD	
Fluctuation of display value		<=6%	
Profile digital filter	Filtered profile	RC,PC-RC,GAUSS	——
	Non-filtered profile	D-P	——
Driving speed	Measuring	Vt=0.135mm/s(Sampling Length=0.25mm)	
		Vt=0.5mm/s(Sampling Length=0.8mm)	
		Vt=1mm/s(Sampling Length=2.5mm)	
Returning	Vt=1mm/s		
Pickup measurement range		±80um	
Evaluation length		1-5L(Selectable)	
Metric/Imperial		Conversion	
Memory		7Groups	---
Built in Li-ion battery		Rechargeable	
Dimension		140x52x48mm(5.5x2.2x1.9inch)	
Net Weight		420g	

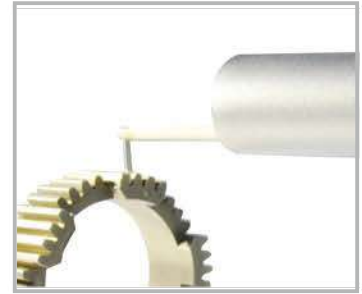
Specification for the Sensor

Model No.		RUG-310	RUG-300
Sensor	Radius	5um	10um
	Material	Diamond	Diamond
	Measuring force	4mN(0.4gf)	16mN(1.6gf)
	Probe angle	90°	90°
	Vertical radius of guiding head	48mm	48mm
	Maximum driving stroke	17.5mm/0.7inch	17.5mm/0.7inch
	Cutoff length	0.25mm 0.8mm 2.5mm	

TECHNICAL SPECIFICATION OF OPTIONAL PROBE



PS230 standard pickup



PS230V pickup (7mm changeable diameter)



PS230U pickup (7mm)



PS231 pickup for tooth surface (120° probe)



PS232 pickup for small hole (ø1.33)



PS233 pickup for deep groove (10mm)



PS236 pickup for extra deep groove (20mm)



PS238 pickup for super deep groove (30mm)

TECHNICAL SPECIFICATION OF OPTIONAL ACCESSORY

	<p>RUG-001 Metal Substrate Working platform, adjustable height 200mm. With flexible and stable operation and wider application range. Roughness of complex shapes can also be measured. Measurement stand enable the adjustment of the position of stylus to be more precise and measurement to be more stable. If Ra value of measured surface is relatively low, Using measurement platform is recommended.</p>
	<p>RUG-002 Marble Substrate Working Platform, adjustable height 300mm. With flexible and stable operation and wider application range. Roughness of complex shapes can also be measured. Measurement stand enable the adjustment of the position of stylus to be more precise and measurement to be more stable. If Ra value of measured surface is relatively low, Using measurement platform is recommended.</p>
	<p>RUG-003 Standard Roughness Calibration Block Multi-engraved lines (Square Wave/Analog sine wave) Made by optical glass, with high hardness, high accuracy standard roughness value, anti-scratch, Anti-deformation, has longer life than metal roughness block. Meet standard ISO5436-1:2000 Approximation: Ra=0.1um, 0.2um, 0.4um, 0.8um, 1.6um, 3.2um, 6.4um Size:40*30*8mm Customizable Various values Square Wave/Analog sine wave. welcome to inquire.</p>
	<p>RUG-004 Standard Roughness Calibration Block Single engraved lines Made by optical glass, with high hardness, high accuracy standard roughness value, anti-scratch, has longer life than metal roughness block. Meet standard ISO5436-1:2000 Approximation: H10-20um (roughness tester use filter D-P, test RT value) Customized Value available, welcome to inquire.</p>
	<p>RUG-100 Roughness Comparator (30 pcs/set) This set contains standards of the six most important machining methods in the prevalent "AA" values. These surface roughness is used to compare and determine the degree of the surface finish by comparison method and eye estimation or magnifying glass. The surface rough contact blocks is made of 45 super carbor steel except the GCr15 which is using to plat lapping the sample block. All 30 specimens are calibrated in u"AA (Arithmetical Average) and in the metric equivalents um Ra.</p>
	<p>RUG-005 Mini thermal printer External printer, connect by USB interface, suitable for Kairda models.</p>

ULTRASONIC FLAW DETECTOR UFD300

URD300 provides the most functionalities that an NDT professional needs. It has "time-proven" stable quality. Full color LED display makes it easy to read even under the direct sun shine. Battery lasts for 10 hours which totally supports the "whole day work with one night charge" remote outdoor site NDT working style. We spend years to make it stable and tough.

MAIN FEATURES:

- Automated calibration. Automated gain
- DAC, AVG, TCG, B scan, AWS
- High-speed capture and very low noise
- Solid metal housing
- High contrast viewing of the waveform from bright
- Powerful pc software and reports can be export to excel
 - Automated display precise flaw location(Depth d, level p, distance s, amplitude, sz dB, ϕ)
 - Automated switch three staff gauge ((Depth d, level p, distances
 - Automated calibration of transducer Zero-point, Angles, Front edge and material Velocity ;
 - Convenient to make and use DAC,TCG and AVG to evaluate the echo, the curve can be modified and compensated
 - 6dB DAC functions;
 - 500 independence setup, any criterion can be input freely, we can work in the scene without test block ;
 - Big memory of 1000 A graph
 - Automated gain and gain scan;
 - Peak Hold and Peak Memory ;
 - B scan;
 - AWS D1.1
 - Automated make video of test process and play;
 - Powerful pc software and reports can be export to excel;
 - Li battery, continue working time up to 10 hours;
 - The embeded software can be online updated ;

OTHER ASSISTANT FUNCTION:

- Display freeze
- Automated echo degree
- Angles and K-value
- Lock and unlock function of system parameters
- Electronic clock calendar
- Two gates setting and alarm indication
- Gate and DAC alarm

SPECIFICATIONS:

Title	Parameter	Title	Parameter
Measuring Range (mm)	0 ~ 10000	Measurement Mode	Single, Dual, Thru
Vertical Linearity Error	$\leq 3\%$	Reject	0~80%
Horizontal Linearity Error	$\leq 0.1\%$	Pulse Displacement (μs)	-20 ~ +3400
Sensitivity Leavings	$\geq 62\text{dB}$	Zero (μs)	0.0 ~ 99.99
Dynamic range	$\geq 34\text{dB}$	Port Type	LEMO 1
Resolving Power	$\geq 36\text{dB}$	Operating Temperature (°C)	-20 ~ 50
Frequency Range (MHz)	0.5 ~ 20	H×W×D(mm)	240×150×50
Gain (dB)	0 ~ 130	Weight (kg)	1.6 (with battery)
Material Velocity (m/s)	1000 ~ 15000		



Table 1.1 List of standard configurations

Designation	Quantity
Main unit	1
2.5A/9V power adaptor (110v-240v)	1
probe connecting cable	1 BNC-LEMO00
Carrying case	1
Instruction manual	1
Straight transducer	10mm 4MHz (One)
Angle transducer	8×9 60°4MHz (One)
Rechargeable battery	1

Table 1.2 List of options (optional items will come free with standard configuration package)

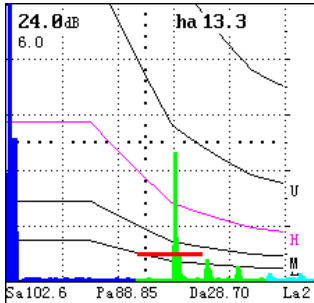
Designation	Quantity
Serial cable	USB
Communication software for PC	1 set

Language optional: English, German, Italian, Korean, etc.

ULTRASONIC FLAW DETECTOR UFD550

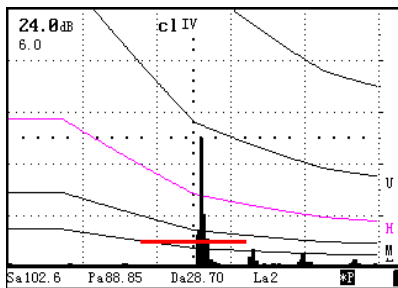
Weld inspection in the power generation and petrochemical industries
 Flaw location with display of all coordinates, sound path, (reduced) surface distance, depth position and leg number

Sa 102.6 Pa88.85 Da28.70 La2

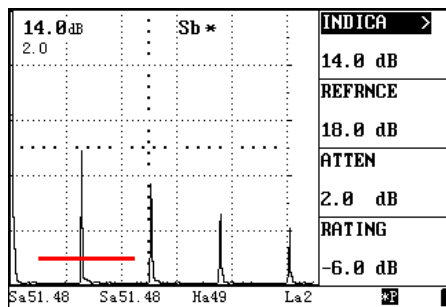


Display of every sound beam reflection (number of half skip distances or legs) and identification of leg color on the "live" A-scan

New powerful DAC/TCG with JIS DAC Module according to JIS Z 3060-2002

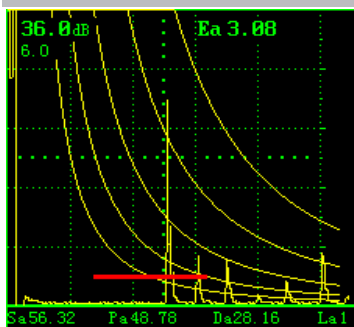


Amplitude evaluation in dB referring to a previously recorded reference echo or according to AWS D1.1



Precise thickness measurement for the automobile industry

You can measure the sound path difference precisely at the peaks of an echo sequence with a resolution of 0.01mm/ DGS evaluation with direct digital ERS readout



Inspection of forgings in the power generation and aerospace sectors;

The automatic setting of the pulse repetition frequency from 20Hz to 1kHz h

Eliminates phantom echoes while inspecting fine grain and large work pieces.

Defects from an equivalent reflector size 0.3mm onwards will be detected

Inspection of special materials in the aerospace and automobile industry

Corrosion wall thickness in the power generation and petrochemical sectors

During wall thickness measurement on corroded parts using dual element probes, you simultaneously check the reading together with the A-scan, thus receiving the maximum reliability for the measurement. On hot surfaces you use the auto-freeze function, minimizing the probe's contact time. The minimum capture mode gives you the thinnest measured reading at the end of a continuous scan

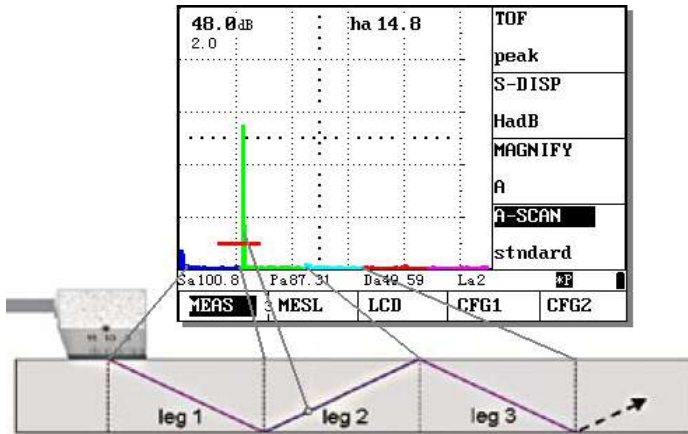
Harsh field and industrial environments

- Extended temperature range from 0°C to 60°C
- Weight only 2.0 kg
- Extended battery life to 8 hours under real test conditions

Fast and bright color screen

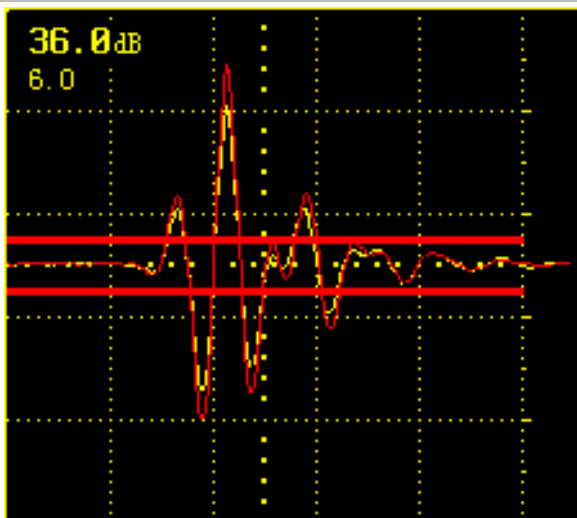
Color brings you many additional benefits in your daily inspection job:

- Color display of monitor gates and curves (DAC, TCG, DGS) for direct recognition
- Color coded display of angle beam inspection of welds



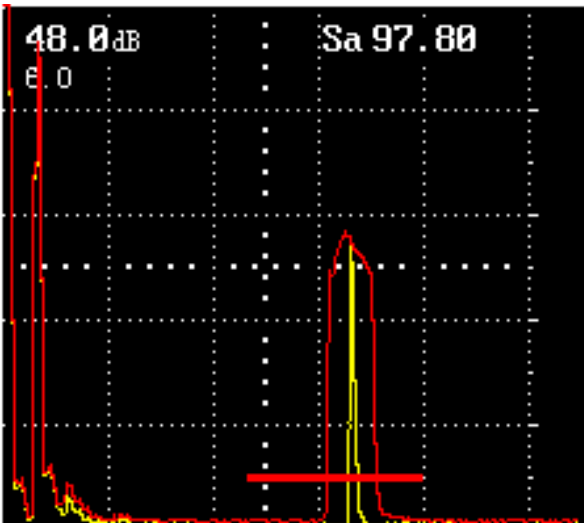
Color-coded display of legs in tests using angle-beam probes

- Use of color to display references (A-scan) to make comparisons easy
- Multicolor screen combinations for operator preferences and to select best suitable color scheme according to the working environment



A-scan comparison

- Colorized envelope curve display for echodynamic analysis



Envelope curve

Square Wave Pulsar (option)

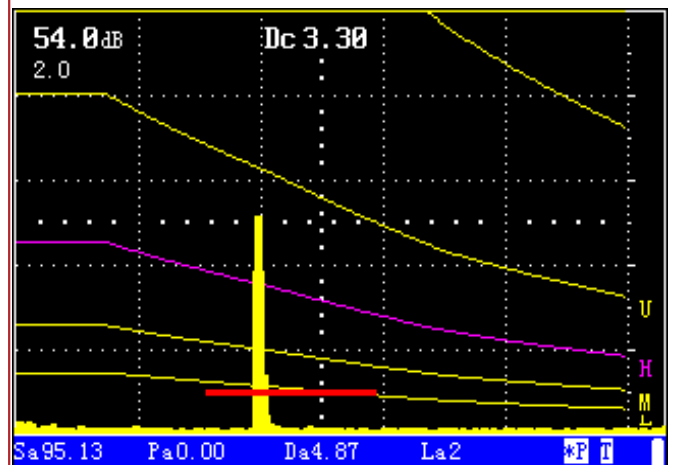
Selectable and tunable for optimum probe matching to satisfy a wide range of tough-to-penetrate applications.

For low frequencies, square wave pulsers allow optimum probe matching by adjusting pulse width and voltage. Difficult to penetrate metallic applications and especially non-metals inspection like composite materials are optimized.

- Pulse width is tunable up to 1000ns in 10ns steps for optimum probe matching and versatility in meeting a wide range of applications.
- Pulser voltage is adjustable from 25 to 500V in 10V steps.

DAC Functions

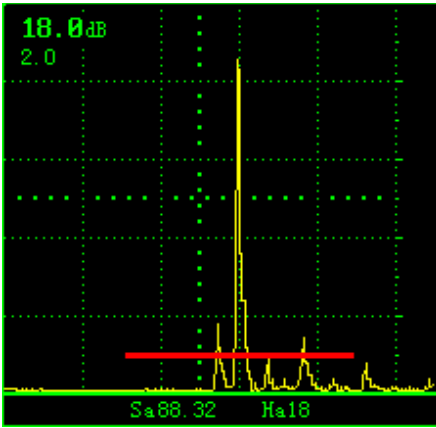
Recording reference echoes in DAC mode will be simplified by automatic gain adjustment. The echo to be recorded will be set automatically at 80% and stored the dB-difference to the first reference echo can be displayed, if needed. The new JIS-DAC meets the latest JIS Z3060-2002 specifications.



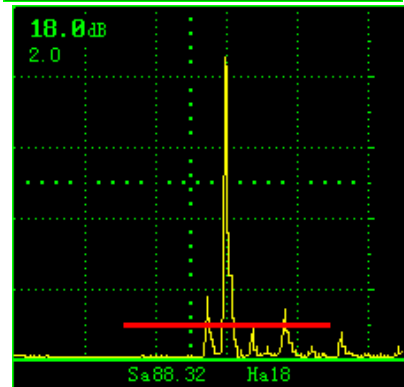
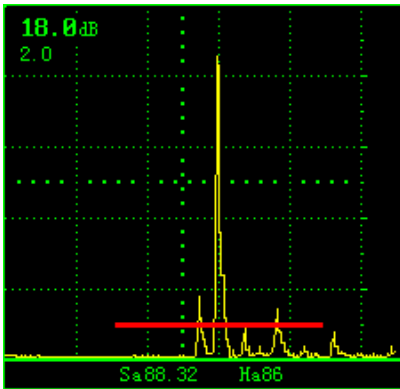
New DAC function according to the latest JIS Z3060-2002

Three different time of flight measurements

Depending on the time of flight mode selected, the distances and amplitudes will be measured and displayed for the echo in each gate.



Peak: sound path and amplitude at the highest echo in the gate



Curved surface correction

Corrects sound path information when using an angle beam transducer to circumferentially inspect a curved surface for either tubular or bar inspections.

Data reporting

200 datasets enable a great number of calibration settings and test results to be stored. Also extended up to 1200 documents with a memo field containing 9 added information for memory and analysis. The report or setting can be uploaded to a computer using an RS-232 or USB (with USB-RS accessory) for saving, reviewing or printing.

Flank: sound path at the intersection of the first echo with the gate threshold; amplitude at the highest echo in the gate.

Curved surface correctio

Corrects sound path information when using an angle beam transducer to circumferentially inspect a curved surface for either tubular or bar inspections.

Data reporting

900 datasets enable a great number of calibration settings and test results to be stored. Also Extended up to 1900 datasets. Each report can be documented with a memo field containing 9 added information for memory and analysis. The report or setting can be uploaded to a computer using an RS-232 or USB (with USB-RS accessory) for saving, reviewing or printing.

Measure readings

Up to 20 measure readings are selected to be displayed on the screen, measure can be carried out instantaneous or behind freeze.

Other benefits

We have also implemented innovations from the computer industry in the battery concept to make your daily work easier: the rechargeable lithium-ion battery pack enables you to carry out your inspections for at least 8 hours. Charging is easily carried out internally within the instrument just by connecting the power adapter to the detector.

Language optional: English, Portuguese, German, Italian, Korean, French etc.

V1 ULTRASONIC CALIBRATION BLOCK

Model No.

APPLICATION

UB-3

V1 Calibration Block UB-3 is designed for verification of the ultrasonic flaw detectors used in the course of welded joints quality control by the UT method. It is DSTU 4002-2000 (ISO 2400, DIN 54120, B.S. 2704) compliant. V1 Calibration Block allows:

- to determine the UT beam index and X-value with an error of ± 0.5 mm
- to determine the probe angle of the ultrasonic wave with an error of ± 1 ang. degr.
- to determine uncontrolled ("dead zone") of the ultrasonic straight beam piezoelectric probes in steel
- to determine resolution (in steel) of the ultrasonic straight beam piezoelectric probes
- to determine the scan horizontal linearity of the ultrasonic flaw detectors
- to adjust the scan speed and sensitivity of the straight beam, double crystal, angle beam piezoelectric transducers

TECHNICAL SPECIFICATION

- The Block is made from the low-carbon fine grain steel with small attenuation coefficient
- Ultrasonic longitudinal waves velocity in the Block material at a frequency of 5.0 MHz and a temperature of $(20 \pm 5)^\circ\text{C}$ is (5920 ± 30) m/s
- Ultrasonic longitudinal waves in the pad (polymethyl acrylate) of the Block material is at a frequency of 5.0 MHz and a temperature of $(20 \pm 5)^\circ\text{C}$ is (2670 ± 100) m/s
- Geometrical dimensions of the Block correspond to DSTU 4002-2000 (ISO 2400, DIN 54120, B. S. 2704)
- The Block weight is up to 4.8 kg (approx.8.8 lbs).



V1 ULTRASONIC CALIBRATION BLOCK

Model No.

APPLICATION

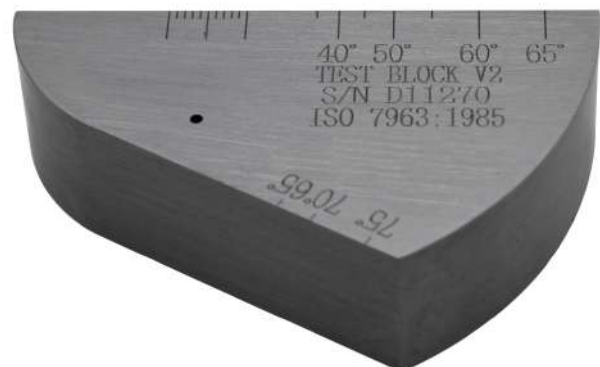
UB-4

V2 Calibration Block is designed for verification of the ultrasonic flaw detectors used in the course of welded joints quality control by the UT method. It is DSTU 4002-2000 (ISO 7963, B.S.2704) compliant. V2 Calibration Block allows:

- to calibrate the sweep of the flaw detector by the ultrasonic wave velocity for the straight beam piezoelectric transducers
- to calibrate the sweep of the flaw detector by the ultrasonic wave velocity for the angle beam piezoelectric transducers
- to set a conditional level of sensitivity of the UT flaw detectors with the straight and angle beam transducers
- to determine the probe index and X-value of the angle beam transducers
- to determine the UT wave entry angle in steel.

TECHNICAL SPECIFICATION

- Velocity of the ultrasonic longitudinal waves in the Block material at a frequency of 5.0 MHz and a temperature of $(20 \pm 5)^\circ\text{C}$ is (5920 ± 30) m/s
- Velocity of the ultrasonic shear waves in the Block material at a frequency of 5.0 MHz and a temperature of $(20 \pm 5)^\circ\text{C}$ is (3255 ± 15) m/s
- Geometrical dimensions of the Block correspond to DSTU 4002-2000 (ISO 7963, B. S. 2704).



CURRENT FLOW TEST PIECES

Model No: MT-106

FEATURES:

- 0-1000A: BS6072, RPS700 1000-3000A: RPS700
- 3000-5000A: RPS700



KETOS TEST RING

Model No: MT-107

FEATURES:

- Ketos Test Ring is a mag particle test Piece with pre-drilled holes to simulate subsurface discontinuities. It offers a reliable method of verifying magnetic particle system performance when actual test parts with discontinuities are not available.
- Meets ASTM E709-08, ASTM E1444, BPVC.



PIE GAUGE (3pcs)

Model No: MT-109

FEATURES:

- Field strength and direction, rugged and reliable, industry standard
- Used to establish adequacy of Field per requirements of MIL-STD 271D, MIL-S-23284, ASTM NAVYSHIPS 250-1500 and B & W S-102T Specifications



PIE GAUGE(1pc)

Model No: MT-108

FEATURES:

- Field strength and direction, rugged and reliable, industry standard.
- Used to establish adequacy of Field per requirements of MIL-STD 271D, MIL-S-23284, ASTM NAVYSHIPS 250-1500 and B & W S-102T Specifications.



FIELD INDICATOR

Model No: MT-110

FEATURES:

- Scaled to +/- 20 gauss from zero for determining the level of residual magnetism to 5% of full-scale reading.
- scaled to +/- 10 gauss MT-110-1
- scaled to +/- 20 gauss MT-110-2
- scaled to +/- 50 gauss MT-110-3



TEST BLOCK MTU-3

Model No: MTU-3

FEATURES:

- The MTU-3 Test Block is used to check the sensitivity of magnetic particle materials.
 - This two sided block has a variety of indications ranging in size from small to large.
 - Use the MTU-3 to compare:
 - fresh and used materials
 - different brands of materials
 - different types of materials (visible, dual sensitivity and fluorescent, etc.)
 - Use the MTU-3 to verify:
 - That aerosol cans are actually delivering particles
- MTU-3 Blocks are prepared in accordance with the EN ISO 9934 – 2 : 2002.
- Natural cracks on both sides
Can be used with fluorescent or visible particles



CENTRIFUGE TUBE & STAND

Model No: MT-111

FEATURES:

- Essential items in ascertaining bath concentration. Centrifuge Tube meets the requirements of ASTM D96 and BS4069



AC/DC MAGNETIC YOKE FLAW DETECTOR MT-12/220

MT-12/220 AC/DC Magnetic Yoke Flaw Detector is a portable instrument used to inspect the surface for flaws on irregular shapes such as chains, crank shafts, springs, forged pieces and valves. It can be used in many industries and applications including offshore, ship building, combustion motor parts, mining, machinery, oil pumps, aerospace parts, automotive, bridge building, chemical industry, pressure container and rail industry and so on.

MT-12/220 AC/DC can be used with AC or DC power supply. DC type uses a rechargeable battery and is suitable for applications where no power supply is available. The AC type uses a 220V power supply.



MODEL NO.: MT-12/220

TECHNICAL SPECIFICATION

- Power: 220V 50Hz AC or 12V DC
- Recharging Power: 220V 50Hz
- Battery: MF12 – 7.2AH
- Working Current: AC = 1.4A / DC = 1.7A
- Recharging Time: 8 to 15 Hours
- Battery Working Time: Up to 6 Hours
- Working Interval: 60 seconds ON, 60 seconds OFF
- Polar Distance: 50 to 200 mm
- Lifting: AC >5.5kg / DC >22kg
- Weight:
 - Probe: 3.1kg
 - Battery Bag: 2.9kg
- Dimension:
 - Probe: 208 × 52 × 146 mm
 - Battery: 160 × 70 × 100 mm
 - Charger: 75 × 50 × 40 mm

STANDARD DELIVERY

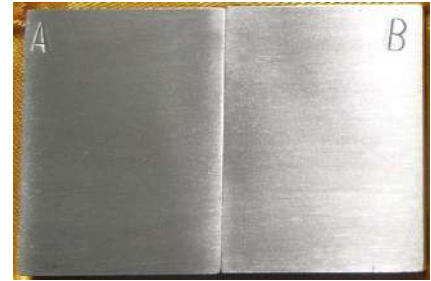
- AC or DC Magnetic Yoke Flaw Detector
- Battery Bag
- Battery
- AC Power Cable
- DC Power Cable
- Fuse (5A) x 2
- Manual
- Product Certificate
- Carrying Case

ALUMINUM TEST BLOCK

Model No: PT-100

FEATURES:

- Convenient method for comparing sensitivity of penetrant materials.
- Compare used with fresh materials or incoming materials with those in stock to assure uniformity.
- Complies with ASME Boiler and Pressure Vessel Code, Section, Article6, Section T-662.



TAM PANELS(5 small holes)

Model No: PT-101

FEATURES:

- Combination test panel monitors both adequacy and sensitivity of the entire penetrant process.
- Each 4"×6" stainless steel panel includes a rough surface for checking thoroughness of wash technique, plus a polished chrome section with 5 "star" shaped defects ranging from coarse to extremely fine
- Level of defect found indicates both penetrant sensitivity and proper process control.



TAM PANELS(3 small holes)

Model No: PT-102

FEATURES:

- Combination test panel monitors both adequacy and sensitivity of the entire penetrant process
- Each 4"×6" stainless steel panel includes a rough surface for checking thoroughness of wash technique, plus a polished chrome section with 5 "star" shaped defects ranging from coarse to extremely fine
- Level of defect found indicates both penetrant sensitivity and proper process control



STAINLESS STEEL TEST BLOCK for washability

Model No: PT-103

FEATURES:

- Monitors washability of water-wash or post-emulsified penetrants
- Grit-blasted rough surface retains "background" when washability is impaired
- May be used repeatedly if thoroughly cleaned after each use
- Complies with ASTM E165



TAM PANELS(6 small holes)

Model No: PT-106

FEATURES:

- Stainless steel, surface coated nickel, shaped 6 defects, high sensitivity



DIGITAL CONCRETE TEST HAMMER CTH-150

Standard: ASTM C805, BS 1881-202, DIN 1048, UNI 9198, EN12504-2

Concrete Strength Evaluation

This digital concrete test hammer, microprocessor operated, entirely designed with advanced technology, performs basic concrete testing with continuous automatic recording of all parameters, register and process data and then transfer them to a PC. Equipped with an electronic transducer that measures the rebound values and supplies automatically the results on a graphic display.

Main Features

- Higher accuracy and stability of the readings
- Intensity of result viewing with wide LCD Display
- Use exclusively only on the surfaces to be tested & on the testing anvil
- The test result is automatic recorded, calculation & storage.
- Works efficiency of rebound detection and reduce
- Data transfer to PC or mini printer (optional)

TECHNICAL SPECIFICATION

Model Number	CTH-150
Impact Energy	2.207 Nm
Display Graphic	High-contrast Graphic Display 256x64 (pixel) - LED Blue Display
Spring Tension	785±30 N/m
Stretch Tension Spring	75±0.3 mm
Battery Lifetime Power	3.7 V (lithium battery 1600 mAh)
Test Result Storage	240 Group
Reading Unit	MPa, Psi & kgf/cm ²
Casing Dimension (mm)	320 (L) x 190 (W) x 90 (H) mm
Approx. Weight	2 kg

Unit Consists Of :

Model Number	Parts Description	Qty
CTH-150	Digital Concrete Test Hammer	1 no.
CTH-P001	Grinding Stone	1 no.
CTH-P002	Plunger Spring & Reading Indicator	1 set.
CTH-P003	Tools Kit Set	1 set.
CTH-P004	Charger & Com. Cable	1 set.
CTH-P005	Smartz Carry Case	1 no.

*1 Copy of Manual Instruction

Optional Accessories :

Model Number	Accessories Description
CTH-P006	Bluetooth Mini Printer
CTH-P007	Printer Paper (56 mm Width)



CTH-150



Digital Display



Soft Silicone End Cap for comfort operation.



CTH-P007



CT-120C

CONCRETE TEST HAMMER (HIGH STRENGTH)

Standard: ASTM C805, BS 1881-202, DIN 1048, UNI 9198, pr EN12504-2

Concrete Strength Evaluation

Used to determine the compressive strength of concrete. Fully aluminium casing, high quality internal mechanism, extra durability up to 300,000 test cycle and with additional soft silicone cap for comfortable usage.



CT-120
CT-130



CT-120C



CT-120B

TECHNICAL SPECIFICATION

Model No.	CT-120	CT-130
Impact energy	2.207 Nm	0.735 Nm
Hammer mass	135 g	135 g
Spring constant	0.79 N/mm	0.26 N/mm
Spring extension	75 mm (2.95")	75 mm (2.95")

Unit Consists Of :

Model Number	Parts Description	Qty
CT-120/CT-130	Concrete Hammer	1no.
CT-P002	Grinding Stone	1no.

*1 Copy of Manual Instruction

CALIBRATION ANVILS

Model No.	Description
CT-120C	Concrete Hammer Anvil
CT-120B	Concrete Hammer Anvil

INDUSTRIAL ENDOSCOPE ED300

APPLICATION

ED300 Industrial Endoscope is equipped with 5 inch screen,integrated appearance design,one handed operation can also be achieved,mega pixels,combined with the front ultra bright LED lamp beads,can clearly see the internal dark areas,waterproof,oil resistant,wear resistant,can be suitable for various component inspections,pipeline inspections,mechanical inspections,industrial equipment inspection etc.





LED integrated lighting, sufficient light source



3.9mm/6mm Probe optional



Multiple pipelines are available



5 inch large screen, more convenient to watch



Quick pipeline replacement



Combined battery, easy to disassemble



WiFi Wireless Transmission (optional)

TECHNICAL SPECIFICATION

MODEL NO.		ED300	ED310	ED320	ED330	ED340	ED350	ED360
Lens	Direction	Front view						
	FOV(θ)	120°						
	(DOF)	10mm~120mm						
	Pixels	1000,000pixels						
	Illumination	LED Integrated lighting						
Probe	Lenght(L)	12.5±0.5mm						
	Diameter(D)	6mm						
	Articulation	360°Omnidirectional head						
	Bend angle(α)	160°±10°			150°±10°	130°±10°	120°±10°	110°±10°
	IP grade	IP67						
	Working temperature	-20°C~70°C						
Insert tube	Length	1m	2m	3m	4m	5m	6m	7m
	Materials	Flexible (tungsten braided tube)						

Host	Dimension	350*155*59mm
	Display	5 inch industrial touch LCD screen
	Output port	HDMI video output, Micro USB、TF card slot
	Storage	32G
	Power	Special rechargeable lithium battery pack, online charging, battery life \geq 4 hours
	IP grade	IP54
	Working temperature	-10°C~50°C
	Storage temperature	-20°C~60°C
	Relative humidity	Max 95%, No condensation
	Operation System	Multifunctional operating system
System	Operation method	Button navigation, dual camera and video buttons
	Support Function	With freeze, zoom, photo, flip, video playback, analog ruler functions
	File Format	Image: JPEG (JPG), Video: AVI
Packing Case	Support Language	French, English, German, Spanish, Italian, Japanese
	Weight	3.9kg
	L*W*H	47.9*38.7*15.5cm

INDUSTRIAL ENDOSCOPE ED400

APPLICATION

ED400 Industrial Endoscope equipped with 5-inch high-definition liquid crystal display, 360-degree omnidirectional guidance function, 720p million high-definition camera, can intuitively judge whether the observation part is qualified, support photo and video archiving, clear picture and video, this series of industrial video endoscope can be applied to precision casting, pharmaceutical manufacturing, automobile manufacturing and other application scenarios.

- **Support temperature warning**
Display of temperature measurement system (optional)
- **Fiber optic lighting has bright color**
High brightness and good color rendering
- **0.95mm~8mm**
Multiple probes can be directly selected
- **WiFi Wireless Transmission**
(Optional)
- **Mega pixel HD camera**
- **360° all way Articulation**



Micro USB
TF card
HDMI port

Screen

⏻ ON/OFF/Screen freezes

📷 button Photo/Video

▲ UP/Flip button

☰ OK Menu/OK button

Power



☀️ Brightness adjustment /Delete

↶ button Return/Playback

▼ Down/Zoom button

Insert tube (Length for optional)



Probe
(1MP HD resolution, 360° Full way articulation)



Optical fiber illumination for clearer images



Quick to change probes



5 inch screen, more convenient to watch



WiFi wireless transmission (optional)



Temperature warning (optional)



More probes for optional

TECHNICAL SPECIFICATION

MODEL NO.		ED400	ED410	ED420	ED430	ED440	ED450
Lens	Direction	Direct view/Side view/Double view					
	View angle(θ)	120°					
	DOF	3mm~30mm, 8mm~150mm, 10mm~200mm, 50mm~infinity					
	Pixel	1MP					
	Illuminating system	Rear high-power LED fiber optic transmission					
Probe	Length(L)	13±0.5mm					
	Diameter(D)	6mm					
	Articulating	360 full direction articulation					
	Bending Angle(α)	170°±10°		160°±10°	150°±10°	130°±10°	120°±10°
	IP grade	IP67					
	Working temperature	-20℃~70℃					
Insert tube	Length	1m	2m	3m	4m	5m	6m
	Material	Flexible (tungsten braided tube)					

Host	Dimension	350*155*59mm
	Display	5 inch industrial touch LCD screen
	Output port	HDMI video output, Micro USB, TF card slot
	Storage	32G
	Power	Special rechargeable lithium battery pack, online charging, battery life \geq 4 hours
	IP grade	IP54
	Working temperature	-10℃~50℃
	Storage temperature	-20℃~60℃
	Relative humidity	Max 95%, No condensation
System	Operation System	Multifunctional operating system
	Operation method	Button navigation, dual camera and video buttons
	Support Function	With freeze, zoom, photo, flip, video playback, analog ruler functions
	File Format	Image:JPEG (JPG), Video:AVI
	Support Language	French, English, German, Spanish, Italian, Japanese
Packing Case	Weight	3.9kg
	L*W*H	47.9*38.7*15.5cm

INDUSTRIAL ENDOSCOPE ED150

APPLICATION

- Automotive / Diesel Repair and Maintenance.
- Inspection of hard-to-reach or hard-to-see area or equipment.
- Plumbing, construction, restoration applications.
- Science Education.
- Outdoor Exploration.

FEATURES

- View live inspection video instantly on the 4.5' IPS HD display.
- 720P high definition for image capture and video recording.
- 180° image flip monitor.
- High sensitivity for low-light HD camera chip in the tip.
- Cree LED flash assisting dark area work.
- Adjustable handle.

TECHNICAL SPECIFICATION

Monitor:

- Screen: 5 inch IPS HD Display
- Screen Resolution: 854x480 pixels (FWVGA)
- Image Capturing Resolution: 1920x1080 (JPG)
- Video Recording Resolution: 1920x1080, 1280x720 (MOV)
- Port: Micro USB charging port / Micro SD card slot
- Storage: 32GB Micro SD card
- Flash Light: 1 Watt Cree LED
- Power Source: 5000mAh lithium battery
- Battery Life: 5-6 hours
- Operating Temperature: 32° to 113°F (0° to 45°C)

Camera:

- Type: Single Lens, Straight-viewing
- **Diameter: 5.5mm(optional 3.9mm / 7.6mm / 8mm / 14.5mm)**
- **Probe Length: 1 Meter(optional 3 Meters / 5 Meters)**
- Probe Stiffness: Soft / Medium / Stiff
- Megapixel: 1.0 megapixel
- Resolution: 1280x720 pixels
- Viewing Angle: 70°
- Depth of Field: 1.18-inch to 3.94-inch (30mm to 100mm)
- LED Light: 6 Adjustable High-intensity LEDs
- Splash, Water, and Dust Resistant: Rated IP67 (maximum depth of 1 meter up to 30 minutes) under IEC standard 60529



VIBRATION TESTER VM-6370

FEATURES

- Can display the parameters of Displacement, Velocity and Acceleration simultaneously.
- In accordance with ISO 2954, used for periodic measurements, to detect out-of-balance, misalignment and other mechanical faults in rotating machines.
- Specially designed for easy on site vibration measurement of all rotating machinery for quality control, commissioning, and predictive maintenance purposes.
- Individual high quality accelerometer for accurate and repeatable measurements.
- Wide frequency range (10Hz~10kHz) in acceleration mode.
- Optional headphones for use as electronic stethoscope.
- Bearing condition monitoring function.
- Use USB/RS-232 data output to connect with PC.
- Provide Bluetooth data output choice.



TECHNICAL SPECIFICATION

ISO/IS2373 Motor Quality Standard According As Vibration Velocity				
Quality Rank	Rev(rpm)	H:high of shaft(mm)		
		Maximum vibration velocity rms(mm/s)		
		80<H<132	132<H<225	225<H<400
Normal	600~3600	1.8	2.8	4.5
	600~1800	0.71	1.12	1.8
Good(R)	1800~3600	1.12	1.8	2.8
	600~1800	0.45	0.71	1.12
Excellent(S)	1800~3600	0.71	1.12	1.8

TECHNICAL SPECIFICATION

Sensor	Piezoelectric Transducer	
Measuring Range	Acceleration	0.1m/s ² ~400m/s ² 0.3ft/s ² ~1312ft/s ² 0.0g~40g Equivalent Peak
	Velocity	0.01mm/s~400mm/s 0.004inch/s~16.0inch/s True RMS
	Displacement	0.001mm~4.0 mm 0.04mil~160.0 mil Equivalent Peak-peak
Frequency Range	Acceleration	10Hz~10kHz
	Velocity	10Hz~1kHz
	Displacement	10Hz~1kHz
Accuracy	5% of Reading+2 digits	
Operating Conditions	Temperature	0°C~50°C
	Humidity	<90%RH
Power Supply	2x1.5V AA(UM-3)Battery	
Dimensions	130mmx76mmx32mm	
Weight	340g(Not Including Batteries)	



***UNIVERSAL TESTING MACHINE
METAL IMPACT TESTER
MELT FLOW INDEXER
HDT AND VICAT TESTER
PLASTIC CHARPY IZOD IMPACT TESTER
IMPACT TESTING MACHINE LOW-
TEMPERATURE METER
BROACHING MACHINE
IMPACT SPECIMEN NOTCH PROJECTOR
IMPACT SPECIMEN V-NOTCHER
TABER ABRASION TESTER
DIN ABRASION TESTER
SALT SPRAY CHAMBER
HIGH&LOW TEMPERATURE CHAMBER***



COMPUTERIZED ELECTRONIC UNIVERSAL TESTING MACHINE UTM-10KN

TECHNICAL SPECIFICATION

- Max. Load 10 KN
- Structure Four-column Floor Model (Upper Is Compression And Lower Is Tensile OR Upper Is Tensile And Lower Is Compression)
- Control Method Computer Automatic Control
- Load Accuracy 1 Class 0.5 Class
- Load Range 2%~100% FS
- (0.20KN~10KN) 0.2%~100% FS
- (0.02KN~10KN)
- Sensor High Precision Load Sensor,
- Resolution 1/300000
- Measuring Range Of Deformation 2%~100%
- Accuracy Indication Of Deformation $\leq \pm 1\%$
- Disp. Indicating Relative Error $\leq \pm 1\%$
- Displacement Resolution 0.04um
- Adjusting Range Of Control Rate Of Load 0.005~5%FS/S
- Control Precision Of Control Rate Of Load When rate < 0.05% FS/s, the precision is within $\pm 2\%$ of setting value; When rate $\geq 0.005\%$ FS/s, the precision is within $\pm 1\%$ of setting value.
- Adjustment Scope Of Deformation Rate 0.005~5%FN/S
- Accuracy Of Deformation Rate Test Speed<0.05%FN/s, within the $\pm 2\%$ of the preset value, Test Speed $\geq 0.05\%$ FN/s, within the $\pm 0.5\%$ of the preset value.
- Adjusting Range Of Displacement Rate 0.05~1000mm/min (Can be customized)
- Control Precision Of Displacement Rate When rate < 0.5mm/min, within $\pm 1\%$ of setting value; When rate $\geq 0.5\text{mm/min}$, within $\pm 0.5\%$ of setting value.
- Scope Of The Consistent Load Deformation And Displacement Control 0.5%~100%FS
- Accuracy Of The Consistent Load Deformation And Displacement Control Preset value $\geq 10\%$ FN, within the $\pm 0.1\%$ of preset value;
- Preset value<10%FN, within the $\pm 1\%$ of preset value.
- Tensile Space 800mm (Can be customized)
- Compression Space 800mm (Can be customized)
- Effective Spacing 400mm (Can be customized)
- Load Cell Configuration One PC (Max Load).
- More load cells can be added according to customer requirement.
- Extend Configuration Large deformation extensometer,
- High or low temperature test chamber, High temperature oven.
- Power Supply AC 220V $\pm 10\%$, 50Hz (Can be customized)
- Grips Wedge Type, Plate Type And Other Grips As Customers' Demand
- Dimension 850*585*1740 mm
- Weight 370 KG



STANDARD DELIVERY

- High strength main unit 1 set
- High precision arc synchronous deceleration system 1pc
- High precision ball screw 2 pcs
- AC Servo Motor and Control System 1 pc
- WDW-600E: Panasonic Motor 1 pc
- High Precision Load Sensor 1 pc
- Sensor 1 pc
- Tensile fixture Round: $\Phi 4-9\text{mm}$, Flat: 0-7mm 1 pc
- Round: $\Phi 9-14\text{mm}$, $\Phi 14-20\text{mm}$ (Optional); Flat: 7-14mm, 14-20mm(Optional)
- Compression fixture 1 pc
- Bending fixture(Optional) 1 pc
- Large deformation extensometer(Optional) 1 pc
- Max deformation:800mm, Gauge Length:10m
- HS-max test software 1 pc
- Lenovo computer 1 set
- HP printer 1 set

COMPUTERIZED ELECTRONIC UNIVERSAL TESTING MACHINE UTM-50KN

TECHNICAL SPECIFICATION

- Max. Load: 50 KN
- Structure: Four-column Floor Model (Upper Is Tensile And Lower Is Compression)
- Control Method: Computer Automatic Control
- Load Accuracy: 1 Class
- Load Range: 2%~100% FS (1KN~50KN)
- Motor: AC Servo Motor
- Sensor: High Precision Load Sensor,
- Resolution: 1/300000
- Measuring Range Of Deformation: 2%~100%
- Accuracy Indication Of Deformation: $\leq \pm 1\%$
- Disp. Indicating Relative Error: $\leq \pm 1\%$
- Displacement Resolution: 0.04um
- Adjusting Range Of Control Rate Of Load: 0.005~5%FS/S
- Control Precision Of Control Rate Of Load: When rate $< 0.05\%$ FS/s, the precision is within $\pm 2\%$ of setting value;
- When rate $\geq 0.005\%$ FS/s, the precision is within $\pm 1\%$ of setting value.
- Adjustment Scope Of Deformation Rate: 0.005~5%FN/S
- Accuracy Of Deformation Rate: Test Speed $< 0.05\%$ FN/s, within the $\pm 2\%$ of the preset value,
- Test Speed $\geq 0.05\%$ FN/s, within the $\pm 0.5\%$ of the preset value.
- Adjusting Range Of Displacement Rate : 0.05~500mm/min (Can be customized)
- Control Precision Of Displacement Rate: When rate $< 0.5\text{mm}/\text{min}$, within $\pm 1\%$ of setting value;
- When rate $\geq 0.5\text{mm}/\text{min}$, within $\pm 0.5\%$ of setting value.
- Scope Of The Consistent Load Deformation And Displacement Control: 0.5%~100%FS
- Accuracy Of The Consistent Load Deformation And Displacement Control Preset value: $\geq 10\%$ FN, within the $\pm 0.1\%$ of preset value;
- Preset value $< 10\%$ FN, within the $\pm 1\%$ of preset value.
- Tensile Space: 700mm (Can be customized)
- Compression Space: 700mm (Can be customized)
- Effective Spacing: 500mm (Can be customized)
- Load Cell Configuration: One PC (Max Load). More load cells can be added according to customer requirement.
- Extend Configuration: Large deformation extensometer, High or low temperature test chamber, High temperature oven.
- Power Supply: AC 220V $\pm 10\%$, 50Hz (Can be customized)
- Grips: Wedge Type, Plate Type And Other Grips As Customers' Demand
- Dimension: 850*480*1865mm
- Weight: 460 KG



STANDARD DELIVERY

- Main body unit: 1 set
- High precision arc synchronous deceleration system: 1pc
- High precision ball screw: 2 pcs
- AC Servo Motor and Control System: 1pc
- High Precision Load Sensor: 1 pc
- Tensile fixture: Round: $\Phi 4-9\text{mm}$, Flat: 0-7mm: 1pc
- Round: $\Phi 9-14\text{mm}$, $\Phi 14-20\text{mm}$ (Optional); Flat: 7-14mm, 14-20mm (Optional)
- Compression fixture: 1pc
- Bending fixture (Optional) : 1pc
- Large deformation extensometer (Optional): 1pc
- Max deformation: 800mm, Gauge Length: 10mm
- HS-max test software: 1pc
- Lenovo computer: 1 set
- HP printer: 1 set

COMPUTERIZED ELECTRONIC UNIVERSAL TESTING MACHINE UTM-100KN

TECHNICAL SPECIFICATION

- Max. Load: 100 KN
- Structure Four-column Floor Model (Upper Is Tensile And Lower Is Compression)
- Control Method: Computer Automatic Control
- Load Accuracy: 1 Class
- Load Range: 2%~100% FS (2KN~100KN)
- Motor: AC Servo Motor
- Sensor: High Precision Load Sensor,
- Resolution: 1/300000
- Measuring Range Of Deformation: 2%~100%
- Accuracy Indication Of Deformation: $\leq \pm 0.5\%$
- Disp. Indicating Relative Error: $\leq \pm 1\%$
- Displacement Resolution: 0.04um
- Adjusting Range Of Control Rate Of Load: 0.005~5%FS/S
- Control Precision Of Control Rate Of Load: When rate < 0.05% FS/s, the precision is within $\pm 2\%$ of setting value;
- When rate $\geq 0.005\%$ FS/s, the precision is within $\pm 1\%$ of setting value.
- Adjustment Scope Of Deformation Rate: 0.005~5%FN/S
- Accuracy Of Deformation Rate: Test Speed < 0.05%FN/s, within the $\pm 2\%$ of the preset value,
- Test Speed $\geq 0.05\%$ FN/s, within the $\pm 0.5\%$ of the preset value.
- Adjusting Range Of Displacement Rate: 0.05~500mm/min (Can be customized)
- Control Precision Of Displacement Rate: When rate < 0.5mm/min, within $\pm 1\%$ of setting value;
- When rate $\geq 0.5\text{mm/min}$, within $\pm 0.5\%$ of setting value.
- Scope Of The Consistent Load Deformation And Displacement Control: 0.5%~100%FS
- Accuracy Of The Consistent Load Deformation And Displacement Control: Preset value $\geq 10\%$ FN, within the $\pm 0.1\%$ of preset value;
- Preset value < 10%FN, within the $\pm 1\%$ of preset value.
- Tensile Space: 700mm (Can be customized)
- Compression Space: 700mm (Can be customized)
- Effective Spacing: 550mm (Can be customized)
- Load Cell Configuration: One PC (Max Load). More load cells can be added according to customer requirement.
- Extend Configuration: Large deformation extensometer, High or low temperature test chamber, High temperature oven.
- Power Supply: AC 220V $\pm 10\%$, 50Hz (Can be customized)
- Grips: Manual Grip / (Optional: Hydraulic Automatic Grip)
- Dimension: 950*560*2000 mm
- Weight: 680 KG



STANDARD DELIVERY

- Main body unit: 1 set
- High precision arc synchronous deceleration system: 1pc
- High precision ball screw: 2 pcs
- AC Servo Motor and Control System: 1pc
- High Precision Load Sensor: 1 pc
- Tensile fixture: Round: $\Phi 4-9\text{mm}$, Flat: 0-7mm: 1pc
- Compression fixture: 1pc
- Gauge of Extensometer: 50mm, Deformation: 10mm
- HS-max test software: 1pc
- Lenovo computer: 1 set
- HP printer: 1 set

COMPUTERIZED ELECTRONIC UNIVERSAL TESTING MACHINE UTM-200KN

TECHNICAL SPECIFICATION

- Max. Load:200 KN
- Structure: Four-column Floor Model (Upper Is Compression And Lower Is Tensile)
- Control Method: Computer Automatic Control
- Load Accuracy: 1 Class
- Load Range: 2%~100% FS (4KN~200KN)
- Motor: AC Servo Motor
- Sensor: High Precision Load Sensor,
- Resolution: 1/300000
- Measuring Range Of Deformation: 2%~100%
- Accuracy Indication Of Deformation: $\leq \pm 0.5\%$
- Disp. Indicating Relative Error: $\leq \pm 1\%$
- Displacement Resolution: 0.04um
- Adjusting Range Of Control Rate Of Load: 0.005~5%FS/S
- Control Precision Of Control Rate Of Load: When rate < 0.05% FS/s, the precision is within $\pm 2\%$ of setting value;
- When rate: $\geq 0.005\%$ FS/s, the precision is within $\pm 1\%$ of setting value.
- Adjustment Scope Of Deformation Rate: 0.005~5%FN/S
- Accuracy Of Deformation Rate: Test Speed<0.05%FN/s, within the $\pm 2\%$ of the preset value,
- Test Speed $\geq 0.05\%$ FN/s, within the $\pm 0.5\%$ of the preset value.
- Adjusting Range Of Displacement Rate: 0.05~200mm/min (Can be customized)
- Control Precision Of
- Displacement Rate: When rate < 0.5mm/min, within $\pm 1\%$ of setting value;
- When rate $\geq 0.5\text{mm/min}$, within $\pm 0.5\%$ of setting value.
- Scope Of The Consistent Load Deformation And Displacement Control: 0.5%~100%FS
- Accuracy Of The Consistent Load Deformation And Displacement Control: Preset value $\geq 10\%$ FN, within the $\pm 0.1\%$ of preset value;
- Preset value<10%FN, within the $\pm 1\%$ of preset value.
- Tensile Space: 550mm (Can be customized)
- Compression Space: 550mm (Can be customized)
- Effective Spacing: 600mm (Can be customized)
- Load Cell Configuration: One PC (Max Load). More load cells can be added according to customer requirement.
- Extend Configuration: Large deformation extensometer, High or low temperature test chamber, High temperature oven.
- Power Supply: AC220V $\pm 10\%$,50Hz (Can be customized)
- Grips: Manual Grip / (Optional: Hydraulic Automatic Grip)
- Dimension: 1108*798*2342 mm
- Weight: 1700 KG



STANDARD DELIVERY

- Main body unit:1 set
- High precision arc synchronous deceleration system:1pc
- High precision ball screw:2 pcs
- AC Servo Motor and Control System:1pc
- High Precision Load Sensor:1 pc
- Tensile fixture:1pc
- Round: $\Phi 4-10\text{mm}$, $\Phi 10-16\text{mm}$, $\Phi 16-25\text{mm}$, Flat: 0-9mm, 9-18mm, 18-27mm
- Compression fixture: 1pc
- Gauge of Extensometer: 50mm, Deformation: 10mm
- HS-max test software:1pc
- Lenovo computer:1 set
- HP printer:1 set

COMPUTERIZED ELECTRONIC UNIVERSAL TESTING MACHINE UTM-300KN

TECHNICAL SPECIFICATION

- Maximum Test load 300kN
- Measuring range 0-300kN
- Indicating value accuracy of measured load better than $\pm 1\%$ of indicating value
- Measuring load can be shifted or not
Shift : 0-300kN 、 0-150kN、 0-60kN、 0-30kN
Not shift
- Load resolution
shift 300000 yards
Non-shift 300000 yards (only one resolutions in full scale, non-shifts between inside and outside, no conflicts existing for conversion of travel)
- Test speed 0.01-250mm/min
- Speed accuracy 0.1mm/min
- Deformation accuracy better than $\pm 1\%$ of indicating value
- Displacement accuracy better than $\pm 1\%$ of indicating value
- Effective width of test 550mm
- Maximum distance between grips 500mm
- Maximum distance between platens 510mm
- Overload protection with multiple protection of overload, travel position limit
- Dimension of load frame 779mm×1270mm×2400mm
- Power supply AC 3 phases 4 wires 380V
- Power 4000W
- Weight 2000kg



STANDARD DELIVERY

- Load frame 1 set
- Tensile fixture 1 set (Flat grip 2 pair; round grip 2 pair)
- Compression fixture 1 set
- 3 point bending fixture 1 set
- High precision ball lead screw 2 pcs
- High precision column type load cell 1 pc
- Servo system (Servo motor and servo driver) Japan Panasonic
- Extensometer 1 pc (Gauge length 50mm、 deformation 25mm)
- Reducer Taiwan Luosheng
- Hydraulic clamping oil source system 1 set
- Other components(Standard pieces, connection device, gearing device) 1 set
- Measuring & control system 1 set
- Control system 1 set
- Manual, automatic control hardware 1 set
- Auto control software package 1 set
- Lenovo computer 1 set (Model M4600 , 17" CRT) , Configuration :
PDC E21800/1G DDRII/SATA2 160G(7200 R)/SATA DVD/Sound card/Integrated KiloMega network card /Integrated high performance video card /Keyboard/USB Photoelectrical mouse/XP HOME /front built 2 USB2.0/Sky application 08A (for XP) /180W power supply/guarantee for 3 years
- HP Deskjet A4 Jet printer 1 set
- Connected cable 1 set
- Data process software package 1 set (running in Windows 98, windows 2000 or windows XP)
- Computer desk 1pc

COMPUTERIZED ELECTRONIC UNIVERSAL TESTING MACHINE

APPLICATION

Applied Standards:

Load meets or exceeds the following standards: ASTM E4, ISO7500-1, EN 10002-2, BS1610, DIN 51221.

Strain measurement meets or exceeds the following standards: ASTM E83, ISO 9513, BS 3846, EN 10002-4.

Single Column Type:

Features:

Strong frame is designed to assure high stiffness.

Movement of the movable crosshead is obtained by pre-loaded ball screws to eliminate the backlash.

Working area is easy to reach.

Servo control system and high precision photoelectric encoder ensure the high accuracy of testing machine.

TECHNICAL SPECIFICATION

Model	UTS-0.5	UTS-1	UTS-2	UTS-5
Max. load (kN)	0.5	1	2	5
Load accuracy (%)	≤±0.5			
Deformation accuracy (%)	≤±0.5			
Displacement resolution (mm)	0.001			
Speed range (mm/min)	0.005-500/0.001-1000(optional)			
Effective tensile test space (mm)	910			
Effective compression space (mm)	850			
Total crosshead travel (mm)	1065			
Size of load frame (mm)	384×550×1415			
Weight (kg)	55			



TECHNICAL SPECIFICATION

Model No.	UTL-0.5KN	UTL-1 KN	UTL-2KN	UTL-5KN
Max Load KN	0.5kN	1kN	2kN	5kN
Load accuracy	≤±0.5%			
Deformation accuracy	≤±0.5%			
Displacement resolution	0.01mm(encoder resolution:2000 pulse/turn)			
Testing speed mm/min	0.005-500			
Spacing of grip to grip mm	≥580mm			
Total crosshead travel mm	800			
Motor	300W		400W	
Height mm	1436			
Width mm	386			
Depth mm	550			
Gross Weight kg	110			
Grips	Wedge type, plate type and other grips as consumer's demand.			
Power supply	1 phase 220V/50Hz or 1 phase 110V/60Hz			



COMPUTER CONTROL SERVO HYDRAULIC UNIVERSAL TESTING MACHINE



WAW-1000D

STANDARD DELIVERY

- Pulling, pressing jaws: 1 pair
- Round: $\Phi 10$ - $\Phi 20$ mm, $\Phi 20$ - $\Phi 32$ mm (Optional: $\Phi 4$ - $\Phi 10$ mm); Straight: 0-15mm (Optional: 15-30mm)
- Compression fixture ($\Phi 160$ mm): 1 pair
- Special bending fixture: 1 pair
- Special cutting fixture (optional) : 1 pair
- Hydraulic oil control cabinet:1
- Gear pump: 1 set
- "WNM" Engine:1
- Hydraulic valve for hydraulic grips:2
- Hydraulic clamps device:1
- One-way valve:1
- Fine oil filter:1
- Hydraulic oil valve:1
- Closed type hydraulic oil return valve:1
- Harp oil supply control cabinet:1
- Measurement and control system:1
- Sensitive sensor:1
- YSJ50 / 10 high precision electronic extensometer:1
- Lenovo computer:1
- Printer:1

TECHNICAL SPECIFICATION

Model No.	WAW-200/300D	WAW-500/600D	WAW-1000D	LAW-1000
Host structure	6 column type (4 column 2 screw)			
Max test force(kN)	200(300)	500(600)	1000	1000
accuracy level	1 class			
Test force accurate measurement range	2% ~ 100% FS			
Displacement resolution	0.01mm			
Displacement measurement relative error	$\leq \pm 0.5\%$			
Deformation (extensometer) measurement range	1% ~ 100% FS			
Deformation indication relative error	$\leq \pm 0.5\%$			
Piston moving speed range mm/min	0~240	0~120	0~80	0~50
Column spacing(mm)	490	500	560	580
Stretch jaw maximum spacing(mm)	780	900	950	1350
Compressed maximum spacing(mm)	550	650	700	1000
Round sample clamping range(mm)	$\phi 10 \sim \phi 32$	$\phi 13 \sim \phi 40$	$\phi 13 \sim \phi 45$	/
Flat specimen clamping thickness(mm)	2~15	2~15	4~20	/
1*7 steel wire holding range (mm)	/	/	/	$\Phi 9.5 \sim \Phi 21.6$
Upper and lower platen size(mm)	$\phi 160$			
Lower jaw movement speed	240mm/min			
Piston stroke(mm)	200			250
Mainframe dimensions(mm)	745×685×1905	760×690×2055	830×720×2155	860×740×2575
Control cabinet dimensions (mm)	650×650×1600			
Total power (kW) (three-phase five-wire system)	3/AC380V/50Hz			

COMPUTER CONTROL ELECTRO-HYDRAULIC SERVO UNIVERSAL TESTING MACHINE UTH-300KN

TECHNICAL SPECIFICATION

- Maximum test load 300kN
- Accuracy grade 1 Class
- Measuring range 1%-100%
- Load resolution 30000 yard
- Indicating value of load measuring better than $\pm 1\%$ of indicating value
- displacement resolution : $5\mu\text{m}$
- Displacement accuracy : better than $\pm 1\%$ of indicating value
- Deformation resolution $1\mu\text{m}$
- Deformation accuracy : better than $\pm 1\%$ of indicating value
- Effective space between columns 435mm
- Stress speed range : 1—60 (N/mm²) S-1
- Strain speed range : 0.00025/S—0.0025/S
- Maximum distance between grips 690mm
- Maximum distance between platens 570mm
- Platen size $\phi 128 \times 30$
- Connecting plate size $\phi 128 \times 60$
- Distance between bending rollers 30-480mm
- Bending rod size M16 \times 680
- Clamping diameter of round specimen 9-32mm
- Clamping thickness of flat specimen 0~15mm
- Piston travel 250mm
- Power 1.7kW
- Power supply AC 380V \pm 10%
- Dimension of load frame 120mm \times 560mm \times 1940mm
- Dimension of oil source 550mm \times 550mm \times 1410mm
- Weight 1222kg



STANDARD DELIVERY

- Load frame 1set
- Measuring & control system 1 set
- Oil source 1 set
- High precision column type load cell 1 piece (load measuring directly, not be affected from friction of oil cylinder and external influence)
- Build-in Displacement transducer 1 piece
- Electro-hydraulic servo valve 1 set (Italy ATOS E-RI-TE-01H 40/DH04SA)
- Control system 1 set
- Extensometer (gauge length 25mm、50mm、100mm to choose from)
- Lenovo computer 1 set (Model M4600 , 17" CRT) , Configuration :
- PDC E21800/1G DDRII/SATA2 160G(7200 R)/SATA DVD/Sound card/Integrated KiloMega network card /Integrated high performance video card /Keyboard/USB Photoelectrical mouse/XP HOME /front built 2 USB2.0/Sky application 08A (for XP) /180W power supply/guarantee for 3 years
- HP Deskjet A4 Jet printer 1 set
- Tensile Fixture 1 set (Round grip $\Phi 9-\Phi 20$, $\Phi 20-\Phi 32$ one for each , Flat grip 0-15 1 pair)
- Compression fixture 1 set (Platen $\Phi 128$)
- Bending fixture 1 set (standard $\Phi 30$ cooling bending & compression head)
- Connected cable 1 set
- Data process software package 1 set (running in Windows 98, windows 2000 or windows XP)
- Computer desk 1PC

COMPUTER CONTROL ELECTRO-HYDRAULIC SERVO UNIVERSAL TESTING MACHINE UTH-3000KN

TECHNICAL SPECIFICATION

- Maximum test load 3000kN
- Accuracy grade 1 Class
- Measuring range 1%-100%
- Load resolution 30000 yard
- Indicating value of load measuring better than $\pm 1\%$ of indicating value
- Displacement resolution : 5 μ m
- Displacement accuracy : better than $\pm 1\%$ of indicating value
- Deformation resolution 1 μ m
- Deformation accuracy : better than $\pm 1\%$ of indicating value
- Effective space between columns 860mm
- Stress speed range : 1—60 (N/mm²) S-1
- Strain speed range : 0.00025/S—0.0025/S
- Maximum distance between grips 1450mm
- Maximum distance between platens 1250mm
- Platen size $\phi 200 \times 60$
- Connecting plate size $\phi 148 \times 60$
- Distance between bending rollers 50-900mm
- Clamping diameter of round specimen 20-80mm
- Clamping thickness of flat specimen 10-40mm
- Piston travel 250mm
- Power 8.5kW
- Power supply AC 380V $\pm 10\%$
- Dimension of load frame 1340mm \times 1000mm \times 3860mm
- Dimension of oil source 550mm \times 750mm \times 1410mm
- Weight 12000kg



STANDARD DELIVERY

- Load frame 1set
- Measuring & control system 1 set
- Oil source 1 set
- High precision column type load cell 1 piece (load measuring directly, not be affected from friction of oil cylinder and external influence)
- Build-in Displacement transducer 1 piece
- Electro-hydraulic servo valve 1 set (Italy ATOS E-RI-TE-01H 40/DH04SA)
- Control system 1 set
- Extensometer (gauge length 25mm、50mm、100mm to choose from)
- Lenovo computer 1 set (Model M4600 , 17" CRT) , Configuration :
- PDC E21800/1G DDRII/SATA2 160G(7200 R)/SATA DVD/Sound card/Integrated KiloMega network card /Integrated high performance video card /Keyboard/USB Photoelectrical mouse/XP HOME /front built 2 USB2.0/Sky application 08A (for XP) /180W power supply/guarantee for 3 years
- HP Deskjet A4 Jet printer 1 set
- Tensile Fixture 1 set (Round grip $\Phi 20$ - $\Phi 40$, $\Phi 40$ - $\Phi 60$, $\Phi 60$ - $\Phi 80$ one for each , Flat grip 10-40 1 pair)
- Compression fixture 1 set (Platen $\Phi 300$)
- Bending fixture 1 set (standard $\Phi 80$ cooling bending & compression head)
- Connected cable 1 set
- Data process software package 1 set (running in Windows 98, windows 2000 or windows XP, standard GB/T228-7 and GB/T228-2002 can be transferable)
- Computer desk 1PC

ALL GRIPS FOR UNIVERSAL TESTING MACHINES

WEDGE GRIP

Model No : GR-F010

Description

- Wedge Grip is used to perform tensile test. It is suitable for metal sheet, metal wire, plastic and high tension material. It conforms to ASTM D412.
- Industry: metal, plastic

PLANE GRIP

Model No : GR-E060

Description

- Plane Grips are used to perform tensile test. It is suitable for thin wire, film and flat sheet such as paper.
- Industry: textile, plastic and paper.

TEXTILE GRIP

Model No : GR-E020

Description

- Textile Grip is used to perform tensile test. It is suitable for rope, textile webbing and plastic sheet specimen test.
- Industry: textile, plastic

3 POINT BEND/FLEXURE

Model No : GR-C010

Description

- 3 point bend/flexure is used to perform bending test. It is suitable for metal, wooden material, glass, and hard plastic specimen test. It conforms to ASTM D179.
- Industry: metal, wood, glass, plastic

We produce more grips, also can customize the grips according to the drawing.



METAL CHARPY & IZOD PENDULUM IMPACT TESTER IMP-300 C/I



APPLICATION

IMP-300I/C is with 300J and 150J pendulums for Charpy, 170J and 85J pendulums for IZOD, this machine can examine the impact energies at high precise.

Standards: In accordance with ASTM E23

FEATURES

- High stiffness load frame & base to guarantee the stability.
- Refined swing rod with high stiffness prevented the shaking of pendulum after test.
- High precise photoelectric encoder to measure the angle. The whole system adopts lot of mature Optoelectronic Technology and Optoelectronic seclusion technology to improve the measuring precise and stability

TECHNICAL SPECIFICATION

Specification	CHARPY		IZOD	
I. Impact energy				
Max. impact energy	300J	150J	170J	85J
II. Dial range & division				
Measuring range	0-300J	0-150J	0-170J	0-85J
Min. resolution of impact energy	2J	1J	2J	1J
III. Pendulum moment				
Impact energy	300J	150J	170J	85J
Pendulum moment	160.7695N·m	80.3848N·m	91.1027N·m	45.5514N·m
IV. Rising angle				
Rising angle	150°	150°	150°	150°
V. Power & Size				
Power	AC 380V, 50Hz, 3 phases 4 lines, 180W			
Size of specimen	10 x 10 x 55 mm (U,V 2mm Notches)			

COMPUTERIZED IMPACT TESTING MACHINE IMP-300P C/I



APPLICATION

This product is a ideal equipment for quality control center, engineering areas, college and research institute. as well as other areas concerning material impact testing.

IMP-300P I/C is a Computer Controlled IZOD/CHARPY Integrated Impact Testing Machine to determine the energy absorbed infracturing a test piece at high velocity. It can not only examine the energy, return zero, loss of energy, swing circle, but also can display, store, and print the testing result through computer. You can control it by computer software or control box. With 300J and 150J pendulums for Charpy, 170J and 85J pendulums for IZOD, this machine can examine the impact energies at high precise.

Standards: In accordance with ASTM E23

FEATURES

- High stiffness load frame & base to guarantee the stability.
- Refined swing rod with high stiffness prevented the shaking of pendulum after test.
- High precise photoelectric encoder to measure the angle. The whole system adopts lot of mature Optoelectronic Technology and Optoelectronic seclusion technology to improve the measuring precise and stability.
- The machine can not only be operated by software, but also by control box. Dual control way improved the flexibility of machine operation to improve the working efficiency.
- The software can not only examine the energy, return zero, loss of energy, swing circle, but also can display, store, print the testing result through computer

TECHNICAL SPECIFICATION

Specification	CHARPY		IZOD	
I. Impact energy				
Max. impact energy	300J	150J	170J	85J
II. Dial range & division				
Measuring range	0-300J	0-150J	0-170J	0-85J
Min. resolution of impact energy	2J	1J	2J	1J
III. Pendulum moment				
Impact energy	300J	150J	170J	85J
Pendulum moment	160.7695N·m	80.3848N·m	91.1027N·m	45.5514N·m
IV. Rising angle				
Rising angle	150°	150°	150°	150°
V. Power & Size				
Power	AC 380V, 50Hz, 3 phases 4 lines, 180W			
Size of specimen	10 x 10 x 55 mm (U,V 2mm Notches)			

SEMI-AUTOMATIC METAL CHARPY PENDULUM IMPACT TESTER

APPLICATION

CH/IMP-300/500 Charpy (simple-beam) Impact Tester mainly used to determine the anti-impact capability of ferrous metal materials with high toughness, especially for steel and iron material and their alloy, under dynamic load impacting.

This tester can be operated semi-automatically. The pendulum of the machine can be raised or released automatically by button pressed. They are essential testing instruments for quality testing section, university and college, research institution and industrial and mining enterprise. The machine can do the test according to ASTM E23 and ISO 148 or other equal standards.

*Two Pendulums (big and small) and two scale reading for each testing machine which enlarge the test range of energy.

*Pendulum rising, impact, free releasing is realized as automatically by control remote.

*Safety pin guarantees the impact action.

*Protection shell avoids the hit and break sample splashing.

*Sample and support are easy centering.

*Electromagnetic clutch hold the raising pendulum.

Power sudden off still in safety.



TECHNICAL SPECIFICATION

Model No.	CH/IMP-300	CH/IMP-500
Impact energy	150J; 300J	250J; 500J
Pendulum moment	80.3848/160.7695	133.9746/267.9492
Impact velocity	5.2m/s	5.4m/s
Raising angle	150°	150°
Striker tip angle	30°	30°
Anvil taper angle	11°	11°
Pendulum Pole length	750 mm	800 mm
Standard Sample span	40mm	40mm
Round angle radius of Grips	R1-1.5mm	R1-1.5mm
Round angle radius of striking edge	R2-2.5mm	R2-2.5mm
Optional striking edge by order	R8mm	R8mm
Power supply	3 Phase, 380V, 50Hz/60Hz	
Dimension	2100× 650× 1900 mm	
Weight(Kg)	500kg	750kg

SEMI-AUTOMATIC METAL CHARPY PENDULUM IMPACT TESTER

FEATURES

- Two Pendulums (big and small) and two scale reading for each testing machine which enlarge the test range of energy.
- Pendulum rising, impact, free releasing is realized as automatically by control remote and LCD controller.
- Safety pin guaranties the impact action.
- Fully PLC control and I/O data processing.
- Test data store and printing function.
- Dial gauge and digital out put synchronous test result.
- Protection shell avoids the hit and break sample splashing.
- Sample and support are easy centering.
- Electromagnetic clutch hold the rasing pendulum. Power sudden off still in safety.
- Easy installation and operation.



STANDARD DELIVERY

- Operating Instrument Fixator: 1
- Pendulum(300J/150J): 2
- Span Specimen Plate (L=40mm): 1
- Specimen Centering Plate (L=40mm)(U, V): 1
- Stripping Attachment: 1
- Internal Hexagonal Wrench (S=12mm): 1
- Anchor Bolts (M16*300mm): 4
- Impact Testing Safety Guard Net: 1
- Measurement And Control System: 1
- LCD Operation Instrument: 1
- High-precision Optical Encoder: 1

TECHNICAL SPECIFICATION

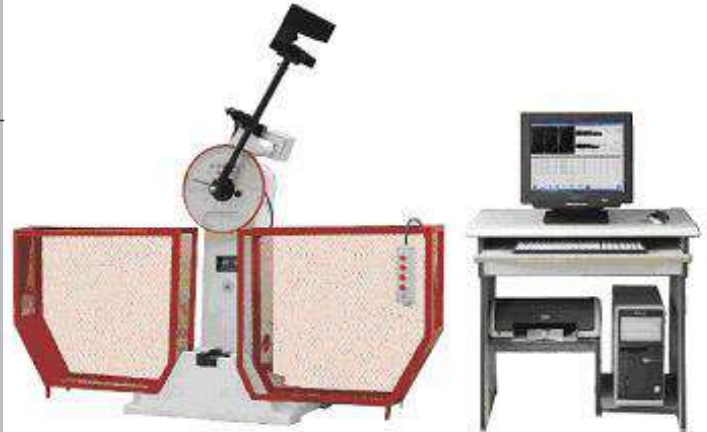
Model No.	CH/IMP-300TL	CH/IMP-500TL	CH/IMP-750TL
Impact energy	150J; 300J	250J;500J	750J
Impact velocity	5.2m/s	5.4m/s	5.24m/s
Raising angle	150°	150°	150°
Striker tip angle	30°	30°	30°
Anvil taper angle	11°	11°	11°
Pendulum Pole length	750 mm	800 mm	750
Standard Sample span	40mm	40mm	40mm
Round angle radius of grips	R1-1.5mm	R1-1.5mm	R1-1.5mm
Round angle radius of striking edge	R2-2.5mm	R2-2.5mm	R2-2.5mm
Optional striking edge by order	R8mm	R8mm	R8mm
Power supply	3 Phase, ~380V/220V, 50Hz/60Hz		
Dimension	2100×650×1900 mm		2450 × 1200 × 2455mm
Weight(Kg)	600kg	900kg	3000kg

COMPUTER CONTROL SEMI-AUTOMATIC METAL CHARPY PENDULUM IMPACT TESTER

APPLICATION

Computer Control Semi-automatic Charpy Impact Testing Machine are mainly used to determine the anti-impact capability of metal materials under dynamic load.

Carry out the functions of zero clearing and automatic return, capturing the value of lost impact energy and pendulum cycle by means of setting up with computer program, and the results can be monitored, stored and printed out. Control box or computer program control is alternative operating method. Computer Control Semi-automatic Charpy Impact Testing Machine are adopted by many institutes and high-tech enterprises.

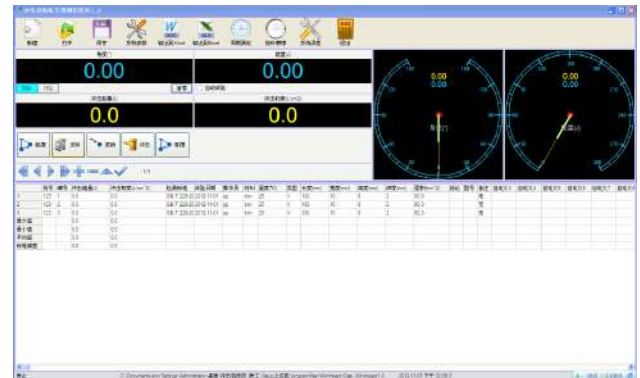


Standards ASTM E23, ISO148-2006

FEATURES

- Fully automatic, sample feeding, auto position the sample; high efficiency;
- Pendulum rising, impact, sample feeding, position, free releasing is realized automatically by easy PC mouse click;
- Safety pin guarantees the impact action, standard protection shell to avoid any accident.
- Pendulum will automatically rising and ready for next impact action after specimen breakout.
- With two pendulums (big and small), PC software to display the energy loss, impact tenacity, rising angle, test average value etc. test data and result, also the curve display available; with calculation and report printing function. The dial scale can show test results too.

SOFTWARE



Model No.	CH / IMP-300C	CH / IMP-500C	CH / IMP-800C
Impact energy (J)	150 300	250 500	500 800
Impact velocity (m/s)	5.2	5.4	5.9
Raised angle	150°		
Standard span (mm)	40		
Round angle of jaws (mm)	R1-1.5		
Round angle of striking edge (mm)	R2-2.5		
Size of specimen (mm)	10 x 10 x 55		
Power supply	3phs, 380V, 50Hz or 220V, 60Hz		
Dimensions (mm)	2124 x 600 x 1340	2144 x 736 x 1390	2450 x 1200 x 2455
Net Weight (kg)	450	650	2300
Display			

MELT FLOW INDEXER MFI-400 MFI-410 MFI-420 MFI-430

APPLICATION

Melt flow indexer is used to determine the melt mass-flow (MFR)、the melt volume-flow rate (MFV) and the melt density of thermo resin, it is not only fit for the engineering plastics of polycarbonate、nylon and fluorine plastics, etc, whose melt temperature are higher, but also fit for the plastics tests of polyethylene、polystyrene、polypropylene、ABS resin and polyformaldehyde resin etc, whose melt temperature are lower, it is widely applied to the fields of plastics materials、product petrochemical, etc, also the colleges、scientific research unit and commodity inspection department.

Melt flow indexer adopts PID temperature control, digital display, it can cut material manual or auto., has two measuring method, MFR and MVR, with the fast load function and print out of the test report. Our Melt flow indexer meets the international standards: ISO 1133, ASTM D 1238, ASTM D 3364, DIN 53735, UNI-5640.

FEATURES

- Measuring range: 0.01-600.00 g/10min(MFR)
0.01-600.00 cm³/10min(MVR)
0.001-9.999 g/cm (melt density)
- Temperature range: 50-400°C
- Temperature precision: ±0.5°C resolution: 0.1°C
- Material canister inside diameter 9.55±0.025mm length:160mm
- Piston diameter 9.457±0.01mm mass:106g
- Mould inside diameter 2.095mm length: 8±0.025mm
- Load: full load
- Base weight: 0.325Kg.
- Weights: 0.875Kg,1.290Kg,1.835Kg,3.475Kg,4.675Kg,5.000Kg,5.000Kg one each (may freewill combination)
- Accuracy: 0.5%
- Cleaning accessories: clear material pole
- Calibration accessories: water level bubble
Measuring method: MFR MVR/ DENSITY
- Supply Power: 220V±10% 50Hz Heat up power: about 550W
- Outline size: (length*width*height) 600*400*500 (unit: mm)
- Net weight: 85Kg gross weight: 135Kg

TECHNICAL SPECIFICATION

Model No.	Temperature control	Cutting material	MFR/MVR	Measure	Load Unload	Output
MFI-400	Intelligence PID	manual	MFR/MVR	Auto.	manual	Digital display
MFI-410	Intelligence PID	manual /auto.	MFR/MVR melt density	auto.	manual	Digital display Print report

MFI-420	Intelligence PID	manual /auto.	MFR/MVR melt density	auto.	Fast speed	Digital display
MFI-430	Intelligence PID	manual /auto.	MFR/MVR melt density	auto.	Fast speed	Digital display Print report



MFI-400



MFI-410



MFI-420



MFI-430

Mainframe	1pc
Base weight	1pc
Weight	1pc(six sorts seven pieces)
Piston	1pc
Mould	1pc
Oriented sheath	1pc
Water level bubble	1pc
Hopper	1pc
Clear material pole	1pc
Mould bore	1pc
Material check	1pc
English manual	1pc

MELT FLOW INDEXER MFI-530

FEATURES

- High accuracy in sampling, high control speed
- PLC controlled
- Touch LCD display
- Cut the test sample automatically
- Automatic print the testing result
- Curve display in LCD indicator
- Intelligent, modular system which offers flexibility of testing and increased automation
- The main base unit can be configured for either manual or fully automatic testing



Model No.	MFI-530
Temperature Range	Room temperature~400°C
Temperature Accuracy	±0.5°C
Resolution ratio	0.1°C°C
Total eight level 3.187-211.82N	Calibrated loads are to total value stamped on weight with correct piston (0.325kg,1.2kg, 2.16kg, 3.8kg, 5.0kg, 10.00kg, 21.6kg)
Diameter of mould	2.095±0.005mm
Length of mould	8.000±0.025mm
Length of the drum	160mm
working environment	Temperature:10~40°C; Humidity: 30%-80%
Power	220V/50HZ
Net weight	30kg

HDT AND VICAT TESTER HVT-303P

APPLICATION

HVT-303P HDT AND VICAT TESTER is widely used in the production of plastic materials and products and scientific research. It adopts PC controlled technology, measures and controls temperature and deformation automatically, gets test results automatically. In addition, with compact frame, beautiful style, stable quality, it is a high performance testing machine and has functions of discharging lampblack pollution and cooling, so that it is welcomed by customers. HVT-303 HDT AND VICAT TESTER adopts computer control technology, WINDOWS English interface, measure the control temperature and deflection draw test curve real time, calculate the test result automatically and print the test report. This machine is standard type. Equipment conforms to the standards: ISO75, ISO306, ASTM D648,ASTMD 1525, DIN 53460, DIN 53461

TECHNICAL SPECIFICATION

- Heat Deflection Temperature: room temperature to 300
- Vicat Softening Temperature: room temperature to 300
- Test Station: 4 stations
- Heating Speed: 120 /h12±1 /6min50 C /h5±0.5 /6min
- Whole set of English version control software and adapter for Windows system.
- Deflection measuring Range: 1mm
- Maximum Temperature Accuracy: ±0.5
- Temperature error: ±0.5
- Maximum deflection error: 0.01mm
- Heating power: 4KW
- Distortion Range: -0.1mm-1.1mm
- Heating Medium: Methyl silicon oil
- Power supply : 110V/220V 60Hz/50Hz
- Dimension: 1200mmH 550mmW 530mmD
- Sample frame automatic raise and fall.

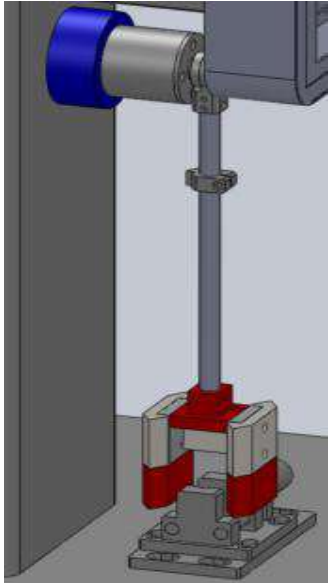


DIGITAL CHARPY IZOD IMPACT TESTER CH/IZ-D5 PLUS

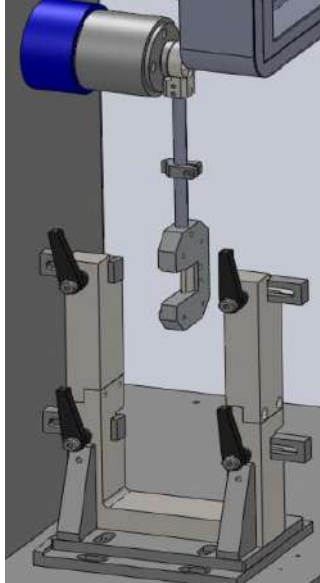
CH/IZ-D5 Digital Charpy & IZOD Impact Tester
 This impact tester is used to test impact toughness of hard plastic, GFPA, glass fiber reinforced plastics, ceramics, cast stone, electrical insulating material and other non-metal material. It's a ideal testing equipments in chemical industry, R & D institution, quality controlling dept.

FEATURES

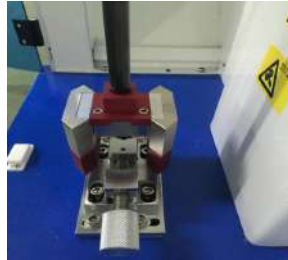
- This impact tester adopts micro-computer technology to manufacture, it's a intelligentize and digital impact tester. It can correct automatically energy loss caused by friction and wind drag. (After sample breakage, It's one-time finished for checking pendulum bob surplus energy and correcting the energy loss.)
- This impact tester is used to electronic display to show the test result, test result output by printer. Reading intuitive, improving the accuracy.
- Adopts rotary encoder grating angular technology, high accuracy, good stability, big measurement ranges. Digital showing impact energy, impact strength, Pre-elevation, lead angle, average value, energy loss...
- It is a combined impact tester, cantilever beam impact test and charpy impact test, designed by ISO 179, and ASTM D256.



Cantilever beam (IZOD)



Free beam (Charpy)



Method	Charpy Impact Test
Impact Speed	2.9 m/s
Impact Energy	1J, 2J, 4J, 5J
Pendulum Torque	Pd1=0.53590Nm Pd2=1.07180Nm Pd4=2.14359Nm Pd5=2.67949Nm
Centre distance	230mm
Pendulum Pre-elevation	150°
Blade fillet radius	R=2±0.5mm
Jaw fillet radius	R=1±0.1mm
Impact blade included angle	30±1°
pendulum impact Energy loss	1J: 2%, 2J: 1%, 4J, 5J: 0.5%
Jaw support spacing	40mm, 60mm, 70mm, 95mm
Power	AC220V±10% 50HZ

Method	IZOD Impact Test
Temperature	(15-35) °C
Impact speed	3.5 m/s
Impact Energy	1J, 2.75J, 5.5J (5.5D)
Pendulum Torque	Pd1=0.535N·M Pd2.75=1.4737N·M Pd5.5=2.9474N·M Pd11=5.8949N·M Pd22=11.7898N·M
Pendulum Pre-elevation	150°±1°
Centre distance	335mm
Pendulum Pre-elevation	150°
Centre distance	335mm
Blade fillet radius	R=0.8±0.2mm
Distance from impact blade to jaw	22±0.2mm
Size	560x300x840mm
Weight	80KGS
Power	AC220V±10% 50HZ

CHARPY IZOD IMPACT TESTER CH/IZ-25 CH/IZ-50

It is used for test engineering plastics, glass-steel, ceramics, casting stone, plastic wiring, insulating material, plastic pipe material and other non-metallic materials for anti-impact intensity.

The products satisfy the standard demands of ISO 179, ISO 180, ASTM D256, DIN53453, ISO9854, DIN12608 and others.

STANDARD DELIVERY

- Main frame 1pc
- Cantilever girder grip 1pc
- Fastness support seat (on charpy impact grip) 1pc
- Movement support seat (on charpy impact grip) 1pc
- Former for regulate center (40,60,70,95) 1 set
- Adjustment gasket (2 ,2.5,3.5, 5,7) 2pcs each
- R1 R2 supporting knife-edge 2pcs each
- Cantilever girder benchmark 1pc
- Charpy impact hammer (1J 4J 7.5J 15J 25J) 1pc each
- Cantilever girder hammer (1J 5.5J 11J 22J) 1pc each
- Charpy impact weight (2J 5J) 1pc each
- Cantilever girder weight (2.75J) 1pc each
- Power line 1pc
- Internal six angle spanner (4、 5、 6、 8) 1pc each
- Screwdriver 1pc



TECHNICAL SPECIFICATION

Model No	CH/IZ-25					CH/IZ-50								
	Distance between clamps of Charpy	40mm	60mm	70mm	95mm	40mm	60mm	70mm	95mm					
(Charpy) Impact energy	1J	2J	4J	7.5J	15J	25J	1J	2J	4J	5J	7.5J	15J	25J	50J
(Charpy) Impact speed	2.9m/s			3.8m/s										
(Izod) Impact energy	1J 2.75J 5.5J 11J 22J					1J 2.75J 5.5J 11J 22J								
(Izod) Impact speed	3.5m/s					3.5m/s								

NON-METALLIC PENDULUM IMPACT TESTER

APPLICATION

Non-metallic materials pendulum impact testing machine is to determine the impact toughness of plastic, glass steel, plastic pipe, strong nylon, china, clay rock and anti-electric materials. It can do Charpy, Izod, tensile impact, Charpy & Izod, Charpy & Izod & tensile impact test by different anvils and pendulums as the standards of ISO179/180, ASTM D256, and ISO9854 etc. Pendulum can carry out the full range of impact tests. A complete range of fully interchangeable hammers and vises allow the operator to perform Charpy, Izod and Tensile impact test at different impact velocities and energies.

TECHNICAL SPECIFICATION

Span of the Charpy Anvil: 40mm, 60mm, 70mm & 95mm
Pre-elevation angle: 160°

Model No.	Type	Display	Energy(J)	Impact speed(m/s)
IZ-I 2.75	Izod	Dial	1, 2.75	3.5
IZ-I 5.5			1, 2.75, 5.5	3.5
IZ-I 22			2.5, 11, 22	3.5
IZ-I 2.75D	Izod	Digital	1, 2.75	3.5
IZ-I 5.5D			1, 2.75, 5.5	3.5
IZ-I 22D			5.5, 11, 22	3.5
CH-5	Charpy	Dial	1, 2, 4, 5	2.9
CH-25			7.5, 15, 25	3.8
CH-25Z			1, 2, 4, 5/7.5, 15, 25	2.9/3.8
CH-50			7.5, 15, 25, 50	3.8
CH-5D	Charpy	Digital	1, 2, 4, 5	2.9
CH-25D			7.5, 15, 25	3.8
CH-25ZD			1, 2, 4, 5/7.5, 15, 25	2.9/3.8
CH-50D			7.5, 15, 25, 50	3.8
CH/IZ-5	Izod	Dial	1, 2.75	3.5
	Charpy		1, 2, 4, 5	2.9
CH/IZ-25	Izod	Dial	5.5, 11, 22	3.5
	Charpy		7.5, 15, 25	3.8
CH/IZ-25D	Izod	Digital	1, 2.75, 5.5, 11, 22	3.5
	Charpy		1, 2, 4, 5/7.5, 15, 25	3.8
CH/IZ-50D	Izod	Digital	1, 2.75, 5.5, 11, 22	3.5
	Charpy		1, 2, 4, 5/7.5, 15, 25, 50	2.9/3.8
	Tensile		15J	

Hammers:



IMPACT TESTING MACHINE LOW TEMPERATURE METER



TECHNICAL SPECIFICATION

Model No.	PTM-30	PTM-60	PTM-80	PTM-100
Temperature range (°C)	Room to -30	Room to -60	Room to -80	Room to -100
Accuracy (°C)	≤±0.5			
Effective working space (mm)	120x120x80			
Specimen dimension (mm)	10x10x50			
Specimen quantity (mm)	More than 60 pcs.			
Cooling media	Alcohol or other			
Power supply (kW)	1.0	1.5	1.5	2.0
Dimension (mm)	800x510x480	800x510x750	800x510x480	1200x700x800

Notes: Room temperature down to -150°C/-196°C cooled by liquid nitrogen can be specially ordered according to user's requirement

MANUAL / HYDRAULIC BROACHING MACHINE

APPLICATION

Manual/hydraulic broaching machine is specially designed for specimen preparation for impact specimen. Both manual and hydraulic type are available to cutting the notch according to the 'V' ASTM E23, ISO148 standards, 'U' DIN 50115 and ISO83 standards Charpy Notch Impact Test Method for Metal Material. Meanwhile, the machine also features in high precision, long life, low noise and concise appearance etc.



Model No : BRO-VU1M

Manual type

TECHNICAL SPECIFICATION

- Notch type: V type: 2mm or U type: 2mm.
- Size of specimen: 10x10 (7.5 or 5) ×55mm.
- Travel of cutting knife: 340mm.
- Dim: 400x350x700mm.
- Weight: 100kg



Model No : BRO-VU2E

Hydraulic type

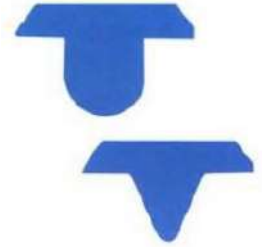
TECHNICAL SPECIFICATION

- Notch type: V type: 2mm or U type: 2mm.
- Size of specimen: 10x10 (7.5 or 5) ×55mm.
- Travel of cutting knife: 340mm.
- Cutting speed: 2.Sm/min .
- Dim: 600x500x1200mm.
- Weight: 200kg.

IMPACT SPECIMEN NOTCH PROJECTOR IMP/PRO-200

APPLICATION

Model IMP/PRO-200 projector amplifies and projects the U or V-shaped profiles of the measured parts to the screen to check their profiles and shapes with high accuracy utilizing the optical projection method. It is widely used to check the U and V-shaped notch impact specimen. It features in easy operation, simple structure, direct inspection and high efficiency.



Notch shape

TECHNICAL SPECIFICATION

- Screen diameter: 180mm.
- Working table: square shape 110x 125mm, round shape 90mm.
- Glass diameter of working table: 70mm.
- Working table travel (LxWxH): Longitude: ± 10 mm, Latitude: ± 10 mm, Rise and fall: ± 12 mm
- Rotating range of round working table: 0-360 degree.
- Magnifications: 50X.
- Objective magnification: 2.5X.
- Projection objective magnification: 20X.
- Eye-field diameter: 3.8mm.
- Working distance: 22.89mm.
- Light source: tungsten lamp 12v 100W.
- Dimensions: 515x224x603mm.
- Weight: approx. 20kg.

IMPACT SPECIMEN V-NOTCHER ISV-25

APPLICATION

Impact specimen v-notcher is necessary impact test machine impact test machine toughness test non-metallic materials used in the sample preparation equipment notched specimens. The equipment is widely used in scientific research institutes, colleges, non-metallic materials factories and laboratory of other units preparation of notched specimens. Impact specimen v-notcher design and manufacture according to ISO179, ISO 180, it is a kind of specimen preparation equipment with simple structure, convenient operation, fast and accurate.



TECHNICAL SPECIFICATION

Type A: $45^{\circ} \pm 30''$ $r = 0.25 \pm 0.025$ mm
 Type B: $45^{\circ} \pm 30''$ $r = 1.0 \pm 0.025$ mm
 Type C: notch width. 2 ± 0.1 mm $r \leq 0.1$ mm
Size: 500mm x 200mm x 300mm

STANDARD DELIVERY

1. Main frame
2. Within six angle spanner
3. Knife (A B C type)
4. User Manual

Net weight: 10Kg gross weight: 15Kg.

TABER ABRASION TESTER PD-505B

APPLICATION

PD-505B TABER Abrasion Tester is designed according to DIN-53754,53799, 53109,TAPPI-T476, ASTM-D3884,ISO5470-1 and relative standards. The main function is using specified grinding wheel with specified Load to rub the surface of specimen, and then evaluate the abrasion condition. The abrasion property could be indicated by measure the loss of weight, volume and thickness. This tester is suitable used for abrasion test to leather, fabric, paint, paper, floor brick, plywood, glass, natural rubber and so on.



TECHNICAL SPECIFICATION

Load	250g,500g, 750g,1000g
Specimen: outside dia	Ø108mm; inside dia. Ø 8mm, 3mm(D)
Grinding Wheel	Ø2` (max.45mm)1/2` (W)
Space Between Grinding Wheels	63.5mm
Grinding Wheel and Plate`s Space:	37~38mm
Rotating Speed	60~72r/min(adjustable)
Counter	LED 0~99999999
Distance Between Specimen and Hose	3mm
Grinding wheel type(optional)	H18,H22, CS10,CS17,CS32,CS33
Dimension	45x35x42cm
Test standard	DIN53754,53799,53109,52347,TAPPI T476, ASTM D3884,ISO 54701, ASTM D 1175
Accessories	1PC Grinding wheel, 1PC Dust collector, 1 book of English manual, 1PC of Operation video CD

DIN ABRASION TESTER PD-502

APPLICATION

This tester uses a specific load to rub the material to evaluate the abrasive performance, used for outsole of shoes, track belt, tire, rubber, plastic, etc.

Specimen Grips: ø16mm

Load: 2.5N,5N,10N

Speed 40rpm.

Grips horizontal Moving Distance: 4.2mm/Per Roller Turn

Roller Diameter150mm,

Abrasion Travel:40 m

Dimension: 80 x 34 x 35 (H) cm;

Power: Single Phase,AC 220V,3A

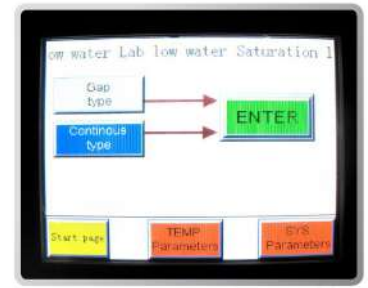


SALT SPRAY CHAMBER



The Salt Spray Chamber are specialized to test the performance of the products for its surface of various materials after treatment of corrosive protection by means of painting, coating, galvanizing, anodizing and of lubricant.

- Comply to international standards: ISO3768, 3769, 3770, 9227, ASTM B117, B268, JIS Do201, H8502, H8610, K5400, Z2371,
- **Capacity: 110, 270, 480, 640L optional**



FEATURES

- With LCD touch screen controller operation, PID control with 0.1C precision
- Auto water supply when the water is too low
- Precise Pyrex it falls on the surface of the products being tested the difference of fallen mist preese pyrex guarantees no crystallized salt
- With double over-heat protect and water low alert to ensure safety
- With timer control
- With thermometer
- Spray tower with cone sprayer, to direct fog, regulate fog amount make the fog dispersing evenly
- Hanter principle is used to make the saturated air hot and moist to keep the humidity in the test chamber
- Testing NSS,CASS,AASS

TECHNICAL SPECIFICATION

Mode	SS108L	SS270L	SS480L	SS800L	SS1440L
Inside Dimensions(mm)	600x450x400	900x600x500	1200x850x500	1600x1000x550	2000x1200x600
Outside Dimensions(mm)	1130x630x1070	1460x910x1280	2200x1200x1450	2600x1450x1550	3000x1650x1600
Chamber Volume	108L	270L	480L	800L	1440L
Saline Box Capacity	15L	25L	40L	40L	40L
Testing Temperature	NSS ACSS 35°C±1°C/ CASS 50°C±1°C				
Air Temperature	NSS ACSS47°C±1°C/CASS 63°C±1°C				
Accuracy of Temperature	±1°C				
PH Value	NSS ACSS:6.5~7.2 / CASS:3.0~3.2				
Supply Power	AC220V/50Hz AC110V/60Hz 1Φ20A		AC 220V/50HZ AC110V/60HZ 1Φ30A		

PROGRAMMABLE HIGH & LOW TEMPERATURE CHAMBER

FEATURES

- The box body is processed shape using CNC machine tool, beautiful appearance, and uses no reaction door handles, easy to operate, safe and reliable.
- Adopted built-in fluorescent lamp, the rectangular viewing window consists of glass with a heat generator, which prevents blur and saves wiper operation so that you can always observe the test under the best conditions.
- Available in Chinese and English LCD touch screen, easy operation and program.
- Able to display the relative data and information of the whole operating system in running mode, graphic display, precautions, maintenance and trouble shooting.
- The siracco fan motor provides greater cyclic airflow to avoid dead corner in the chamber, so as to obtain a uniform distribution of temperature and humidity.
- The heating, cooling system completely independent can improve efficiency, reduce cost of test, increase life expectancy and reduce the failure rate.



TECHNICAL SPECIFICATION 0~ +100 (150°C)

Model No.		PHL-80A	PHL-150A	PHL-225A	PHL-416A	PHL-800A	PHL-1000A
Interior dimensions (mm)	W	400	500	500	700	1000	1000
	H	500	600	750	850	1000	1000
	D	400	500	600	700	800	1000
Exterior dimensions (mm)	W	930	1030	1080	1230	1530	1530
	H	1310	1410	1620	1660	1810	1810
	D	910	1010	1220	1410	1610	1510
Interior Volume(L)		80	150	225	416	800	1000
System		Balanced Temperature Control System					
environment temp.&humi.range		+5°C ~ +35°C / <85%RH					
Temp.range		-0°C ~ +100 (150°C) (A=0°C B=-20°C C=-40°C D=-70°C optional)					
Temp.fluctuation		≤0.5°C					
Temp.uniformity		≤2.0°C					
Temp.stability		±0.2°C					±1.5°C
Heating up time		0°C ~ +100°C within 20 min					
Pull down time		20°C ~ 0°C within 20 min					

Power	AC220V/380V、50/60HZ
Exterior material	Cold rolled plate paint
Interior material	Stainless steel plate
Insulation	Polyurethane;fire retardant;100k insulation rockwool
Refrigeration system	Hermetic compressor, single stage refrigeration system
Heating system	Stainless steel thermal heaters
Controller	TEMI-880 Touch panel
Safety devices	Overheat protector,Over voltage and phase shift protector,Compressor overload and high pressure protector,Buzzer alarm
Accessories	Viewing window,Chamber lamp,Cable port ϕ 50mm,Stainless steel netting bracket 2sets

TECHNICAL SPECIFICATION -20~ +100 (150°C)

Model		PHL-80B	PHL-150B	PHL-225B	PHL-416B	PHL-800B	PHL-1000B
Interior dimensions (mm)	W	400	500	500	700	1000	1000
	H	500	600	750	850	1000	1000
	D	400	500	600	700	800	1000
Exterior dimensions (mm)	W	930	1030	1080	1230	1530	1530
	H	1310	1410	1620	1660	1810	1810
	D	810	910	1120	1210	1310	1510
Interior Volume(L)		80	150	225	416	800	1000
System		Balanced Temperature Control System					
environment temp.&humi.range		+5°C ~ +35°C / <85%RH					
Temp.range		-20°C ~ +100 (150°C)					
		(A=0°C B=-20°C C=-40°C D=-70°C optional)					
Temp.fluctuation		$\leq 0.5^{\circ}\text{C}$					
Temp.uniformity		$\leq 2.0^{\circ}\text{C}$					
Temp.stability		$\pm 0.2^{\circ}\text{C}$					$\pm 1.5^{\circ}\text{C}$
Heating up time		-20°C ~ +100°C within 35 min					
Pull down time		20°C ~ -20°C within 45 min					

* At 20°C Ambient temperature or 25°C water temperature and non-loaded.

* The sensor should be located at a distance of 1/6 of the interior dimension from the interior chamber wall.

* The above specifications are for reference only,the actual specifications for the main quotaion.

* Can according to customer requirements of size, special order



***DIGITAL MEASURING PROJECTOR
VERTICAL VIDEO PROJECTOR
MANUAL VISION MEASURING MACHINE
AUTO VISION MEASURING MACHINE
STEREO MICROSCOPE
VIDEO MICROSCOPE
PORTABLE MEASURING MICROSCOPE
SURFACE MICROSCOPE
SCALE LOUPE
USB DIGITAL MICROSCOPE
LED MAGNIFYING LAMP
LINEN TESTER
DIAMOND LOUPE
FOUR ZONE MICROSCOPE RING LIGHT
TOOLMAKER MICROSCOPE***



Ø300 DIGITAL MEASURING PROJECTOR PJ-350

FEATURES

- Use circular arc profile design, beautiful in appearance and easy to operate
- Use linear guide and non-interference nut on the up and down system, more stable and comfortable to use.
- Patent coating proces on the reflective mirror, better anti-dust performance .
- The light intensity is adjustable in high or low mode.to suit measuring requirements of different workpieces.
- Imported long-life halogen tungsten lamps are adopted to satisfy the requirement of long-time uses of the projector.
- Equipped with excellent optical system, the objectives are clear in imaging and accurate in magnification.
- With axial flow blower fans, the bilateral heat radiation provide super radiating power.

TECHNICAL SPECIFICATION

Projection Screen

- Screen diameter (mm) :Φ300
- Rotating range : 0° ~ 360°
- Resolution of the rotary angle : 1'
- Accuracy of the rotary angle : 6'

Illumination source

- Transmission illumination 12V 100W
- Reflecting illumination 24V 150W
- Dimension: 694 x 380x 1065(Lx Wx H)
- Environment requirements
Room temperature:20°C± 5°C
Relative humidity: 40%~70%
- Power Supply: AC 220V 50HZ
- Instrument weight:1 80kg

Objective

Magnification Power	10x (Standard)	20x (Optional)	50x (Optional)	100x (Optional)
Object Visual Field	Ø30mm	Ø15mm	Ø6mm	Ø3mm
Object Working Distance	75mm	69mm	44 mm	26mm
Errors of magnifying power	0.08%			

Worktable

Type	Small	L arge
Size of worktable	350x 202	400x 225
X and Y travel (mm)	150x 100	200x 100
Z- axis(Focusing)(mm)	0~90	
Resolution	1 um	
Accuracy of X and Y coordinate value	(3+L/75) um, of which,L=length of the work piece measured (unit:mm)	
Load capacity of the worktable	5kg	



Ø300 DIGITAL MEASURING PROJECTOR PJ-300

APPLICATION

Profile Projector PJ300 are precise and excellent non-contact optical measuring instrument integrated with the technology of optic, mechanic, electricity and computer. It is widely used at the field of mechanism, meter, electronic, rubber industry for quality control, it can inspect all kinds of surface and outline of complicated work-pieces, such as, cam, screw thread, gear, perform milling cutter and so on, and it is an effective metrical and analytic system for education, research institute and lab.

FEATURES

- 300mm diameter screen with digital protractor;
- Four size of precision movement stages;
- Double steel guide for stage lifting focus system;
- Halogen profile and surface illumination;
- Geometric multifunctional data processing system ;
- Available rotary table, edge detecting sensor, etc.



Reverse Image	PJ-300	PJ-310	PJ-320	PJ-330
Obverse Image	PV-300	PV-310	PV-320	PV-330
Metal Stage Dimension	340x152mm	230x230mm	350x170mm	350x170mm
Glass Stage Dimension	196x96mm	145x145mm	246x120mm	246x120mm
Stage Travel: X-axis	150mm	100mm	150mm	200mm
Stage Travel: Y-axis	50mm	100mm	100mm	100mm
Stage Travel: Z-axis	100mm(for focusing)	100mm(for focusing)	100mm(for focusing)	100mm(for focusing)
Accuracy	$\leq(3+L/75)\mu\text{m}$	$\leq(3+L/75)\mu\text{m}$	$\leq(3+L/75)\mu\text{m}$	$\leq(3+L/75)\mu\text{m}$
Screen	Screen Diameter :Ø312mm, Effective Range \geq Ø300(with" * "Reticle)			
	Rotary Range of Screen: 0~ 360°			
	Resolution Rotary Indicator: 1'or 0.01°			
Digital readout	DR 200 Multifunctional Data Processing System			
Resolution of X and Y-scale	0.0005mm			
Illumination	Surface and Contour Illumination:24V/150W halogen lamp			
Power	AC110V/60Hz; 220V/50Hz, 400W			
Cooling	Forced Cooling (3-axis-fans)			
Gross/Net Weight	200/150Kg	210/155Kg	225/165Kg	220/170Kg

Ø400 DIGITAL MEASURING PROJECTOR PH-460

APPLICATION

PH-460 profile projector can test effectively profile, section and surface shapes of various complicated work-pieces, such as templates, punching pieces, cams, gears, forming cutters, mercerizes etc. it is widely used in workshops and measuring stations of those industries: machinery, instrument & meter, watch-making, mould and electron etc.

FEATURES

- It is a horizontal structure, so it is convenient to measure axial work-pieces, and it has a long working distance.
- The up and down movement system and work table transmission both adopt the imported V-style straight-line guide, so transmission is very smooth and comfortable.
- Two kinds of illumination systems (high and low levels) can meet Various illumination requirements of different work-pieces and materials.
- Reflecting illumination adopts fiber-optic transmission, so it has the characteristics of small volume, high-brightness and convenient operation.
- Worktable is made of aluminum alloy material, so it is very light.
- Image is clear and symmetrical.
- It is convenient to trim and file the templates, mould and axial work pieces on the worktable.
- Powerful built-out digital displayer is convenient for operation.
- Workable can deflect $\pm 15^\circ$, so it is available to measure screw angle work-pieces.



TECHNICAL SPECIFICATION

Projection Screen

- Screen diameter(mm): Ø400
- Rotary range: $0^\circ\sim 360^\circ$
- Rotary angle resolution: 1'
- Rotary angle accuracy: 4'

"L": measuring length of work-piece (Unit: M)

Worktable

- Size of worktable(mm): 450 x 150
- X axis travel (mm): 0 ~ 250 Resolution: 0.001mm
- Z axis travel (mm): 0~150 Resolution: 0.001mm
- Y axis travel (mm): 0~80 (focusing)
- Load capacity: 5kg
- Accuracy of X.Y axis: $(3+L/75) \mu\text{m}$
of which, L = length of the workpiece measured (unit: mm)

Lighting source

Transmission lighting: 24V/150W
 Indirect lighting: 24V/150W (with reflection cup)
 Room temperature: $20^\circ\text{C}\pm 5^\circ\text{C}$
 Relative humidity: 40~70%
 Power: AC 220V 50HZ 110V 60HZ
 Dimension: 687×443×942(LXWXH)
 Weight: 1350 kg

Objective

Magnification	10X (Standard)	20X (Optional)	30X (Optional)	100X (Optional)
View-field on object	Ø40mm	Ø20mm	Ø8mm	Ø4mm
Working distance	88mm	81mm	54mm	45mm
Magnification error	0.08%			

VERTICAL VIDEO PROJECTOR PV-500

FEATURES

- Solid framework, large LCD touch screen and advanced software
- High quality optics for crisp and clear images
- Excellent repeatability
- Adjustable LED illumination
- High resolution industrial CCD camera
- Lens changeable within the range of 20-120x magnification
- Easy to operate user interface
- Accuracy 0.0005mm
- Advanced functionality such as quick measuring of correlative parameters of gear tapers
- Extended function of printing ,saving and exporting data
- Excel or txt report output, DXF inpput or output.



STANDARD DELIVERY

- Measuring Software QM2.0
- Calibration Block
- CCD Camera MC1
- Capture Card
- Zoom lens 0.7~4.5x
- LED Lightsource

Optional accessory

- CCD Camera MC3
- Pomeas detent zoom lens
- Working Cupboard

TECHNICAL SPECIFICATION

Model No.	PV-500	PV-520
(X/Y/Z)Measuring range(mm)	250x150x150	300X200X150
Machine dimension(mm)	650x800x1600	
Operation mode	Manual(with auto edge detection)	
Video device	1/3" color CCD camera,0.7-4.5x zoom lens	
Magnification	20-120X(it can extend to 240x)	
Screen dimension	19" LCD touch-screen monitor	
Lens work range	95mm	
X,Y-axis resolution	0.0005	
Accuracy	$\leq(3+L/200)\mu\text{m}$	
Repeatability	5um	
Measuring software	QuickMeasuring 2.0	
Color CCD Camera	MC1	
Suitable environment	Workshop and Metrology room	
Stage load capacity	10Kg	
Power supply	110V/60Hz;220/50Hz	
Gross/Net Weight	220KG/150KG	

Accessories:

	1XCCD adapter(standard)		0.5XCCD adapter (option)		Working distance
Zoom lens	0.7 ~ 4.5X		0.7 ~ 4.5X		
Zoom lens	Digital magnification	Visual field	Digital magnification	Visual field	
0.5X(option)	15 ~ 95X	20 ~ 3.2mm	7.5 ~ 48X	40 ~ 6.4mm	175mm
1X(standard)	301 ~ 90X	10.6 ~ 1.6mm	15 ~ 96X	20 ~ 3.2mm	96mm
2X(option)	60 ~ 380X	5 ~ 0.8mm	30 ~ 190X	10.6 ~ 1.6mm	32mm

HIGH ACCURACY MANUAL VISION MEASURING MACHINE

FEATURES

- High precision granite plate base and pillar, to ensure high stability and accuracy;
- High precision toothless rod and fast moving locking device, to ensure hysteresis errors within 2um;
- High accuracy A grade optical linear scale with precision working stage, to ensure the accuracy is within $3+L/200\mu\text{m}$;
- High definitive detented zoom lens and high resolution color digital camera, to ensure clear image without distortion;
- With programmable surface 4-ring 8-division LED Cold Illumination and contour LED parallel illumination and internal intelligent light adjustment, it can automatic control the brightness in the 4-ring 8-division;
- Powerful function iMeasuring2.1 measuring software highly enhance the quality control situation;
- Optional imported contact probe and 3D measuring software which can update it to 3D Measuring machine;

High Accuracy
 $2.4+L/200(\mu\text{m})$

High Resolution
700TVL Color
CCD

Measurement Software
iMeasuring 2.1



TECHNICAL SPECIFICATION

Model No.	VMM-200	VMM-250	VMM-300	VMM-400	VMM-500
Metal Table	408x308mm	408x308mm	458x358mm	608x470mm	708x470mm
Glass Table	306x198mm	306x198mm	356x248mm	456x348mm	556x348mm
X/Y-axis Travel	200x100mm	250x150mm	300x200mm	400x300mm	500x400mm
Z-axis Travel	High-precision linear guide , working travel 200mm				
X/Y/Z-axis Travel	0.0005mm				
X/Y-axis Accuracy	$\leq 2.4+L/200(\mu\text{m})$				
Repeatability	2um				
Base and Pillar	High Accuracy Granite Plate				
Illumination	Surface: Stepless Adjustable 4-ring 8-division LED Cold Illumination				
System(Software Adjustment)	Contour: LED Parallel Illumination LED Laser Navigation Lights [Optional]				
CCD Camera	High Resolution 700TVL Color CCD Camera				
Zoom lens	6.5X High Resolution Detented Zoom Lens Magnification : 0.7X~4.5X ; Video Magnification : 26X~172X				
Working Environment	Temperature : 20°C±2°C, change range < 2°C/hr				
	Humidity : 30% ~80%RH				
	Vibration<0.002g , <15Hz				
Measuring Software	iMeasuring 2.1				
Operation System	Support XP , WIN7 , WIN8.1 , WIN 10, 32/64 operating system				
Language	English, Simplified Chinese, Traditional Chinese, other language versions can be added				
Dimension(W*D*H)	790x617x1000mm	790x617x1000mm	840x670x1000mm	1002x817x1043mm	1002x867x1043mm
Net Weight	175Kg	175Kg	185Kg	350Kg	380Kg

STANDARD DELIVERY

Product Name	Model No.	Product Name	Model No.
2.5D Measuring Software	PIM2.1	Video Capture Card	P527-130
Contour LED Parallel Illumination	P425-100	DELL PC System	P581-960
Surface 4R/8D LED Illumination	P425-130	AV Video Cable	P581-940
Detented Zoom Lens	P421-100	RS232 Data Cable	P581-930
HD700TVL Color Camera	P484-130	Optical Calibration Block	P581-800

Optional Accessories

Product Name	Model No.	Product Name	Model No.
Electronic Zoom Lens	P421-140	Rotary Tables RT 2	P581-520
12.5X Detented Zoom Lens	P421-100	Rotary Tables RT 3	P581-530
Coaxial Detented Zoom Lens	P421-120	Working Cupboard ST 05	P581-650
0.5X Auxiliary Objective	P423-050	Swivel Center Support	P581-850
2X Auxiliary Objective	P423-200	Foot Switch	P581-350
Laser Positioning System	P581-330		



LED Illumination



Working Stage

HIGH ACCURACY 3D MANUAL VISION MEASURING MACHINE

FEATURES

- High precision Granite Plate base and pillar, to ensure high stability and accuracy;
- High precision toothless rod and fast moving locking device, to ensure hysteresis error is within 2um;
- High accuracy A grade optical linear scale with precision working stage, to ensure the accuracy is within $3+L/200\mu\text{m}$;
- High definitive detented zoom lens and high resolution color digital camera, to ensure clear image without distortion;
- With programmable surface 4-ring 8-division LED Cold Illumination and contour LED parallel illumination and built-in intelligent light adjustment, it can automatic control the brightness in the 4-ring 8-division;
- Imported contact probe and powerful function iMeasuring3.1 3D Measuring Software, highly enhance the quality control;

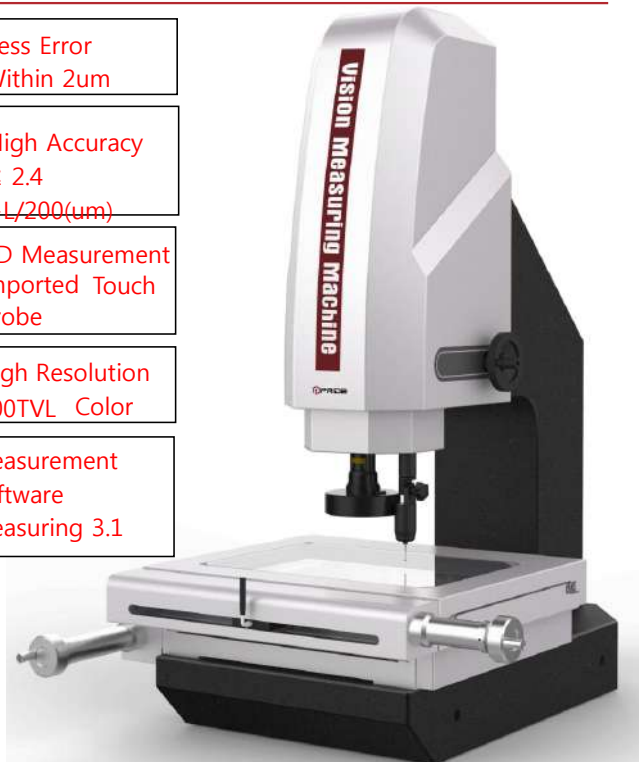
Less Error
Within 2um

High Accuracy
 ≤ 2.4
 $+L/200(\mu\text{m})$

3D Measurement
Imported Touch
Probe

High Resolution
700TVL Color

Measurement
Software
Measuring 3.1



TECHNICAL SPECIFICATION

Model No.	VMM3D-200	VMM3D-250	VMM3D-300	VMM3D-400	VMM3D-500
Metal Table	408x308mm	408x308mm	458x358mm	608x470mm	708x470mm
Glass Table	306x198mm	306x198mm	356x248mm	456x348mm	556x348mm
X/Y-axis Travel	200x100mm	250x150mm	300x200mm	400x300mm	500x400mm
Z-axis Travel	High-precision linear guide, working travel 200mm				
X/Y/Z-axis Travel	0.0005mm				
X/Y-axis Accuracy	≤2.4+L/200(um)				
Hysteresis Error Repeatability	2um				
Base and Pillar	High Accuracy Granite Plate				
Illumination System(Software Adjustment)	Surface: Adjustable 0~255 grade 4-ring 8-division LED Cold Illumination, every division can be adjust independently				
	Contour: LED Parallel Illumination				
	LED Laser Navigation Lights [Optional]				
CCD Camera	High Resolution 700TV Color CCD Camera				
Zoom lens	6.5X High Resolution Detented Zoom Lens				
	Magnification : 0.7X~4.5X ; Video Magnification : 26X~172X				
Working Environment	Temperature : 20°C±2°C, change range < 2°C/hr				
	Humidity : 30% ~80%RH				
	Vibration<0.002g , <15Hz				
Measuring Software	IMeasuring3.1				
Operation System	Support XP , WIN7 , WIN8.1 , WIN 10,32/64 operating system				
Language	English, Simplified Chinese, Traditional Chinese, other language versions can be added				
Dimension(W*D*H)	790x617x1000mm	790x617x1000mm	838x667x1000mm	1002x817x1043mm	1002x867x1043mm
Net Weight	175Kg	175Kg	185Kg	350Kg	380Kg

STANDARD DELIVERY

Product Name	Model No.	Product Name	Model No.
3D Measuring Software	PIM3.1	Video Capture Card	P527-130
Contour LED Parallel Illumination	P425-100	DELL PC System	P581-960
Surface 4R/8D LED Illumination	P425-130	AV Video Cable	P581-940
6.5X Detented Zoom Lens	P421-100	RS232 Data Cable	P581-930
HD700TVL Color Camera	P484-130	Optical Calibration Block	P581-800

Optional Accessories :

Product Name	Model No.	Product Name	Model No.
Electronic Zoom Lens	P421-140	Rotary Tables RT 2	P581-520
12.5X Detented Zoom Lens	P421-100	Rotary Tables RT 3	P581-530
Coaxial Detented Zoom Lens	P421-120	Working Cupboard ST 05	P581-650
0.5X Auxiliary Objective	P423-050	Swivel Center Support	P581-850
2X Auxiliary Objective	P423-200	Foot Switch	P581-350
Laser Positioning System	P581-330		

3D FULLY AUTO VISION MEASURING MACHINE

FEATURES

- 3D full Auto Vision is a classical Fully Auto Vision Measuring Machine, it is equipped with four-axis motorized control and auto zoom lens and probe, powerful function, simple operation, widely application.
- Four-axis CNC fully auto close loop control, auto measurement;
- "00" grade Granite Plate base and pillar, stable and reliable;
- Precision linear guide, grinding ball screw and AC servo motor, ensure accuracy stability of system position;
- High precision linear scale, resolution is 0.5um, high accuracy, great stability;
- Imported high definition color industry digital camera, ensure clear observation and stable measurement requirement;
- 6.5X continue auto zoom lens, precision auto zoom, only need to make pixel calibration once time;
- Programmable 5-ring 8-division LED surface illumination, contour parallel LED illumination, can realize 256 grade brightness adjustment intelligently;
- With proprietary powerful function fully auto measuring software iMeasuring 4.2;
- With imported touch probe, realize 3D measurement;
- Can set auto measurement, and finish batch measurement with high efficient;
- Laser, coaxial illumination and other parts are optional;



- Four-axis Motorized
- Auto Light
- Auto Zoom
- Auto Measurement
- Auto Focus
- MCP Probe

TECHNICAL SPECIFICATION

Model No.	VMA3D-300A		VMA3D-400A		VMA3D-500A		
X/Y-axis Travel (mm)	300x200		400x300		500x400		
Z-axis Travel (mm)	200						
X/Y/Z 3-axis Linear Scale (mm)	High precision linear scale , resolution : 0.0005mm						
Guidance Mode	Precision P-grade linear guide , double-track double slider guide						
Operation Mode	Joystick controller, Mouse operation, automatic detection program						
Measurement Accuracy	XY-axis : $\leq 2.2+L/200\mu\text{m}$						
	Z-axis : $\leq 4+L/200\mu\text{m}$						
Repeatability	2um						
Video System	High definition 1/3" Color CCD Camera,						
	6.5X continue click zoom lens; optical magnification: 0.7X-4.5X; video magnification:126X~172X(21.5"monitor)						
Field of View(mm) (Diagonal *)	Lens Magnification	0.7x	1x	2.0x	3.0x	4x	4.5x
Horizontal* Vertical)	1/3" CCD	8.57x6.86x5.14	6.00x4.80x3.60	3.00x2.40x1.80	2.00x1.60x1.20	1.50x1.20x0.90	1.33x1.07x0.80
Illumination	Contour	LED Parallel Contour Illumination					
	Surface	5-ring 8-division 0~255 grade continue adjustable					
Software System	iMeasuring 4.2 Fully Auto Measuring Software						
Load Capacity (Kg)	25		25		20		
Working Environment	Temperature 20°C±2°C , Humidity Range<2°C/hr,Humidity 30~80%,Vibration<0.002g,<15Hz						
Power	220V/50Hz/10A						
Dimension(mm)	1200x780x1650		1350x880x1650		1420x980x1650		
Weight(Kg)	580		650		780		

* L is measuring length , unit is mm, the mechanical accuracy of Z-axis and focus accuracy is greatly related to the surface of the workpiece.

* Magnification is approximate value, it is related to the dimension of monitor and resolution.

* Customers can choose 0.5X or 2X optional objective, and realize image magnification: 13X~86X or 52X~344X.

ZOOM STEREO MICROSCOPE SM-500

FEATURES:

- Sharp stereo erect image over a wide field of view
- 45°inclined and 360°rotatable binocular head
- The interpupillary distance is between 55mm-75mm, The left ocular-tube with diopter adjustment ± 5 dp
- Inside incident light, brightness adjustable, various illumination for selection
- Power supply 110V/60HZ or 220V/50HZ
- Product has CE approval .



SM-520



SM-510



SM-500

TECHNICAL SPECIFICATION

Model No.	Eyepiece	Objective	Base/ working stage	Up & down mechanism	Incident illumination	Transmitted illumination
SM-500	HWF10X	ZOOM 0.75X-5X	Φ95mm Frosted glass	Pillar style	Bowl halogen lamp 12V 10W	Halogen lamp 12V 10W
SM-510	HWF10X	ZOOM 0.75X-5X	Φ95mm Frosted glass	Arm curved	Bowl halogen lamp 12V 10W	Halogen lamp 12V 10W
SM-520	HWF10X	ZOOM 0.75X-5X	Φ95mm Frosted glass	Arm curved	Bult-in LED ring light	1W LED lamp
SM-530	HWF10X	ZOOM 0.75X-5X	Φ95mm Frosted glass	Pillar style	Natural illumination	Natural illumination

Optional accessories: 0.5X, 1.5X, 2X(Auxiliary Objective);HWF5X, HWF10X, HWF20X, HWF25X(Eyepiece); Ring light

OPTICAL DATA:

Objective Eyepiece		Main body	With 0.5x auxi objective	With 1.5x auxi objective	With 2x auxi objective
		0.75x ~ 5x	0.375x ~ 2.5x	1.125x ~ 7.5x	1.5x ~ 10x
HWF5x	Total magnification	3.75x ~ 25x	1.875x ~ 12.5x	5.625x ~ 37.5x	7.5x ~ 50x
	Field of View	Φ31 ~ Φ4.6	Φ61.3 ~ Φ9.2	Φ22 ~ Φ3.3	Φ16 ~ Φ2.5
HWF10x	Total magnification	7.5x ~ 50x	3.75x ~ 25x	11.25x ~ 75x	15x ~ 100x
	Field of View	Φ33 ~ Φ5	Φ65 ~ Φ10	Φ22 ~ Φ3.3	Φ16 ~ Φ2.5
HWF15x	Total magnification	11.25x ~ 75x	5.625x ~ 37.5x	16.875x ~ 112.5x	22.5x ~ 150x
	Field of View	Φ24 ~ Φ4.2	Φ48 ~ Φ8.5	Φ16 ~ Φ2.8	Φ12 ~ Φ2
HWF20x	Total magnification	15x ~ 100x	7.5x ~ 50x	22.5x ~ 150x	30x ~ 200x
	Field of View	Φ20 ~ Φ3.5	Φ40 ~ Φ7	Φ13.3 ~ Φ2.3	Φ10 ~ Φ1.8
HWF25x	Total magnification	18.75x ~ 125x	9.375x ~ 62.5x	28.125x ~ 187.5x	37.5x ~ 255x
	Field of View	Φ15.8 ~ Φ2.4	Φ31.5 ~ Φ4.8	Φ10.5 ~ Φ1.6	Φ7.9 ~ Φ1.2
working distance		113mm	220mm	50mm	35mm

ZOOM STEREO MICROSCOPE SM-900

FEATURES

- Sharp stereo erect image over a wide field of view.
- 45° inclined and 360° rotational binocular head with locked-in eyepiece. The left ocular-tube with diopter adjustment $\pm 5dp$, The interpupillary distance is between 55-75mm
- Products CE approved
- Power supply 110V/60Hz or 220V/50Hz
- Illumination: L1. Incident reflected halogen lamp 12V/10W; Transmitted halogen lamp 12V/10W
L2. Incident reflected halogen lamp 12V/10W; Transmitted halogen lamp 12V/10W. Brightness is adjustable.
L3. Halogen lamp 12V/10WW for incident lamp and fluorescent lamp 5W for transmitted lamp
L4. Halogen lamp 12V/10WW for incident lamp and fluorescent lamp 5W for transmitted lamp Brightness is adjustable L5. Both incident and transmitted light with LED.
- Each set packed in styrofoam and in an inner box. Two sets in one carton, The outer measurement is 41X35X41.50cm (SM-900), 50X37X48cm (SM-910, SM-920).



SM-910



SM-970



SM-950



SM-920

Model No.	Standard eyepiece	Objective	Viewing head	Up & Down Mechanism	Base /Working stage
SM-900	SWF10X	ZOOM1X-4X	Binocular	Pillar style	Φ95mm Frosted glass
SM-910	SWF10X	ZOOM1X-4X	Binocular	Arm curved style	Φ95mm Frosted glass
SM-920	SWF10X	ZOOM1X-4X	Trinocular	Pillar style	Φ95mm Frosted glass
SM-930	SWF10X	ZOOM1X-4X	Trinocular	Arm curved style	Φ95mm White/Black Working stage
SM-940	SWF10X	ZOOM1X-4X	Binocular	Pillar style	Φ95mm Frosted glass
SM-950	SWF10X	ZOOM1X-4X	Binocular	Pillar style	Φ95mm Frosted glass
SM-960	SWF10X	ZOOM0.75X-3.6X	Binocular	Pillar style	Φ95mm Frosted glass
SM-970	SWF10X	ZOOM0.75X-3.6X	Binocular	Arm curved style	Φ95mm Frosted glass
SM-980	SWF10X	ZOOM0.75X-3.6X	Binocular	Pillar style	Φ95mm Frosted glass

Optional accessories: 0.5X, 7.5X, 1.5X, 2X(Auxiliary Objective); WF5X, SWF10X, WF15X, WF20X(Eyepiece); Ring light ; White/Black working stage.

Model No.	Eyepiece	Standard Objective			Auxiliary Objective							
		Objective	Field of View	Working Distance	0.5X		0.5X		0.5X		0.5X	
					Field of View	Working Distance	Field of View	Working Distance	Field of View	Working Distance	Field of View	Working Distance
SM-900~950	WF5X	1-4X	20-5	91	40-11	170	25-6.5	100	13-3.5	42	10-2.5	28
	SWF10X	1-4X	23-5.5	91	52-12	170	30-7	100	15-4.8	42	11.5-3	28
	WF15X	1-4X	15.5-4	91	36-8.5	170	21-5	100	10.5-2.5	42	8-2	28
	WF20X	1-4X	10.5-3	91	25-5.8	170	14-3.5	100	7-1.8	42	5.5-1.5	28
SM-960~980	WF5X	0.75-3.6X	26-6	86	60-13	178	32-7	96	16-4	42.5	12.5-3	25.5
	SWF10X	0.75-3.6X	28-6	86	63-14	178	35-8	96	18-4	42.5	14-3	25.5
	WF15X	0.75-3.6X	19-4.5	86	43-9.5	178	24-5.5	96	12-3	42.5	9.5-2	25.5
	WF20X	0.75-3.6X	12.5-3	86	28-6	178	16-3.5	96	8-2	42.5	6-1.5	25.25

VIDEO MICROSCOPE VM-100

APPLICATION

Video Microscope is widely used in the inspection of electronic industry production line, printed circuit board, weld detects (such as wrong printing, edge collapse,etc)during printed circuit component, PC Board, VFD, and the identification of printing grid and painting, etc. It can display the zoom out image on the screen and save, magnify and print.

FEATURES

- With high definition 0.7~4.5X parallel continue zoom lens, it is more convenient and fast to switch objective magnification;
- With precision coarse and fine lifting system, ensure perfect focus and clear image;
- With adjustable LED bottom and surface illumination, it can control brightness independently;
- Built-in FULL HD sensor and VGA integrated camera, can directly connect with the monitor to realize video image and can also use SD card to take picture or record video, which integrate video observation and image storage;
- Simple external interface: 12V power supply input and USB/ VGA video output, SD card hole to make installation simpler;
- Multiple optional mobile control platform, ensure precision position measurement.



TECHNICAL SPECIFICATION

unit:mm

Electronic Magnification	8X~206X (16:9 21"Monitor)
Optical Objective	0.7X~4.5X horizontal zoom lens Zoom ratio 6.5 : 1 0.5X C-mount Camera Adapter
Camera Parameter	2 million pixel (1920*1080) Image Size:1/2.86"
Camera Function	Frames Per Second : 30fps White Balance; Brightness Control; Digital Noise Reduction Photograph and Video Record VGA/USB Output, SD Card Storage OSD: Comprehensive digital UI design, Wireless USB 2.0 Mouse Operation Cross Line Picture Frozen,10X Digital Magnification
Measuring Function	Optional PC System and measuring software can measure image in the field of view
Illumination	Bottom: Adjustable LED Illumination Surface: Adjustable LED Illumination
Microscope Stand	Z-axis Travel: 150mm Coarse/Fine Lifting System
Electrical Parameters	AC90~240V ; 50~60HZ
Dimension	290*280*400 mm
Gross/Net Weight	7.0/4.7Kg

STANDARD DELIVERY

unit:mm

Microscope Main Body	VM-100
Power Adapter	DC12V
Mouse	Wireless
SD Card	8G
Operation Manual/Warranty Card/ Certificate/Packing list	VM-100

PORTABLE MEASURING MICROSCOPE

FEATURES

- The portable measuring microscope is used for measuring or viewing purposes in production or laboratory. It is particularly suitable for spot examination of machinery industry, paper making, print and textile, etc. The product features small size, light weight, nice design and easy operation.

TECHNICAL SPECIFICATION

Model No. (no light)	XL-20	XL-50	XL-100
Model No. (with light)	XL-20L	XL-50L	XL-100L
Total Magnification	20X	50X	100X
Mechanical Tube Length	160mm		
Power of Objective	2X	5X	10X
Power of Eyepiece: 10X			
Focus Range: 30mm			
Diameter of Viewing field in Eyepiece: Φ 18mm			
Reticule of Eyepiece : 0.1 Micrometer			
Diameter of Bearing Plane: Φ 63mm			
Height of Microscope: 210mm			
Mass of Microscope: 0.65kg			



PORTABLE MEASURING MICROSCOPE

FEATURES

- Compact and light weight with a wide field of view.
- It allows not only to provide magnified view of fine pattern and contour of objects, but also to measure length and compare dimensions by using a scale included in the eyepiece.
- It is useful not only for the general observation but also for improving accuracy in precision machining and securing uniform quality in the inspection process.
- The pen illumination system provides a high intensity source but is removable if not needed.



Model No.	KT 293-1	KT 293-2	KT 293-3	KT 293-4
Magnification	20X	40X	60X	100X
Eyepiece	10x	10x	10x	10x
Objective	2x	4x	6x	10x
Field of View	8.3°	8.5°	8.4°	5.2°
Exit pupil	1.8mm	1.4mm	1.2mm	0.6mm
Working Distance	20mm	21mm	13.5mm	7mm
Accuracy	0.005" / 0.1mm	0.002" / 0.05mm	0.001" / 0.02mm	0.0005" / 0.01mm
Measuring Range	6mm	3mm	2mm	1mm
Focus range	\pm 18mm	\pm 18mm	\pm 18mm	\pm 18mm
Size (mm)	41.5 \times 122	41.5 \times 122	41.5 \times 122	41.5 \times 122
Net Weight	83 g	83 g	83 g	88 g

787 FG4A 7 @ 84FHE A: @ 6EBF6BC8 25x to 100x

FEATURES

- Stand Microscope is a small size, lightweight and conveniently portable microscope. It is designed to cover the range in between the high-grade, heavily equipped microscopes and the various magnifiers 3x-30x). It can easily, speedily and accurately catch the subject to be examined with its bright and superior resolving power and smooth-working mechanism. This microscope is convenient for measuring the thickness, height or depth of subjects having different levels and for measuring the depth of items like print cylinders, printing plates and other similar applications. The precision made focusing ring, simplifies operation, and the attachable/detachable rubber eyepiece increases the ease in operation. A scale is built into the scale chamber above the focusing ring. The lens barrel of the eyepiece is the visibility adjustment ring. First turn this ring and set it at the position where the scale can be seen clearly. Then turn the focusing ring refocus on the next level. By reading the scale engraved on the focusing ring and the main needle of the lens barrel, depths can be measured with the accuracy of 0.1mm (.004"). This scale can be easily interchanged according to use. Three kinds of scales-standard, for tooling, for printing are available. Stand Microscope is ideal for use in factories, inspection rooms and research laboratories.



LED Microscope

Model No.	P2008-20	P2008-40	P2008-60	P2008-100
Magnification	20X	40X	60X	100X
Field of View	3.30 mmø	2.00mmø	1.09mmø	0.84mmø
Min. Scale Div.	No. 24 = 0.05mm No. 26 = 0.002"	No. 13 = 0.02mm No. 15 = 0.001"	No. 34 = 0.01mm No. 36 = 0.0005"	No. 44 = 0.005mm No. 46 = 0.0005"
Measuring Range	3.0mm	1.6mm	1.0mm	0.8mm
Working Distance	17.0mm	11.7mm	11.7mm	11.6mm
Numerical Aperture	0.11	0.18	0.22	0.22
Focal Distance	19.8mm	14.9mm	9.9mm	9.9mm
Size (mm)	41.5øx122	41.5øx122	41.5øx122	41.5øx122
Net Weight	83 g	83 g	83 g	88 g

POCKET MEASURING MICROSCOPE

FEATURES

- Pocket measuring microscope with reticle. The Reticle is cross hair with horizontal scale. To focus the microscope, hold it so that the notch at the tip of the acrylic cylinder of the microscope faces towards you, place the center of the object lens above the specimen and while tilting the cylinder forward and backward with your eye on the eye-piece lens, fix the cylinder and adjust to the best angle which can give the sharpest image.



Model 2036 without scales

Model No.	P2036-20	P2036-50	P2036-100
Magnification	25X	50X	100X
Field of View	8°	6°	5.7°
Measuring Length	3 mm	2 mm	1 mm
Size (mm)	12.4 x 127	12.4 x 127	12.4 x 127
Net Weight	12 g	13 g	16 g

Model 2036S with scales

Model No.	P2036S-20	P2036S-50
Magnification	25X	50X
Field of View	8°	6°
Measuring Length	3 mm 0.05mm(0-3mm) 0.002"(0-0.12")	2 mm 0.02mm(0-1.6mm) 0.001"(0-0.06")
Size (mm)	12.4 x 127	12.4 x 127
Net Weight	12 g	13 g

SURFACE MICROSCOPE KT-295

FEATURES

- Pocket size microscope in hard leather case. Ideal for inspecting, tracking, and measuring small cracks etc. Can be placed directly on the surface, with adjustable focus and scale division in the lens.
- KT 295-1
Surface Microscope: magnification 10x 21mm; scale division 0.1mm
- KT 295-3
Surface Microscope: magnification 10x25mm; scale division 0.1mm



LED SURFACE MICROSCOPE PM7173L

FEATURES

- Graduated Surface microscope with built-in LED ring light and measuring scale in pocket size complete with hard leather case.
- Ideal for inspecting, tracking, and measuring coating defects such as crack-width, pinholes, scratches, inclusions and other surface imperfections.
- Can be placed directly on the surface, with adjustable focus and scale division / reticle build in the lens.
- Height: 50 mm
- Diameter: 43 mm
- Magnification: 10X
- PM7173L
Surface Microscope: magnification 10x; scale division 0.1mm



SCALE LOUPE 10X SET P2004

FEATURES

- Scale Loupe 10X has precision-constructed achromatic lenses (coated 4 elements, 2 groups), a photo-printed scale and focusing ring.
- Magnification: 10X
- Field of View: 32 mm (1.24 inch)
- Scale Length: 30 mm (1.17 inch)
- Minimum Scale Division: 0.1 mm
- Eye-piece: 20 mm
- Size: 46 x 44 mm
- The contradiction between high resolving power and wide visual field has been completely eliminated from this product so it can provide efficient inspection.
- The P2004 Scale Loupe 10x set combines the KT 295-1 with five of the widely used reticles. The five different kinds of scales, #s 2, 3, 7, 8, & 10 are contained in a plastic box together with a magnifier as a set.



USB DIGITAL MICROSCOPE DM-100

FEATURES

- This high tech while easy to use digital microscope comes with 2Mega true resolution (true and up to 5M by digital), outputs stunning video image, useful for students, collectors, collectors, testers etc to explore the microscopic world. Other outstanding features include 20x-200x magnification (adjustable), measurement function, compatible with Windows and Mac, video and photo capture.
 - Image Sensor: 2 Mega Pixels (interpolated to 5M)
 - Still capture resolution: 2560x2048 (5M), 2000x1600, 1600x1280 (2M), 1280x1024, 1024x960, 1024x768, 800x600, 640x480
 - Video capture resolution: 2560x2048 (5M), 2000x1600, 1600x1280 (2M), 1280x1024, 1024x960, 1024x768, 800x600, 640x480
 - FocusRange: Manual focus from 10mm to 500mm
 - Frame Rate: Max 30f/s under 600 Lus Brightness
 - Magnification Ratio: 20x to 200x
 - Video format: AVI
 - Photo format: JPEG or BMP
 - Light source: 8 LED (adjustable by control wheel)
 - PC interface: USB2.0
 - Operation system: Windows XP/Vista/Win7/8, Mac OS X 10.6 or later
 - OSD language: English, German, Spanish, French, Russian
 - Bundle software: MicroCapture with measurement
- STANDARD DELIVERY**
- Digital Microscope with USB cable
 - Stand
 - Micro Capture Pro software
 - Instruction manual



LED MAGNIFYING LAMP

FEATURES

- Lens material: glass
- Lens size: 5"
- Diopter: 5X /8X /10X / 15X /20X
- Voltage: 110V-120V / 220V-240V
- Light source: T9 22W energy saving circular
- LED lamp
- Standard mount: desktop clamp
- Optional mount: table base, floorstand
- Colour available: white, black, light grey
- ESD safety is available by request



Model No.:SK-A

LED MAGNIFYING LAMP

FEATURES

- Lens material: glass
- Lens size: 5"
- Diopter: 3X /5X /8X /10X
- Voltage: 110V-120V / 220V-240V
- Light source: T9 22W energy saving
- LED clamp
- Standard mount: desktop clamp
- Optional mount: table base, floorstand
- Colour available: white, black, light grey
- ESD safety is available by request



Model No.:SK-B

LINEN TESTER PG7144/PG7141

FEATURES:

- Linen Testers are convenient folding type magnifying glasses for inspecting cloths. They are widely used as portable magnifiers and are available in various models.
- PG7144
Base Size: 14mm
Magnification: 10x
- PG7141
Base Size: 30mm
Magnification: 6x
Packaged in White box, Wax paper wrapped, No inner pouch

DIAMOND LOUPES

FEATURES:

- PG7014A
Field of view: 21mm
Magnification: 10x
Silver, black, gold is acceptable.

FEATURES:

- PG7802
Field of view: 21mm
Magnification: 10x
UV+LED
Silver, black, gold is acceptable

Model No.:
PG7144
PG7141



Model No.:PG7014A



Model No.:PG7802

144 LED FOUR-ZONE MICROSCOPE RING LIGHT

FEATURES

- This is a 144-LED intensity direction adjustable ring light with mounting size up to 2-1/2" (64mm) in diameter. The light ring is consisted of 4 individual portions (4 lighting zones) that can be turned on/off separately. You may use the feature to change lighting directions and obtain the best illumination for your application. The ring light has 2-1/2" (64mm) inside and 4" (100mm) outside diameters. It works with power supplies from a 110-220V and comes with a 1-7/8" (48 mm in diameter) ring adapter. With variable intensity control, it provides cool, even, intense and focused shadow-free illumination. It is an ideal durable cool light source for all stereo microscopes, especially for gemological, coin and gem/jewelry microscopes. This kit comes with one year warranty against manufacturing defects

Features & Specifications :

- 144 bright white LED bulbs
- Lighting direction changeable
- Variable intensity control
- Intense and focused shadow-free illumination
- 100,000 hours of life
- Power input: 110-240V, 50-60HZ, auto switching
- Fits up to 2-1/2" (64mm) mount rings
- Inside diameter of the ring light: 2-1/2" (64mm)
- Outside diameter of the ring light: 4" (100mm)

Packing List :

- One 144-LED Ring Light (B)
- One Control Box
- One Power Cable
- One 48mm Ring Adapte



Model No.:LED-144

72 LED COMPACT FOUR-ZONE MICROSCOPE RING LIGHT

FEATURES

- This is a 72-LED intensity direction adjustable ring light with mounting size up to 2.3" (60mm) in diameter. The light ring consists of 4 individual portions (4 lighting zones) that can be turned on/off separately. You may use the feature to change lighting directions and obtain the best illumination for your application. The ring light has 2.3" (60mm) inside and 4" (102mm) outside diameters. It works with power supplies from a 110-220V and comes with a 1-7/8" (48 mm in diameter) ring adapter. With variable intensity control, it provides cool, even, intense and focused shadow-free illumination. It is an ideal durable cool light source for all stereo microscopes, especially for gemological, coin and gem/jewelry microscopes. This kit comes with one year warranty against manufacturing defects

Features & Specifications :

- 72 bright white LED bulbs
- Lighting direction changeable
- Variable intensity control
- Intense and focused shadow-free illumination
- 100,000 hours of life
- Power input: 110-240V, 50-60HZ, auto switching
- Fits up to 2-1/2" (64mm) mount rings
- Inside diameter of the ring light: 2.3" (60mm)
- Outside diameter of the ring light: 4" (102mm)

Packing List :

- One 72-LED Ring Light (B)
- One Power Cable
- One 48mm Ring Adapter
- Shipping Weight: 3 lbs



Model No.:LED-72

TOOLMAKER MICROSCOPE TM-500

FEATURES

- The Toolmaker's microscope is the perfect microscope for measuring dimensions and angles of various machined metals.
- **Objective Lens:** Includes 2x objective, NA 0.07, WD 0.67. Alternative 5x and 10x objectives are available below.
- **Eyepiece:** Monocular 15x eyepiece, FOV 13mm, inclined 30 degrees with built-in cross-line reticle. Erect image, diopter adjustable. Eyepiece protractor graduation: 360° protractor range. Minimum reading by vernier is 6. Alternative 10x eyepiece available below.
- **Total Magnification:** 30x (Available magnification = 20x, 30x, 50x, 75x, 100x, 150x).
- **Specimen Stage:** 50mm x 50mm (2" x 2") X-Y Travel Stage. Top of X-Y dimensions are 150mm x 150mm. Accuracy: 0.005mm or above per 5mm. Glass window: 83x83mm.
- **Micrometer Heads:** Includes two manual micrometer heads 1mm or 0.025" precision +/-2um, outer diameter of brushing is 18mm / 0.709". Digimatic micrometer heads are available below.
- **Illumination:** LED Transmitted light source, 120v, with adjustable intensity. Reflected illumination with oblique twin-spot LED illuminator, with adjustable intensity.
- **Stand:** Track stand with coarse focusing.



Model No.:TM-500



DIGITAL REFRACTOMETER
HAND REFRACTOMETER
LASER DISTANCE METER
DIGITAL ULTRASONIC CLEANER
DIGITAL TACHOMETER
STROBOSCOPE
LUX METER
MOISTURE METER
DIGITAL THERMOMETER
THERMOMETER AND HYGROMETER
ALL PROBES FOR THERMOMETERS
INFRARED THERMOMETER
ANEMOMETER
SOUND LEVEL METER
DIGITAL SCALE
DIGITAL POCKET SCALE
DIGITAL CRANE SCALE
DIGITAL MEASURING WHEEL
MEASURING WHEEL



DIGITAL REFRACTOMETER

FEATURES:

- Weighing less than 200 grams and compact enough to fit into your pocket, the new range of economic digital hand held refractometers incorporate precise optical picture technology, together with automatic temperature compensation (ATC), ensuring greater accuracy than any other portable refractometer in the market.
- These simple to use, reliable and affordable instruments are available in a wide choice of single and multi-scales. Their versatility makes them suitable for the testing of soft drinks, food, confectionery, soluble oils, detergents, saline solutions, anti-freeze and numerous other materials during the production process.



TECHNICAL SPECIFICATION

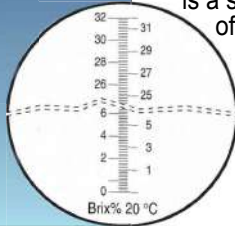
Model No.	Scale	Range	Divisions	Accuracy	Special Function
DR-101	Brix	0-35%	0.1	0.1	
DR-102	Brix	0-35%	0.1	0.1	Zero Check
DR-102L	Brix	0-45%	0.1	0.1	Zero Check
DR-103	Brix Refractive Index	0-35% 1.3330-1.3900	0.1 0.0001	0.1 0.0003	Zero Check
DR-103L	Brix	0-45% 1.3330-1.4098	0.1 0.0001	0.1 0.0003	Zero Check
DR-111	Brix	28-65%	0.1	0.1	Zero Check
DR-112	Brix Refractive Index	28-65% 1.3770-1.4535	0.1 0.0001	0.1 0.0003	
DR-121	Brix	58-92%	0.1	0.1	Zero Check
DR-122	Brix Refractive Index	58-92% 1.4370-1.5090	0.1 0.0001	0.1 0.0003	Zero Check
DR-201	Salinity	0-28%	0.1	0.1	
DR-202	Salinity	0-28%	0.1	0.1	Zero Check
DR-203	Salinity Refractive Index	0-28% 1.3330-1.3900	0.1 0.0001	0.1 0.0003	Zero Check
DR-301	Urine SG	1.000-1.050	0.0001	0.0001	
DR-302	Urine SG	1.000-1.050	0.0001	0.0001	Zero Check
DR-303	Urine SG Serum P Refractive Index	1.000-1.050 0-12 1.3330-1.3900	0.0001 0.1 0.0001	0.0001 0.1 0.0003	Zero Check
DR-401	Mass S/W Vol. AP Brix Oe Salinity KMW	0-35% 0-22% 0-150 0-25	0.1 0.1 1 0.1	0.1 0.1 1 0.1	Zero Check
DR-501	Brix Salinity Refractive Index	0-35% 0-28% 1.3330-1.3900	0.1 0.1 0.0001	0.1 0.1 0.0003	Zero Check
DR-601	G11/12 G13 Cleaning water left Cleaning water left	0-50°C 0-50°C 0-44°C 0-48°C	0.1°C 0.1°C 0.1°C 0.1°C	0.2°C 0.2°C 0.2°C 0.2°C	Zero Check
DR-602	Battery Coolants Cleaning water	1.15-1.3 sg 0-50°C 0-50°C	0.01 sg 0.1°C 0.1°C	0.02 sg 0.2°C 0.2°C	



REF-113ATC

REF-113ATC, Hand Refractometer, 0-32% Brix/ATC

Designed to measure sugar content. Just a few sample drops are enough to determine the percentage of dissolved solid, according to the principle for which the refraction index of a solid dissolved is proportionate to its concentration. This is a simple and accurate method, extremely useful for controlling the quality of fruit, jam, vegetables, tomatoes, beet sugar, canned foods, etc., in the field or in the factory. This new revolutionary instrument allows to measure without problems due to temp. changes, eliminating the inconvenient of temperature compensation. until now indispensable for refractometric measuring operations.



Model	Range	Precision
REF-113ATC	0-32% Brix/ATC (10°C-30°C)	0.2%

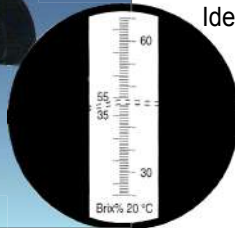


REF-104

REF-104, Hand Refractometer, 28-62% Brix

Ideal for concentrated fruit juices and canned foods that use sugar infusion, and half-scale concentration samples.

In the bright/blue field, the boundary line is clearly visible with good contrast.



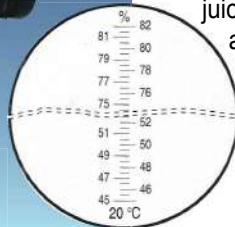
Model	Range	Precision
REF-104	28-62% Brix/ATC	0.2%



REF-105

REF-105, Hand Refractometer, 45-82% Brix

Standard refractometer used to measure the sugar content of concentrated fruit juices, condensed milk, liquid sugar and marmalade, and for very dense products, jams, syrups, concentrated substances, glucose, treacle.



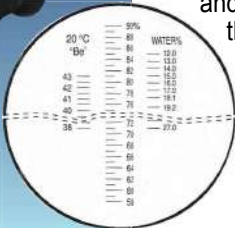
Model	Range	Precision
REF-105	45-82% Brix	0.5%



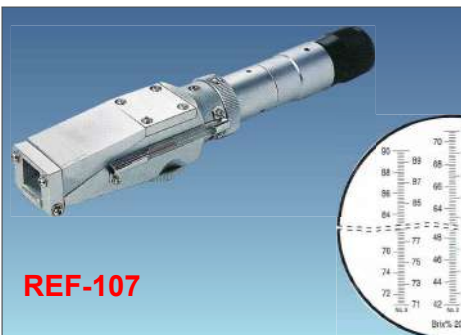
REF-116

REF-116, Hand Refractometer, 58-90% Brix

Designed to measure the common indexes of HONEY: high sugar content, Barne and water. It determines the percentage of water in the honey by measuring the refraction index. It permits the determination of the collecting period, conservation and commercial value. Useful for preparing the spring mixtures of the bees.



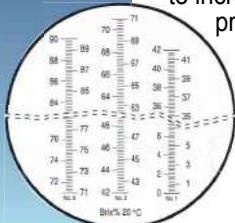
Model	Range	Precision
REF-116	58-90% Brix	1% Brix
	38°Bé-43°Bé	0.5°Bé
	12-27% water	1% water



REF-107

REF-107, Hand Refractometer, 0-90% Brix

It precisely determines the sugar content of each solution; suitable for all products, both diluted & concentrated. It adopts a light transmission system to increase the contrast of the boundary line in the field of vision. The Amici prism, inside situated, has been made to eliminate colour, so as to obtain a clear boundary line in the field of vision. Thanks to the special thermometer with which it is equipped, the measurements can be easily corrected by the relatives tables.



Model	Water percentage	Precision
REF-107	0-90% Brix	0.2%
	3 Ranges: 0-42%; 42-71%; 71-90%	

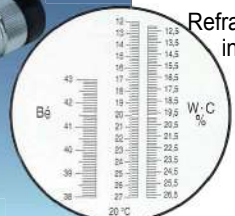


REF-117

REF-117, Hand Refractometer, 12-27% Brix

Refractometer for honey, for quickly determination of the percentage of water in the honey and relevant Baumé degree.

Manual temperature compensation between 20°C and 40°C.



Model	Water percentage	Precision
REF-117	12-27%	0.2%
	Baumé range	
	38°Bé-43°Bé	1°

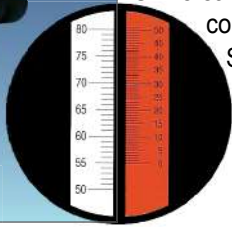


REF-108

REF-108, Hand Refractometer, 0-80% Brix

Universal broad-scale refractometer, able to precisely determine the sugar content of all kinds of products.

Selectionable scales between 0 and 80° Brix.



Model	Range	Precision
REF-108	0-80% Brix	1%

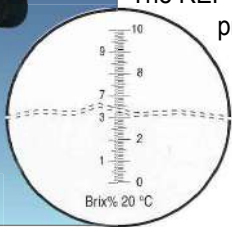


REF-111

REF-111, Hand Refractometer, 0-10% Brix

The REF-111 model features an enlarged Brix scale making possible high-precision measurements.

It can be used to measure the Brix degree in fruit juices, emulsion oils, lubricating oils and all low-concentration substances, with Brix degree of 10% or lower.



Model	Range	Precision
REF-111	0-10% Brix	0.1%

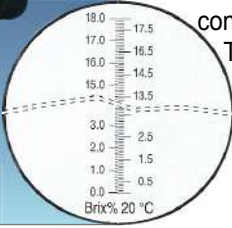


REF-112

REF-112, Hand Refractometer, 0-18% Brix

The model with high-resolution Brix scale has been developed for low concentrations.

The scale can measure the Brix degree in fruit juices, soft drinks, must wine and various types of drinks, lubricating oils, emulsion oils, tomato, etc.



Model	Range	Precision
REF-112	0-18% Brix	0.1%



REF-113

REF-113, Hand Refractometer, 0-32% Brix

Designed to measure sugar content. Just a few sample drops are enough to determine the percentage of dissolved solid: according to the principle for which the refraction index of a solid dissolved is proportionate to its concentration. This is a simple and accurate method, extremely useful for controlling the quality of fruit, jam, vegetables, tomatoes, beet sugar, canned foods, etc., in the field or in the factory.



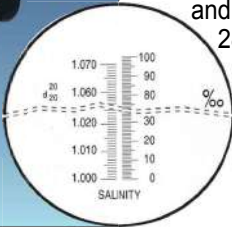
Model	Range	Precision
REF-113	0-32% Brix	0.2%



REF-212 Salinity

REF-212, Hand Refractometer, 0-28% Brix Salinity

Refractometer able to determine the percentage of sodium chloride in sea water and in prepared-food solutions. with salt concentration up to 28%. meaning 28g of salt in 100g of solution. Suitable for controlling refrigerating brines. for food treatment liquids used in the processing industry. for brackish and sea water. Instrument calibrated to the refraction index of sodium chloride.



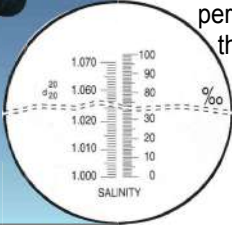
Model	Range	Precision
REF-212	0-28% Brix salinity	0.2%



REF-211 Salinity

REF-211, Hand Refractometer, 0-100‰ Brix Salinity

It measures low-concentration salt content. It adopts scale with unit of salinity per thousand (‰). The refractometer is easy to use and quickly provides the direct measurement of saline density and the specific weight of sea water.

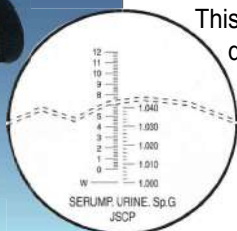


Model	Range	Precision
REF-211	0-100‰	1‰
	1000-1070 sg	0.001 sg



REF-311, Hand Refractometer, 0-12g/dl Proteins & Urine

This high-precision and widely-used model has been designed to quickly determine the proteins in blood serum and the specific weight of urine; indispensable for all chemical-clinical test laboratories



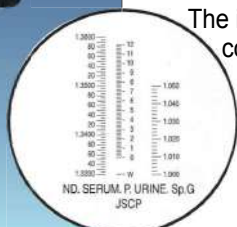
Model	Range	Precision
REF-311	0-12g/dl	0.2g/dl
	1000-1040 sg	0.002 sg



REF-312, Hand Refractometer, 0-12g/dl Proteins & Urine

Widely used in chemical-clinical test laboratories to determine the proteins in blood serum and the specific weight of urine.

The instrument also features refraction index scale (Nd) to determine the concentration of test reagent solutions, and calibration line (Wt) for instrument control.

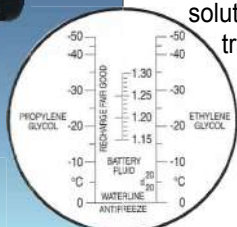


Model	Range	Precision
REF-312	0-12g/dl	0.2g/dl
	1000-1050 sg	0.002 sg
	1.3330-13600 RI	0.0005 RI



REF-414, Hand Refractometer, Measuring The Freezing Point

It permits measuring the freezing point of glycol ethylene and propylene solutions. Especially suitable for controlling lead battery charges & concentration of heat exchange liquid in cooling systems.

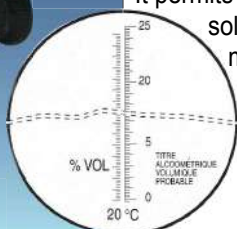


Model	Range	Precision
REF-414	0°C/-50°C	5°C
	1.15-1.30 sg	0.01 sg



REF-513, Hand Refractometer, Alcohol

It permits measuring the approximate value of the amount of alcohol in aqueous solutions and the sugar content of grape juice. The scale directly shows measurement results.

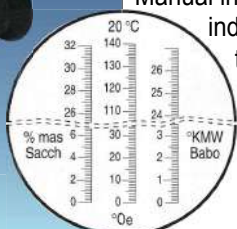


Model	Range	Precision
REF-513	0-25%	0.2%



REF-711, Hand Refractometer, 0-26% Babo

Manual instrument indispensable for all grape growers and wine-making industries. It features 3 measurement scales (Brix, Babo, Oechsle), for the quick sight determination of the sugar content of grapes and musts.

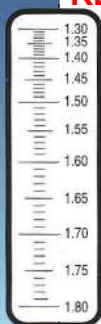


Model	Range	Precision
REF-711	0-26% Babo	0.2%
	0-140 °Oechsle	1°
	0-32% Brix/ATC	0.2%



REF-601A, Hand Refractometer, Gemology

Used to measure the refraction index in gemology. It features inner protection for the light, to obtain enough lighting for measuring, and polariser filter.



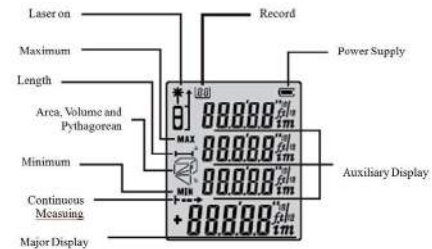
Model	Range	Precision
REF-601A	1.30-1.81	0.01

LASER DISTANCE METER

FEATURES:

- This digital laser distance meter is highly accurate measuring tool for fast, easy to operation
- Measure distance from 0.1 to 100m with accuracy of +/-2mm
- The digital Laser distance meter is intend for: Measuring distance, lengths, widths, heights and clearances.
- The pythagore an Theorem mode to take measurement in difficult to measure situations
- Calculating areas and volumes
- Use in outdoor and indoor measurement
- LCD display easy to read, and the back light are clearly visible indoor and outdoor, especially in the dark
- The automic power off fuction turns the tool off after 150s of inactivity for increased battery life

Note: Use a target plate to increase the measurement range during daylight or if the target has poor reflection properties



Display

TECHNICAL SPECIFICATION

Model No.	LDM-40	LDM-60	LDM-80	LDM-100
Working Range	40m	60m	80m	100m
Distance measurement precision	±2mm			
Measurement unit options	m/in/ft			
Continuous measurement function	yes			
Outdoor target reflection board	no			
Area measurement function	yes			
Volume measurement function	yes			
Pythagorean proposition measurement function	Full mode			
Add and subtract measurement function	yes			
Min/Max value	yes			
Max storage	30 units			
Automatic backlight	yes			
Buttons/Keys sound	yes			
Laser level	II			
Laser type	635nm, <1mW			
Automatically cut off laser	20s			
Automatic shutdown	150S			
Storage temperature	-20°C-60°C			
Working temperature	0°C -40°C			
Storage humidity	RH85%			
Battery	1.5V 2*AAA			
Battery life	8000 times for single measurement			
Weight (including battery)	110g			
Dimension	112*50*25mm			

DIGITAL ULTRASONIC CLEANER UA

FEATURES

- Industrial Grade Model
- Sweep Function
- Degas Function
- Normal Frequency Function
- Operator Temperature Controls (knob)
- Digital Ultrasonic Timer
- Comes with Free Basket
- Comes with Free Cover
- Comes with Side Handle



TECHNICAL SPECIFICATION

Model No.	UA-1	UA-2	UA-3	UA-6	UA-10	UA-15	UA-22	UA-30
Power	70W	70W	120W	180W	240W	360W	480W	600W
Capacity	1.3L	2L	3.2L	6.5L	10L	15L	22L	30L
Tank dimension	150*135*65 mm	150*135*100 mm	240*135*100 mm	300*150*150 mm	300*240*150 mm	330*300*150 mm	500*300*150 mm	500*300*200 mm
Functions	digital timing, heating							
Remarks	CE, Rosh, FCC Certificates							

DIGITAL TACHOMETER DT2234E

FEATURES

- Display: 5-digit LCD display, character height 18mm
- Test range: 2.5 ~ 99999 RPM (r/min)
- Resolution: 0.1 RPM (0.5 ~ 999.9 RPM)
1 RPM (above 1000 RPM)
- Measurement accuracy: $\pm(0.05\%+1\text{digit})$
- Sampling time: 0.6 seconds (above 100 RPM)
- Range selection: automatic switching
- Memory function: automatically memorize the maximum, minimum, last value and 500 instantaneous values.
- Time base: quartz crystal
- Effective distance: 50 ~ 500mm
- Power source: 3 x 1.5V AA UM-4 batteries
- Power consumption: about 35mA
- Operating temperature: 0 ~ 40°C
- Size: 160 x 74 x 37mm
- Weight: 180g (including battery)
- Accessories: 1 portable box
3 reflective tapes (190mm x 11mm) 1 operation manual



DIGITAL TACHOMETER SM2235A

FEATURES

- 5 digits 18mm (0.6") White backlight LCD
- Accuracy: $\pm(0.05\%+1\text{ digit})$ of reading
- Sampling Time: 0.5sec(over 120RPM)
- Range Select: Auto-Ranging
- Memory: Max. value, Min. value, Last value
Can store 96s data
- Power Consumption: Approx 45mA
- Time Base: 6MHz Quartz crystal
- Time Base Accuracy: 10x10-6(0~50°C)
- Measuring Range:
- CONTACT TACH: 0.5~19,999RPM
- SURFACE SPEED: 0.05~1,999,9m/min
- Resolution:
- CONTACT TACH:
- 0.1RPM From:(0.5~999.9RPM)
- 1RPM From:(over 1,000RPM)
- SURFACE SPEED:
- 0.01m/min(0.05~99.99m/min)
- 0.1m/min(over 100m/min)
- Battery: 4x1.5V AA Size Battery



PHOTO/CONTACT TACHOMETER DT2236E

FEATURES

- Display: 5-digit large-screen LCD display, character height 18mm
- Measuring range: 2.5 ~ 99999RPM (r/min) non-contact speed
- 0.5 ~ 19999RPM (r/min) contact speed
- 0.05 ~ 1999.9m/min (m/min) contact surface speed
- Resolution: Non-contact speed: 0.1RPM (r/min) (2.5 ~ 999.9RPM)
1RPM (r/min) (above 1000RPM)
- Contact speed: 0.1RPM (r/min) (0.5 ~ 999.9RPM)
1RPM (r/min) (above 1000RPM)
- Contact surface speed: 0.01m/min (m/min) (0.05 ~ 99.99m/min)
0.1m/min (m/min) (above 100m/min)
- Measurement accuracy: $\pm(0.05\%+1 \text{ digit})$
- Sampling time: 0.6 seconds (above 100 rpm)
- Range selection: automatic switching
- Time base: 6MHz quartz crystal vibrator
- Effective distance: 50mm ~ 500mm (photoelectric type)
- Size: 155x70x35mm (without contact accessories)
- Power supply: 3 x 1.5V AA batteries



STROBOSCOPE 2240B

FEATURES

- This tachometer is used the microcomputer (CPU) technique, photoelectrical technique and LCD for one instrument combine PHOTO TACH & MOTION & SURFACE MAR.
- Large LCD display with backlight
- Digital control adjust flash frequency
- Low power consumption
- Measure range: 60~39,999RPM
- Coarse/Fine adjust amplitude:
 - <1,000RPM Coarse adjust: ± 10 RPM
 - Fine adjust: ± 0.1 RPM
 - $\geq 1,000$ RPM Coarse adjust: ± 100 RPM
 - Fine adjust: ± 1 RPM
- Accuracy: $\pm 0.05\%$
- Resolution: <1,000RPM: 0.1RPM
 $\geq 1,000$ RPM: 1RPM
- 10 commonly functions for rotational speed storage, improves the efficiency of measurement.
- Battery: 4x1.5V AA battery



STROBOSCOPE 2350B

Model:2350B-1 (50~12000FPM)

Model:2350B-2 (50~40000FPM)

Model:2350B-3 (50~20000FPM)

Model:2350B-4 (50~30000FPM)

Model:2350B-5 (50~2000FPM)

FEATURES

- Measurement Range :
 - A : 50~12000FPM B : 50~40000 FPM C : 50~20000 FPM D : 50~30000
 - FP E : 50~2000 FPM (fit for print and textile)
- Display : 5 10mmLCD
- Accaracy : $\pm (0.05\%n+1d)$
- Resolution : 0.1 FPM (Less 1000 FPM) 1 FPM (Over 1000 FPM)
- Sampling time : 0.3second
- 2 ranges : H, L (High,Low)
- Flash adjust : Coarse adjustment, fine adjustment , $\times 2$ and $\div 2$ for fast check
- Triggering Mode : Interior/Exterior
- Temperature : 0~40°C
- Humidity : Less than 85%RH



LUX METER 1010B

FEATURES

- Display: 3 1/2 digits 18mm LCD
- Measuring Range: 1Lux ~ 50 , 000Lux
Over-input: indication of "1"
- Accuracy: $\pm(4\% + 10\text{digits})$
- $\pm(5\% + 10\text{digits})$ as over 10,000Lux
- Temperature Characteristic: $\pm 0.1\%^\circ\text{C}$
- Sampling Time: 0.4second
- Repeatability: $\pm 2\%$
- Dimensions: 118x70x29mm



DIGITAL LUX METER 1010BS

FEATURES

- 3 1/2 digits 18mm LCD
- Range: 1~100,000Lux
- Accuracy: $\leq 10,000\text{Lux}$, $\pm(4\% \text{rdg} + 10\text{digit})$
 $> 10,000\text{Lux}$, $\pm(5\% \text{rdg} + 10\text{digit})$
- Resolution: 1Lux
- Repeatability: $\pm 2\%$
- Temperature Characteristic: $\pm 0.1\%^\circ\text{C}$
- Sampling Time: 0.5 second
- Photo detector: one silicon photo diode with fliter
- Dimensions: 130Lx72Wx30H(mm)
- Over-input: Indication of "1"



DIGITAL LUX METER 1330B

FEATURES

- 3 1/2 digits 18mm LCD
- Range: 0.1~200,000Lux/0.01~20,000FC
- Over-input: Indication of "1"
- Accuracy: $\leq 20,000\text{Lux}$, $\pm(3\% \text{rdg} + 10\text{digit})$
 $> 20,000\text{Lux}$, $\pm(5\% \text{rdg} + 10\text{digit})$
- Resolution: 0.1Lux
- Repeatability: $\pm 2\%$
- Temperature Characteristic: $\pm 0.1\%^\circ\text{C}$
- Sampling Time: 0.5second
- Photo detector: one silicon photo diode with fliter
- Dimensions: 160Lx79Wx43H(mm)
- Date hold, peak hold
- Display in Lux and FC switchable



UNIVERSAL MOISTURE METER 7825P

FEATURES

- Applicable of wood fiber materials, wooden articles, Chinese traditional medicine, tobacco, cotton paper, building, soil and other fibre materials.
- Meaning: Pin type
- Specifications:
wood over 150 species Building moisture: 0-50%
Measuring range: 0-80%
Resolution: 0.1
Display: LCD display
Accuracy: $\pm(0.5\%n+0.1)$
Power supply: 4x1.5V AAA (UM-4) battery
Battery indicator: low battery indicator
Dimensions: 165x62x26mm
Weight (not including probe):119g
- Optional accessories: RS-232C cable & software:
USB adaptor for RS-232C
Bluetooth interface



UNIVERSAL MOISTURE METER 7825PS

FEATURES

- Applicable of wood fiber materials, wooden articles, Chinese traditional medicine, tobacco, cotton paper, building, soil and other fibre materials.
- Meaning: pin & search type
- Specifications: wood over 150 species
Building moisture: 0-50%
Measuring range: 0-80%
Resolution: 0.1
Display: LCD display
Accuracy: $\pm(0.5\%n+0.1)$
Power supply: 4x1.5V AAA (UM-4) battery
Battery indicator: low battery indicator
Dimensions: 165x62x26mm
Weight (not including probe):175g
- Optional accessories: RS-232C cable & software:
1.USB adaptor for RS-232C
2. Bluetooth interface



PAPER MOISTURE METER MD916

FEATURES

- It is used the microcomputer(CPU) technique to measure quickly, accurate.
- Digital intelligent MCU paper moisture meter can work on 4 types paper(carton, copperplate paper, writing paper, newsprint) through the spring contact.
- precise measuring.
- Digital large size LCD display
 - Test Range: 2%~40%
 - Accuracy: 0.5%
 - Date hold and can hold value
 - Low power symbol automatic indicating.
 - Battery: one 9V battery
 - Dimension: 130Lx64Wx32H(mm)



GRAIN MOISTURE METER MD7822

FEATURES

- Adoption of CPU makes the measurement more accurate. Temperature self-compensation. A big screen LCD with back lighting to ensure the reading is clear and free from parallax. Special energy saving backlight control. Grains that can be tested with the meter: wheat, paddy, rice and corn.
- Moisture measurement range: 2%~30%
- Resolution: 0.5%
- Temperature measurement range: -10~60°C(14~140°F)
Maximum error: $\pm 2^{\circ}\text{C}(\pm 4^{\circ}\text{F})$
- Resolution: 1°C(2°F)
- Ambient temperature: -10~40°C(14~104°F)
- Ambient humidity: 0~70%Rh
- Date hold and can hold value.
- Low power symbol automatic indicating. Battery: 4x1.5V AA battery
- Dimensions:
174Lx73Wx38Hmm (for main unit)
365Lx43Wx25Hmm (for measurement probe)



WOOD MOISTURE METER MD812

FEATURES

- Digital large size LCD display
- Test Range: 5%~40%
- Accuracy: 1%
- Date hold and can hold value
- Battery: one 9V battery
- Low power indicating.
- Can change the testing sensor pins conveniently dispense with the plastic.
- Dimension: 130Lx64Wx32H(mm)



WOOD MOISTURE METER MD912

FEATURES

- Double color pocket size meter, autocorrect environmental temperature, and could select 4 species of the wood test.
- Measuring Range: 2%~60%
- Resolution: 0.5%
- Date hold and can hold value.
- Low power indicating
- Can change the testing sensor pins conveniently dispense with the plastic.
- Battery: one 9V battery
- Dimension: 130Lx64Wx32H(mm)



DIGITAL THERMOMETER DM6801B

FEATURES

- 3 1/2 digit 18mm LCD
- Range: -50°C~1300°C -58°F~1999°F
- HOLD,°F/°C
- Measurement is selected by pressing
- Dimensions:160L x 79W x 43H(mm)

Resolution	Range	Accuracy
0.1°C	-50°C~199.9°C	±(0.3%+1°C)
0.1°F	-58°F~199.9°F	±(0.3%+1°F)
1°C	-50°C~1300°C	±(0.3%+2°C)
1°F	-50°F~1999°F	±(0.3%+2°F)



DIGITAL THERMOMETER DM6802B (TWO K-TYPE)

FEATURES

- 3 1/2 digit 18mm LCD
- Range: -50°C~1300°C -58°F~1999°F
- HOLD,°F/°C
- Measurement is selected by pressing
- Dimensions:160L x 79W x 43H(mm)

Resolution	Range	Accuracy
1°C	-50°C~1200°C	±(0.3%+2°C)
	1200°C~1300°C	±(0.6%+2°C)
1°F	-58°F~1200°F	±(0.3%+2°F)
	1200°F~1999°F	±(0.6%+2°F)



TIME THERMOMETERS & HYGROMETER CTH-608

FEATURES

- Read indoor temperatures-hygrometer from inside your house. Large, easy-to-read LCD screen allows you to see the results even in bright sunlight. Unit runs off 1.5VDC AAA batteries.

Features

- Click function display of "hour", "minute", and "AM/PM", Time format switch able (12hours format or 24 hours format)
- Temperature measuring range: -10~+60 °C (14~140°F)
- Precision: ±1°C (±1.8°F)
- Resolution: 0.1°C (0.1°F)
- Humidity measuring ranges:20%RH to 95% RH(Display between 20%RH~99%RH) Resolution:1% precision: ±8%RH
- Memorization of maximum/minimum temperature and maximum/minimum humidity



DIGITAL THERMOMETER AND HYGROMETER CTH-609

FEATURES

- Read indoor temperatures-hygrometer from inside your house. Large, easy-to-read LCD screen allows you to see the results even in bright sunlight. Unit runs off 1.5VDC AAA batteries.
- Features**
- Click function display of "hour", "minute", and "AM/PM", Time format switch able (12hours format or 24 hours format)
- Temperature measuring range:
 Inside temperature: $-10\sim+60^{\circ}\text{C}$ ($14\sim+140^{\circ}\text{F}$)
 Outside temperature: $-50\sim+70^{\circ}\text{C}$ ($-58\sim+158^{\circ}\text{F}$)
- Precision: $\pm 1^{\circ}\text{C}$ ($\pm 1.8^{\circ}\text{F}$)
 Resolution: 0.1°C (0.1°F)
 Humidity measuring ranges: $20\%\text{RH}\sim 95\%\text{RH}$ (Display between $20\%\text{RH}\sim 99\%\text{RH}$)
- Resolution: 1% Precision: $\pm 8\%\text{RH}$



HUMIDITY & TEMPERATURE METER HT-200

FEATURES

- Temperature range : $-10^{\circ}\text{C} \sim 50^{\circ}\text{C}$ ($-30^{\circ}\text{C} \sim 1000^{\circ}\text{C}$ K-type)
- Accuracy of temperature : $\pm 1^{\circ}\text{C}$ or $\pm 1.8^{\circ}\text{F}$
- Humidity range : $5\%\text{RH} \sim 98\%\text{RH}$
- Accuracy of humidity : $\pm 3\%$ ($30-95\%$); $\pm 5\%$ ($10-30\%$)
- $^{\circ}\text{C}/^{\circ}\text{F}$ selection
- Auto /Manual power shut off
- Low battery indication
- Data hold
- Temperature resolution : 0.1°C
- Humidity resolution : $0.1\%\text{RH}$
- Sampling rate : 2.5times/sec
- Max/ Min function
- K-type the mocouple temperature measuring
- Large LCD temperature & humidity dual display
- Packing Method : Gift Box+PP box
- Power : 9V Battery
- Unit size : $160*70*30\text{mm}$
- Standard Quantity Per Carton : 20PCS
- Standard Carton Size : $66.9*45.8*30.7\text{CM}$
- Standard Carton Gross Weight : 14.2KG



ALL PROBES FOR DIGITAL THERMOMETERS



TP-01



TP-02



TP-03



TP-04



NR-160



LHD-189

TECHNICAL SPECIFICATION

Model No.	Temperature Range	Hot response time	Application
TP-01	-50~200°C	< 5 seconds	Suitable for quickly measuring of air and gas, not suitable for liquid measuring.
TP-02	-50~400°C	< 15 seconds	cable 100cm pin 8cm Suitable for measuring the temperature of liquid and gel.
TP-03	-50~400°C	< 5 seconds	cable 100cm pin 15cm Suitable for quickly measuring of air and gas, not suitable for liquid measuring.
TP-04	-50~400°C	< 5 seconds	cable 120cm pin 16cm Suitable for measuring the temperature of smaller flat surface and crooked surface.
NR-160	-50~400°C	< 5 seconds	cable 150cm Suitable for measuring the temperature of smaller flat surface and crooked surface.
LHD-189	0°C~1300°C	20~23 seconds	Dia8mm*100cm Suitable for measuring temperature of liquid, vapor, gas, and also can measure the surface temperature of solid.

INFRARED THERMOMETER IR300

FEATURES

- Temperature range : -50 ~ 380°C (-58~716F)
- Accuracy : ±1.5% or ±1.5C
- Repeatability : ±1% or ±1C
- Distance Spot Ratio : 12:1
- Emissivity : 0.95 preset
- Resolution : 0.1C/ F
- Response Time : 500ms
- Wavelength : 8-14μm
- C/F Selection
- Data Hold function
- Laser Target Pointer selection
- Backlight ON/OFF selection
- Auto Power Shut Off
- Ganarantee: 12 months
- Power supply : 9V battery
- Weight : 147.5g (Including battery)
- Dimension : 153*101*43mm
- Packing Method : Blister+Card



INFRARED THERMOMETER IR550

FEATURES

- Temperature range : -50 ~ 550°C (-58~1022°F)
- Accuracy : ±1.5% or ±1.5°C
- Repeatability : ±1% or ±1°C
- Distance Spot Ratio : 12:1
- Emissivity : 0.95 preset
- Resolution : 0.1°C/°F
- Response Time : 500ms
- Wavelength : 8-14μm
- °C/°F Selection
- Data Hold function
- Laser Target Pointer selection
- Backlight ON/OFF selection
- Auto Power Shut Off
- Power supply : 9V battery
- Weight : 147.5g (Including battery)
- Dimension : 153*101*43mm
- Packing Method : Blister+Card



INFRARED THERMOMETER IR700

FEATURES

- Temperature range : -50 ~ 700°C (-58~1292°F)
- Accuracy : ±1.5% or ±1.5°C
- Repeatability : ±1% or ±1°C
- Distance Spot Ratio : 12:1
- Emissivity : 0.1~1.00 adjustable
- Resolution : 0.1°C/°F
- Response Time : 500ms
- Wavelength : 8-14μm
- MAX/MIN/AVG/DIF reading
- High/Low Temperature alarm setup
- Data Store/Recall Function
- °C/°F Selection
- Data Hold function
- Laser Target Pointer selection
- Backlight ON/OFF selection
- Auto Power Shut Off
- Power supply : 9V battery
- Weight : 210g (Including battery)



INFRARED THERMOMETER IR1150

FEATURES:

- Temperature range : -32 ~ 1150°C (-26~2102°F)
- Accuracy : ±1.5% or ±1.5°C
- Repeatability : ±1% or ±1°C
- Distance Spot Ratio : 20:1
- Emissivity : 0.1~1.00 adjustable
- Resolution : 0.1°C/°F
- Response Time : 500ms
- Wavelength : 8-14μm
- MAX/MIN/AVG/DIF reading
- High/Low Temperature alarm setup
- Data Store/Recall Function
- °C/°F Selection
- Data Hold function
- Laser Target Pointer selection
- Backlight ON/OFF selection
- Auto Power Shut Off
- Power supply : 9V battery
- Dimension : 200*155*59mm



INFRARED THERMOMETER IR1350

FEATURES:

- Temperature range : -18 ~ 1350°C (0~2462°F)
- Accuracy : ±1.5% or ±1.5°C
- Repeatability : ±1% or ±1°C
- Distance Spot Ratio : 50:1
- Emissivity : 0.1~1.00 adjustable
- Resolution : 0.1°C/°F
- Response Time : 500ms
- Wavelength : 8-14μm
- MAX/MIN/AVG/DIF reading
- High/Low Temperature alarm setup
- Data Store/Recall Function
- °C/°F Selection
- Data Hold function
- Laser Target Pointer selection
- Backlight ON/OFF selection
- Auto Power Shut Off
- Power supply : 9V battery
- Dimension : 200*155*59mm



INFRARED THERMOMETER IR1650

FEATURES:

- Temperature range : -18 ~ 1650°C (0~3002°F)
- Accuracy : ±1.5% or ±1.5°C
- Repeatability : ±1% or ±1°C
- Distance Spot Ratio : 50:1
- Emissivity : 0.1~1.00 adjustable
- Resolution : 0.1°C/°F
- Response Time : 500ms
- Wavelength : 8-14μm
- MAX/MIN/AVG/DIF reading
- High/Low Temperature alarm setup
- Data Store/Recall Function
- °C/°F Selection
- Data Hold function
- Laser Target Pointer selection
- Backlight ON/OFF selection
- Auto Power Shut Off
- Power supply : 9V battery
- Dimension : 200*155*59mm



INFRARED THERMOMETER IR2200

FEATURES:

- Temperature range : 200 to 2200°C
- Accuracy : ±1.5% or ±1.5°C
- Repeatability : ±1% or ±1°C
- Distance Spot Ratio : 80:1
- Emissivity : 0.1~1.00 adjustable
- Resolution : 0.1°C/°F
- Response Time : 500ms
- Wavelength : 8-14μm
- MAX/MIN/AVG/DIF reading
- High/Low Temperature alarm setup
- 100 data Store/Recall Function
- °C/°F Selection
- Data Hold function
- Laser Target Pointer selection
- Backlight ON/OFF selection
- Auto Power Shut Off
- RS232 interface;
- Analyzing software



ANEMOMETER AM-4836V

FEATURES:

- Anemometer is widely used in data collection for boiler, refrigeration industry, ventilation duct, environment monitor, navigation measurement, weather forecast, collection of the weather datum for outdoor busywork and fire department.
- Used to measure air velocity, wind speed, temperature, etc.
- Multifunctional. the measurement unit can be selected according to different requirements.
- Maximum value data hold function.
- DATA HOLD function for storing 24 groups of data.
- Low-friction ball-bearing design allows free vane movement.
- Separate type design, convenient to measure.
- Automatic Power off, 0-9 minutes set by users.
- Use RS-232 data output to connect with PC.
- Provide Bluetooth data output choice.



SOUND LEVEL METER SL264

FEATURES:

- Description
- Digital Display with Dynamic Graph, Auto / Manual Range ,Max Hold, F/ S Response, A/ C Weighting, DC/AC Output ,Standard: IEC651 Type2, ANSIS1.4Type2

Measuring Range	30~130dBA 35~130dBC
Accuracy	±1.5dB
Frequency Range	31.5HZ-8.5KHZ
Linearity Range	50dB
AC/DC Output	YES
Auto Power Shut Off	YES
Low Battery Indication	YES
Over Range Indication	YES
LCD Digit	5 Digits
Time Weighting Selection	Fast/Slow
Microphone	1/2 Inch Electret Condenser
Frequency Weighting	YES
Max Hold Function	YES
Power	1.5V AA * 4 PCS
Resolution	0.1dB
Sampling Frequency	2 times/sec



DIGITAL SOUND LEVEL METER SL260

FEATURES:

- Multi-functional and with 30~130dB wide range
- Built-in calibration signal of 94dB at 1kHz (sinusoidal)
- 4 measurement parameters
Lp (sound level)
Leq (equivalent continuous A sound level)
Lmax (maximum sound level)
LN (percent of all readings over alarm value set)
- Permits 'A', 'C', or 'Flat' weighting choices and Slow / Fast response time
- 30 memory groups of measurement results and measuring conditions
- Gathered data in meter can be saved, retrieved and deleted and downloaded or transfer to computer directly plus it can also be exported to MS excel
- Adjustable alarm set and an LED alarm output
- 0-1.3V, 10mV/dB DC output
- Auto range selection
- Delivers ultra accurate reading with no guessing errors with high resolution
- Instant, easy to read, legibly written results indicating a specific value
- Adjustable auto power off that can be changed to any value between 1-9min and can also be manually turned off anytime
- CE Marking, Conforms with all the essential health and safety standards set out by the European Directives
- IEC651 Type 2, ANSI 1.4 Type 2 compliant

TECHNICAL SPECIFICATION

- PC interface: Bluetooth + CD Software
- Support WIN 8
- Function: Lp, Leq, Lmax, LN.
- Parameters measured: Lp, Leq, Lmax, LN.
- Measurement range:
Lp : 30~130dB (A) , 35~130dB (C) , 35~130dB (F)
Leq : 30~130dB (10s, 1m, 5m, 10m, 15m, 30m, 1h, 8h, 24h interval)
LN. : 0~100%
- Resolution: 0.1dB
- Accuracy: ±1dB
- Frequency range: 20.0 ~ 12,500Hz
- Frequency weighting: A, C and F (Flat)
- Built-in calibration signals: 94dB at 1kHz (sinusoidal)
- Memory: 30 groups max
- Time weighting: FAST 125mS , SLOW: 1 sec.
- DC output: 0~1.3V, 10mv/dB
- Microphone: 0.5" Electret condenser microphone
- Display: 14mm (0.55") LCD Screen with backlight
- Built-in battery condition indicator
- Alarm: electron, adjustable, 30~130dB set, LED and optional relay contact (NC) output
- Power off: Manual or adjustable Auto Power off time
- Power supply: 4 x 1.5v AAA (UM-4 battery) or External 6V DC 100mA (not included)
- Size: 236 x 63 x 26 mm
- Weight: 137g (excluding batteries)



STANDARD DELIVERY

- 1 x Sound Level Meter
- 1 x CD Software
- 1 x Bluetooth
- 1 x Windscreen / Sponge Ball
- 1 x Shock Absorbent Carrying Case
- 1 x English Manual
- 1x Standard Packaging Box

DIGITAL SCALE

MODEL NO.: POT-50

FEATURES:

- Measuring range: 0 - 50 kg.
- Resolution: 0.005 kg (measuring range 0 - 10 kg), 0.01kg (measuring range 10 - 50 kg).
- Kg/lbs conversion.
- Illuminated LCD display.
- Automatic switch-off.
- Reset.
- Automatic hold function.
- Material: Stainless Steel & ABS Plastic
- Size: 110x65x32mm
- Power supply: 2 * AAA batteries (not included)



DIGITAL POCKET SCALE

FEATURES:

- Pocket Scale designed with a stainless steel platform and a protective flip cover, this pocket scale is a lightweight.
- Pocket Scale have easy touch buttons, large size digits and stark contrast LCD blue backlit display, makes it easy to read in all light conditions.
- Pocket Scale Featuring 4 different weight modes: g / oz / ozt / dwt for easy weight translations, tare function for net determination and a 60 second auto shut off to preserve battery life



MODEL NO.	POC-100	POC-200	POC-300	POC-500	POC-1000
Weighing range (max)	100 g	200 g	300 g	500 g	1000 g
Readability (d)	0.01g	0.01g	0.01g	0.01g	0.1g
Weighing Units	g/ct/dwt/gn/oz/tl/ozt				
Weighing plate [mm]	75x65				
Weight (net)	150 g				

DIGITAL CRANE SCALE

FEATURES:

- Rugged construction with cast aluminum housing
- Convenient 360°swivel shackle & hook
- Low voltage indicator.
- Measures : kg, lb
- Building in lithium battery
- Selectable division value
- Rated Capacity (kg): 50, 100, 150, 200 & 300

Model No.	Capacity(kg)	Resolution(Kg)
PGC50	50	20
PGC100	100	50
PGC150	150	50
PGC200	200	100
PGC300	300	100



DIGITAL CRANE SCALE

FEATURES:

- Super bright 5-digit 30mm LCD display with back lighting
- Light weight aluminum alloy housing
- Measures : Standard remote controller to perform Calibration
- Hold, Zero & Division selection functions.
- Selectable division value
- Convenient 360° swivel hook.
- High capacity rechargeable battery (6V/10Ah), 150 hours of stand by time per full charge.

Model No.	Capacity(kg)	Resolution(Kg)
PAC600	600	0.2
PAC1000	1000	0.5
PAC2000	2000	1
PAC3000	3000	1
PAC5000	5000	2
PAC10000	10000	5
PAC15000	15000	10



DIGITAL MEASURING WHEEL PWL-200

FEATURES:

- Max measuring range: 99999.99 metres
- With the metric system transformation function
- Diameter of wheel: 159mm
- Accuracy: $\pm 0.5\%$
- Display resolution: 0.1m
- Power supply: 3v (2x"AAA" batteries)
- Suitable temperature for use: $-10^{\circ}\text{C} - 45^{\circ}\text{C}$



MEASURING WHEEL PWL-100

FEATURES:

- The meter walking measuring wheel is made of nylon and thick aluminum tube, durable.
- Unique design of wheel on the centre make comfortable.
- Good design, nice and practical.
- Comfortable design of the handle.
- Lightweight, foldable design, easy to carry and use.
- One button reset design.
- Equipped with precise counter.
- Brake function helps to make precise measurement.
- With start point arrow and kickstand.
- Thickened wear-resistant nylon wheel.

TECHNICAL SPECIFICATION

- Material: PC+Nylon
- Maximum Measurement Range: 0-9999.9m/ft
- Accuracy: $\pm 0.5\%$
- Minimum Display Value: 0.1m/0.3ft
- Wheel Diameter: 318 mm /12.5inch
- Aluminum Rod Diameter: 43.6mm
- Circle Range: 1000mm
- With meters measuring display.





- ABRASION SCRUB TESTER***
- CROSS HATCH TESTER***
- DIGITAL PULL-OFF ADHESION TESTER***
- PAINT FILM APPLICATOR***
- CUBE APPLICATOR***
- MICROMETER ADJUSTABLE FILM APPLICATOR***
- COLOR VIEWING BOOTH***
- COLOR METER***
- SALT SPRAY CHAMBER***
- GRINDOMETER***
- GLOSS METER***
- PICNOMETER***
- WET FILM THICKNESS WHEEL***
- DRY FILM INSPECTION GAGE***
- PENCIL HARDNESS TESTER***
- CONICAL MANDREL BEND TESTER***
- CYLINDRICAL MANDREL BEND TESTER***
- FLEXIABLE IMPACT TESTER***
- IMPACT TESTER***
- DIGITAL CUPPING TESTER***
- ZAHN CUP***
- ISO FLOW CUP***
- DIN FLOW CUP***
- DIN FLOW CUP WITH HANDLE***
- DIGITAL STORMER VISCOMETER***
- SURFACE PROFILE GAGE***
- ULTRASONIC THICKNESS GAGE***
- COATING THICKNESS GAGE***

WET ABRASION SCRUB TESTER KT-110

This machine is widely used to test the resistance of many materials to scrub, abrasion, washing. Paints, varnishes, other coatings and finishing can be applied on various supporting media e.g. plastic, glass, wood, paper, leather etc., and submitted to the accelerated test, by reciprocating brushes, sponges or abrasives on the samples with (or without) reagent depending on methods. When applicable, the machine is fitted with a dosing peristaltic pump . This machine can be in accordance with ASTM D 2486 or ISO 11998/BS 3900 only through changing the different scrub device. We design two scrub device for these different standard. Wearing, loss of gloss, damages or soil removal capability of detergents can be observed with high repeatability and reproducibility.

FEATURES:

- Weight of brush (including brushing tools) : 450±2g/135±1g
- Specification of brush : 38mm×90mm
- Distance of brush travel back and forth : 300mm
- Travel frequency : 37±1time/min
- Counter : 4 digit-number
- Input electrical power : 220V/50Hz
- Weight : 32Kg
- Dimension : 570× 420×300mm (L×W×H)



Nylon brush of ASTM 2486 ISO 1998 special brush

Black plastic panel

TECHNICAL SPECIFICATION

Model No.	Description
KT-110	Wet Abrasion Scrub Tester
KT-110-1	ISO 11998 Special brush
KT-110-2	Black plastic panel (pack of 100)
KT-110-3	Nylon brush of ASTM D 2486

CROSS HATCH TESTER KT-101

FEATURES:

- This is a simple but effective method for determining the coating adhesion on a wide range of substrates. This adhesion tester is ideal for coatings on flat surfaces and is available with one of three different spacings;
 - 1mm spacing - for coating thickness <math><60\mu\text{m}</math> (2.4mils)
 - 2mm spacing - for coating thickness <math><125\mu\text{m}</math> (5.0mils)
 - 3mm spacing - for coating thickness <math><250\mu\text{m}</math> (9.8mils)
- Each cross hatch gauge can be combined in a kit with a standardised brush and x10 magnifier.
- Efficient cross hatch cutter with 6 cutting faces
- Anodised aluminium handle with a wheel for stable operation
- Supplied with an adjustment gauge for accurate positioning of the cutter face for better adhesion test results
- **ASTM D3359,ISO2409-1992,DIN 2409, ECCA T-6,BS 3900E6**

TECHNICAL SPECIFICATION

Model No.	Description
KT-101A	Cross-Cut Kit, 6-edge 1 mm
KT-101B	Cross-Cut Kit, 6-edge 2 mm
KT-101C	Cross-Cut Kit, 11-edge 1 mm

ADHESION



CROSS HATCH TESTER KT-120

FEATURES:

- KT-120 Cross Hatch Cutter provides an instant assessment of the quality of the bond to the substrate. Due to its rugged construction this gauge is ideal for thin, thick or tough coatings on flat or curved surfaces. An ideal field or laboratory test.
- Easy to change cutters
- Ideal for thick or hard coatings
- Large selection of cutters, each with four cutting faces
- **The Full Kit comes complete with:**
 - Robust handle, the cutter of your choice, Allen Key (wrench), presentation storage case, eye glass, brush, adhesive tape 3M ,instruction manual and plastic ABS carrying case

TECHNICAL SPECIFICATION

Model No.	Description
KT-120A	Cross-Cut Kit, 6-edge 1 mm
KT-120B	Cross-Cut Kit, 6-edge 2 mm
KT-120C	Cross-Cut Kit, 11-edge 1 mm



DIGITAL PULL-OFF ADHESION TESTER KT-130

FEATURES:

- Dolly Size : 20mm (Standard) ; 10mm、14mm、50mm (Optional)
- Resolution : 0.01MPa (1psi)
- Accuracy : $\pm 1\%$ Full scale
- Max. Pull-off Pressure : 100-3000psi(0.7-20Mpa)
- ISO 4624, 16276-1,ASTM D 4541, D 7234
- Power : Built-in rechargeable lithium battery, charging adapter.
- Adhesion Tester Size : 360mm×75mm×115mm
- Adhesion Tester Weight : 3KG



PAINT FILM APPLICATOR

FEATURES:

- The paint film applicator is made using modern technology of metallurgy with precision grinding machine, made of high-grade, corrosion-resistant stainless steel 440C, allows easy handling of the applicator. The accuracy of the Gap Depth is $\pm 1.0 \mu\text{m}$ (50 μm and below) and or 2% of Full Scale.
- Complies with ASTM D 823
- Wet Film Width of : 80mm

TECHNICAL SPECIFICATION

Model No.	Description
KT 202-3	50 μm , 100 μm , 150 μm , 200 μm
KT 202-4	30 μm , 60 μm , 90 μm , 120 μm
KT 202-8	100 μm , 200 μm , 300 μm , 400 μm

APPLICATION



PAINT FILM APPLICATOR

FEATURES:

- Used on low viscous paints and non rigid substrates
- Each applicator with four clearances
- Complies with ASTM D823
- Wet Film Width of : 65mm

TECHNICAL SPECIFICATION

AcXY`Bc`"	8 YgWjdHcb
KT-203-1	50 μm , 100 μm , 150 μm , 200 μm
KT-203-2	300 μm , 400 μm , 500 μm , 600 μm
KT-203-3	30 μm , 60 μm , 90 μm , 120 μm



CUBE APPLICATOR

FEATURES:

- Ideal for the precise and repeatable application of parallel film stripes.
- This applicator is recommended for use in conjunction with our Line Drying Time Recorder.
- Applicators are supplied in a protective storage case with full user instructions included.
- Wet Film Width: 16mm
- Complies with ASTM D823

TECHNICAL SPECIFICATION

AcXY`Bc`"	8 YgWjdHcb
KT-207-1	38 μm , 76 μm
KT-207-3	75 μm , 150 μm



MICROMETER ADJUSTABLE FILM APPLICATOR

FEATURES:

- Stainless steel knife blade with precision ground edge
- Wet film thickness 6.5mm maximum
- Micrometer head accuracy is $\pm 10\mu\text{m}$
- ASTM D 823
- By using high precision micrometer adjustment, this applicator can be set from zero to 8mm in increments of $10\mu\text{m}$.
This applicator is ideally suited to research projects where small variations in film thickness need to be evaluated accurately.

TECHNICAL SPECIFICATION

Model No.	Description
KT 204-2	Micrometric film applicator 100 mm wide
KT 204-3	Micrometric film applicator 150 mm wide
KT 204-4	Micrometric film applicator 200 mm wide
KT 204-5	Micrometric film applicator 250 mm wide
KT 204-6	Micrometric film applicator 300 mm wide

APPLICATION



COLOR VIEWING BOOTH P60 Plus (6 light sources)

FEATURES

- The Color Viewing Booth render color more accurately. With 6 different light sources(D65, TL84, CWF, TL83/U30, F, UV), which can detect the metamerism.
- Meets or exceeds major international standards for visual color evaluation including: ASTM D1729, ISO3664, DIN, ANSI and BSI.
- Easy to operate by using individual switches for each light source.
- Elapsed time meter for tracking optimal lamp replacement.
- Automatically alternating among light sources.
- No warm-up time or flickering which insures quick and reliable color judgment.
- Economic power consumption and low heat generation for high light efficiency.
- The dimension can be made by customized

COLOR



About Light Sources :

Light source	Color viewing booths Application	Color temperature(k)	Power(W)
D65	International Standards Artificial daylight	6500	20
TL84	Applied to stores in Europe, Japan & China	4000	18
CWF	(Cool white fluorescent) American standard	4150	20
F/A	"Sun-setting light yellow" incandescent light source	2700	40
UV	Viewing under ultraviolet to detect and evaluate optical brighteners or fluorescent pigments.	wavelength:365nm	20
U30	Warm white fluorescent American standard	3000	18

COLOR VIEWING BOOTH

FEATURES

- Time running display of each light source.
- Auto conversion between light sources; Different spectrum with same color.
- No need warm-up; No flicker; Color assessment quick and reliable.
- Low power-consumption; No heat emission; Efficient illumination.
- Small and convenient.
- Low price with high quality assurance.

Model No. PAN-604 COLOR VIEWING BOOTH (4 light sources)

Conform to ISO,ASTM,DIN,BSI,ANSI,CIE

D65 --- International-standard Artificial Daylight

Color temperature:6500K Power:20W

TL84 --- Applicable to stores in Europe, Japan and China

Color temperature:4000K Power:18W

F-light -- Comparison referential light source, Applicable to family/hotel Color temperature:2700K Power:40W

UV ---- Ultraviolet light source

Wavelength:365nm Power:20W

Voltage:220V/50HZ(110v/60HZ)

Dimensions:710x405x570 mm

Weight:28Kg



Model No. PAN-605 COLOR VIEWING BOOTH (5 light sources)

Conform to ISO,ASTM,DIN,BSI,ANSI,CIE

D65 --- International-standard Artificial Daylight

Color temperature:6500K Power:20W

TL84 --- Applicable to stores in Europe, Japan and China

Color temperature:4000K Power:18W

CWF --- (Cool White Fluorescent)

Color temperature:4150K Power:20W

F-light ---- Comparison referential light source, Applicable to family/hotel Color temperature:2700K Power:40W

UV ---- Ultraviolet light source

Wavelength:365nm Power:20W

Dimensions:710x405x570 mm

Voltage:220V/50HZ(110v/60HZ)

Weight:30Kg



Model No. PAN-606 COLOR VIEWING BOOTH (6 light sources)

Conform to ISO,ASTM,DIN,BSI,ANSI,CIE

D65 --- International-standard Artificial Daylight

Color temperature:6500K Power:20W

TL84 --- Applicable to stores in Europe, Japan and China

Color temperature:4000K Power:18W

CWF--- (Cool White Fluorescent)

Color temperature:4150K Power:20W

F-light ---- Comparison referential light source, Applicable to family/hotel Color temperature:2700K Power:40W

UV ---- Ultraviolet light source

Wavelength:365nm Power:20W

U30--- (Warm White Fluorescent)

Color temperature:3000K Power:18W

Dimensions:710x530x570 mm

Voltage:220V/50HZ(110v/60HZ)

Weight:35Kg



Model No. PAN-607 COLOR VIEWING BOOTH (Ultra-size)

Conform to ISO,ASTM,DIN,BSI,ANSI,CIE

D65 --- International-standard Artificial Daylight

Color temperature:6500K Power:20W

TL84 --- Applicable to stores in Europe, Japan and China

Color temperature:4000K Power:18W

CWF --(Cool White Fluorescent)

Color temperature:4150K Power:20W

F-light ---- Comparison referential light source, Applicable to family/hotel

Color temperature:2700K Power:40W

UV ---- Ultraviolet light source

Wavelength:365nm Power:20W

U30 --- (Warm White Fluorescent)

Color temperature:3000K Power:18W

Dimensions:1310x600x800 mm

Voltage:220V/50HZ(110v/60HZ)

Weight:60Kg



Optional fittings: Light source diffusing board / 45° normative stand / Lamp container.

Model No. PAN-609 COLOR VIEWING BOOTH(American type)

Conform to ISO,ASTM,DIN,BSI,ANSI,CIE

D65 --- International-standard Artificial Daylight

Color temperature:6500K Power:20W

TL84 --- Applicable to stores in Europe, Japan and China

Color temperature:4000K Power:18W

CWF --- (Cool White Fluorescent)

Color temperature:4150K Power:20W

F-light ---- Comparison referential light source, Applicable to family/hotel

Color temperature:2700K Power:40W

UV ---- Ultraviolet light source

Wavelength:365nm Power:20W

U30--- (Warm White Fluorescent)

Color temperature:3000K Power:18W

A --- American style shooting light; Referential color-comparing light

Color temperature:2856K Power:60W

Weight:35Kg

Dimensions:710x530x570 mm

Voltage:220V/50HZ(110v/60HZ)



Model No. PAN-610 COLOR VIEWING BOOTH(British type)

Conform to ISO,ASTM,DIN,BSI,ANSI,CIE

D65 --- International-standard Artificial Daylight

Color temperature:6500K Power:20W

TL84/P15 --- Marks & Spencer special light source

Color temperature:4000K Power:20W

F-light ---- Comparison referential light source, Applicable to family/hotel

Color temperature:2700K Power:40W

UV ---- Ultraviolet light source

Wavelength:365nm Power:20W

Dimensions:710x420x570 mm

Voltage:220V/50HZ(110v/60HZ)

Weight:28Kg



COLOR METER CM-12

TECHNICAL SPECIFICATION

Measuring aperture	4 mm
Geometry	8/d
Sensor	Silicon photoelectric diode
Colour space	CIEL*a*b*C*h CIEL *a*b CIEXYZ
Colour difference formula	ΔE^*ab ΔL^*ab ΔE^*C^*H
Light source	D65
Light source device	LED blue light
Errors between each equipment	$\leq 0.50\Delta E^*ab$
Storage	100 standard samples, 20,000 test samples
Repeatability	Standard deviation within ΔE^*ab 0.08 Measurement conditions: average of 30 measurements of standard white plate
Power supply	Rechargeable lithium-ion battery 3.7 V @ 3,200 mAh
Charging time	8 hours
Battery life	Approx. 5,000 measurements
Lamp life	5 years, more than 1.6 million measurements
Storage conditions	Air temperature: 0 ... +40 °C Air humidity: 0 ... 85 % RH, non-condensing
Dimensions	205 x 67 x 80 mm
Weight	500 g



STANDARD DELIVERY

- 1 x colorimeter
- 1 x USB cable
- 1 x soft bag
- 1 x mains adaptor
- 1 x hand strap
- 1 x calibration plate (white)
- 1 x pc software
- 1 x instruction manual

COLOR METER CM-17

TECHNICAL SPECIFICATION

Measuring aperture	8 mm
Geometry	8/d
Sensor	Silicon photoelectric diode
Colour space	CIELAB
Colour difference formula	ΔE^*ab
Light source	D65
Light source device	LED blue light
Errors between each equipment	$\leq 0.50\Delta E^*ab$
Storage	100 standard samples, 100 groups
Repeatability	Standard deviation within ΔE^*ab 0.08 Measurement conditions: average of 30 measurements of standard white plate
Power supply	Rechargeable lithium-ion battery 3.7 V @ 3,200 mAh
Charging time	8 hours
Battery life	Approx. 5,000 measurements
Lamp life	5 years, more than 1.6 million measurements
Storage conditions	Air temperature: 0 ... +40 °C Air humidity: 0 ... 85 % RH, non-condensing
Dimensions	205 x 67 x 80 mm
Weight	500 g



COLOR METER CM-15P

APPLICATION

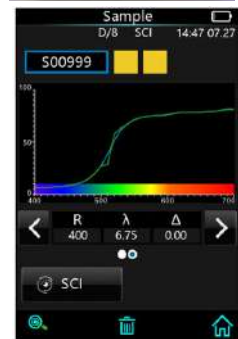
CM-15P is a portable spectrophotometer developed by us using its own core technology of spectroscopy. It uses a built-in silicon photodiode array (dual-row 24 groups) sensor, an imported white board, and the repeatability ΔE^*ab can be easily controlled within 0.04. CR8's powerful performance configuration and excellent inter-instrument error make color measurement more professional, while also ensuring the consistency of measurement data of multiple devices. CM-15P spectrocolorreader takes into account the measurement speed and the convenience of operation at the same time. The color can be controlled through the PC-side software, and it can also be seamlessly connected to the mobile device through Bluetooth. It greatly expands the application space of the colorimeter, and makes the traditional colorimeter glow with a different application charm.

TECHNICAL SPECIFICATION

Measurement aperture	Single aperture: $\Phi 8mm$ ($\Phi 4mm$ optional)
Optical geometry	D/8 (diffuse illumination, 8° direction reception)
	SCI measurement
	Comply with standard CIE No.15,G,18833,ISO7724-1,ASTME1164, DIN5033 Teil7
Integrating sphere size	$\Phi 40mm$
Light source	Combined full-spectrum LED light source
Spectroscopic method	Planar grating
Wavelength range	400~700nm
Wavelength interval	10nm
Semiband Bandwidth	10nm
Measurement range	L:0~120
	Reflectivity: the instrument can test the reflectivity at 3 specific wavelengths specified by the user (default 440nm, 550nm, 600nm), APP can realize the full-band wavelength display
Focusing method	Fixed Focus
Specular component	SCI
Color space	CIE LAB,XYZ,Yxy,LCh
Color difference formula	$\Delta E^*ab, \Delta E^*00$
Observer angle	10°
Illuminant	D65,A,F2(CWF)
Displayed data	Reflectivity(at 3 specific wavelengths specified by the user)chromaticity value, color difference value/graph, pass/fail result, color simulation, color offset
Display Accuracy	0.01
Repeatability	Chromaticity value: MAV/SCI, ΔE^*ab within 0.04 (When a white calibration plate is measured 30 times at 5 second intervals after white calibration)
Inter-instrument error	MAV/SCI, within ΔE^*ab 0.35(Average for 12 BCRA Series II color tiles)
Battery power	Lithium battery, 6000 times in 8 hours
Illuminant life span	5 years, more than 3 million times measurements
Display	TFT true color 3.5inch, capacitive touch screen
Data port	USB, Bluetooth® 5.0
Data storage	500 standard samples, 1,0000 samples , APP mass storage



Aperture:
 $\Phi 8mm$ or
 $\Phi 4mm$

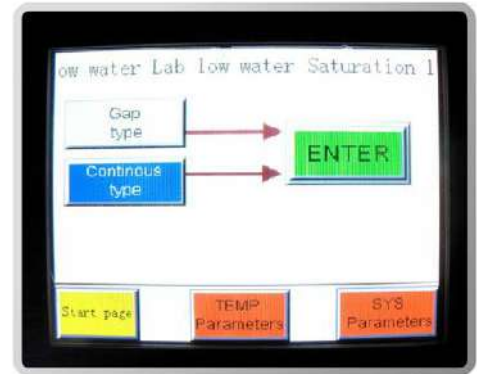


SALT SPRAY CHAMBER

FEATURES:

- LCD touch screen controller supports the continuous and intermittent testing.
- Refilling water automatically when water level is insufficient.
- The whole part of the device is made of Excellent PVC sheet and the inside of the device is reinforced by using a special lining material. Hence, it is sturdily made and will not transform forever.
- The test chamber is heated from five directions in order to ensure the temperature difference in the chamber must be kept within ± 1 Celsius degree.
- Spray nozzle: The nozzle is specially made to enable it to suck up the salt Water and then spray it out in the shape of mist with considerable high speed. When it falls on the surface of the item being tested , the difference of fallen mist must be controlled within ± 0.3 ml per 80 square centimeter H.
- **International standards:**
IS09227,ISO7253,ASTMB117,ASTMB368,JIS-D0201

CORROSION



TECHNICAL SPECIFICATION

Model No.	SS108L	SS270L	SS480L	SS800L	SS1440L
Inside Dimensions(mm)	600x450x400	900x600x500	1200x850x500	1600x1000x550	2000x1200x600
Outside Dimensions(mm)	1130x630x1070	1460x910x1280	2200x1200x1450	2600x1450x1550	3000x1650x1600
Chamber Volume	108L	270L	480L	800L	1440L
Saline Box Capacity	15L	25L	40L	40L	40L
Testing Temperature	NSS ACSS 35°C ± 1 °C / CASS 50°C ± 1 °C				
Air Temperature	NSS ACSS 47°C ± 1 °C / CASS 63°C ± 1 °C				
Accuracy of Temperature	± 1 °C				
PH Value	NSS ACSS: 6.5~7.2 / CASS: 3.0~3.2				
Supply Power	AC220V/50Hz AC110V/60Hz 1Φ20A		AC 220V/50HZ AC110V/60HZ 1Φ30A		

STANDARD DELIVERY

Power cable	1PC	PVC V-shape bracket	1SET	Operation manual	1 COPY
Wet inductive cotton	5 PCS	Φ10mm glass rod	1SET	3M soft exhaust pipe	1PC
5M soft inlet and outlet water pipe	1PC	9.5L Salt water mixer	1 PC		

GRINDOMETER

FEATURES:

- Grindometer is used to indicate the fineness of grind or the presence of coarse particles or agglomerates in a dispersion. It does not determine particle size or particle size distribution.
- Grindometer is a flat steel block in the surface of which are two flat-bottomed grooves varying uniformly in depth from a maximum at one end of the block to zero near the other end. Groove depth is graduated on the block according to one or more scales used for measuring particle size. Most gages will have one scale marked in either mils or microns.
1 mil = 25.4 microns
1 mil = 0.001 inch
1 micron, μm - 0.001 mm
The Hegman scale ranges from 0 to 8 with numbers increasing as the particle size decreases.
0 Hegman = 4 mil/100 micron particle size
4 Hegman = 2 mil/50 micron particle size
8 Hegman = 0 mil/0 micron particle size
- We offer a wide variety of grind gages varying in scales, number of grooves, length and width of grooves and size of the block.
- Complies with ISO 1524,DIN EN ISO NF 21524,ASTM D1210,ASTM D1316,ASTM D333,DIN 53203,NFT 30046

DISPERSION



KT 210-0S



KT 210-3



KT 211-2

STANDARD DELIVERY

- Grind Block
- Scraper
- Application Manual
- Reusable Storage Case

TECHNICAL SPECIFICATION

Model.No	Dims(mm)	Path Width(mm)	No.of Paths	Range (μm)	Range (Hegman)	Range (MILS)
KT 210-0S	120×25×13	12	1	0-15	--	--
KT 210-1S	120×25×13	12	1	0-25	--	--
KT 211-0	165×37×13	12	2	0-15	--	--

Model.No	Dims(mm)	Path Width(mm)	No.of Paths	Range (μm)	Range (Hegman)	Range (MILS)
KT 210-1	170×50×15	12	1	0-25	8-6	--
KT 210-2	170×50×15	12	1	0-50	8-4	--
KT 210-3	170×50×15	12	1	0-100	8-0	--
KT 210-4	170×50×15	12	1	0-150	--	--

Model.No	Dims(mm)	Path Width(mm)	No.of Paths	Range (μm)	Range (Hegman)	Range (MILS)
KT 211-1	175×65×15	12	2	0-25	8-6	0-1
KT 211-2	175×65×15	12	2	0-50	8-4	0-2
KT 211-3	175×65×15	12	2	0-100	8-0	0-4

GLOSS METER PAN60 /PAN268

APPLICATION

- Measurement of Paint and Dope surface gloss on Car, Electronic appliance and Musical instrument industry.
- Measurement of floor board, marble, granite and ceramic tile gloss on architecture, decoration industry.
- Measurement of printing ink and paper on Printing and Casing industry.
- Measurement of the others need to be measured.
- Hard drawn aluminum alloys
- Complies with ASTM D523,ASTM D2457,ISO 2813,ISO 7668,DIN 67530,JIS Z8741

FEATURES

- Small and light, real easy to be carried and used.
- One 1.5V battery can be used for almost 60 hours and 10000 reading.
- High stability
- Long-term stable light source needs no replacing for ever.
- Quartz crystal standard board, no excursion.

GLOSS



TECHNICAL SPECIFICATION

Model No.	PAN268	PAN60	PAN75	PAN45	PAN60C	PAN60D	PAN60-L	
Geometry	20°60°85°	60°	75°	45°	60°	60°	60°	
Measurement Range(Gu)	20°0~99.9 100~1999 60°0~99.9 100~999 85°~99.9 100~160	0~199.9				0~99.9	100~1000	0~199
Stability (Gu/30 Min)	±0.4						±1	
Readout Accuracy	±1.2						±1.2 1.5%	±2
Power supply	1.5 v AA(Li-ion 4.2v for rechargeable)							
Measurement spot(mm)	10x10 (20°) 10x20 (60°) 8x30 (85°)	10x20	8x20	10x14	2x2	10x20	25x50	
Window size mm	11x52	14x28	12x48	14x20	Φ4	14x28	26x52	
Dimensions L x W x H mm	143x32x64	114x32x64						
Weight(g)	390	180						
Application	Paint、 Coating、 Printing		Paper	Plastic Ceramics	Curve Object and small size object	Metal、 Dope、 Plating layer	Marble Granitic	
International Standards	ISO2813 ASTMD523 DIN-67530		TAPPI -T804	ASTM-C346 ASTM-2767	ISO2813, ASTMD523	ISO2813, ASTMD523, ISO7668	ASTMD523, ISO 2813	

GLOSS METER GLS-60E

Gloss meter GLS-60E is a portable handheld 60-degree reflective gloss meter or gloss tester used to measure the gloss units (GU) on a material's surface. This rechargeable gloss meter uses reflected light for gloss measurement per ISO 2813, GB/T 9754, ASTM D523 and ASTM D2457 standards.

GLS-60E glossmeter is used widely by manufacturing quality control and assurance professionals for gloss spot checks during the production process.

FEATURES:

- 60° measuring geometry
- 3.5" TFT touchscreen display
- Built-in rechargeable battery
- Quick 0.5 second measuring time
- 0 ... 200 GU gloss measurement range
- Self-calibration possible using included calibration plate
- Chromaticity fulfills CIE 1931 2° under a CIE illuminant C
- Data transfer to computer via included USB cable and PC software



TECHNICAL SPECIFICATION

Measuring geometry	60 °
Display	3.5 " TFT touchscreen display
	ISO 2813
	GB/T 9754
Standards	ASTM D523
	ASTM D2457
Measuring surface	9 x 15 mm / 0.36 x 0.60"
Measuring range	0 ... 200 GU
Readability	1 GU
Repeatability	±1 GU
Reproducibility	±1 GU
Chromaticity	Fulfills CIE 1931 2° under a CIE illuminant C
Measuring accuracy	±1.5 / ±1.5 %
Measuring time	0.5 second
Dimensions	160 x 75 x 90 mm / 6.3 x 3 x 3.5"
Weight	350 g / 0.78 lb
Menu languages	English, Chinese
Power supply	3200 mAh Li-ion rechargeable battery
Data interface	USB / RS-232
Operating temperature	0 ... 40 °C / 32 ... 104 °F
Storage temperature	-20 ... 50 °C / -4 ... 122 °F
Relative humidity	< 85% RH (non-condensing)

STANDARD DELIVERY

- 1 x GLS-60E gloss meter
- 1 x charging adapter
- 1 x USB cable
- 1 x PC software
- 1 x calibration plate
- 1 x user manual
- 1 x carrying case

GLOSS METER GLS-60

GLS-60 gloss meter has a measuring geometry of 60°. This rechargeable gloss meter uses reflected light for gloss measurement per ISO 2813, ASTM D523 and ASTM D2457 standards.

GLS-60E glossmeter is used widely by manufacturing quality control and assurance professionals for gloss spot checks during the production process.

FEATURES:

- Measuring geometry: 60°
- 3.5" TFT
- Internal measurement value storage up to 1000 measurement values
- Calibration plate included in the delivery content
- Short measuring time
- With evaluation software



TECHNICAL SPECIFICATION

Measurement geometry	60°
Display	3.5" TFT touch display ISO 2813
Standards	GB/T 9754 ASTM D 523 ASTM D 2457
Measuring surface	9x15 mm
Measuring range	0 ... 300 GU
Readability	0.1 GU Meas. range 0 ... 10 GU: ±0.1 GU
Repeatability	Meas. range 10 ... 100 GU: ±0.2 GU Meas. range 100 ... 300 GU: ±0.2 GU (%) Meas. range 0 ... 10 GU: ±0.2 GU
Reproducibility	Meas. range 10 ... 100 GU: ±0.5 GU Meas. range 100 ... 300 GU: ±0.5 GU (%) Fulfils CIE 1931(2°) under a CIE C – light source ±1.5 / ±1.5 %
Chromaticity Measurement accuracy	0.5 second
Measuring time	160 x 75 x 90 mm
Dimensions	350 g
Weight	English, Chinese
Menu language	3200 mAh Li-ion rechargeable battery
Power supply	USB / RS-232
Interface	Measuring storage
Measuring storage	Baseline measurement: 1000
Software	Included
Operating temperature	0 ... +40 °C
Storage temperature	-20 ... +50 °C
Relative humidity	<85% rel. humidity (non-condensing)

STANDARD DELIVERY

- 1 x gloss meter GLS-60
- 1 x rechargeable lithium-ion battery
- 1 x charging adaptor
- 1 x USB cable
- 1 x calibration plate
- 1 x evaluation software (on a CD-ROM)
- 1 x instruction manual

GLOSS METER GLS-268

Gloss meter for mobile use / flexibility due to various measuring geometries /

3.5 " TFT display / very short measuring time / internal memory for readings / including evaluation software

The GLS-268 gloss meter works with measuring geometries of 20 °, 60 ° and 85 °, using the reflection principle. This means that the gloss meter emits light which hits the surface to be tested. A part of the light will be absorbed by the surface and another part will be reflected. After this, the gloss meter will calculate the degree of gloss.

FEATURES:

- Various measuring geometries
- 3.5" TFT
- Internal measurement value storage
- Calibration plate included in the delivery content
- short measuring time
- Evaluation software

TECHNICAL SPECIFICATION

Measurement geometry	20 ° / 60 ° / 85 °
Display	3.5 " TFT touch display ISO 2813
Standards	ASTM D 523 ASTM D 2457 20 ° : 10 x 10 mm 60 ° : 9 x 15 mm
Measuring surface	85 ° : 5 x 36 mm 20 ° : 0 ... 1000 GU
Measuring range	60 ° : 0 ... 1000 GU 85 ° : 0 ... 160 GU
Readability	0.1 GU
Repeatability	Meas. range 0 ... 10 GU: ±0.1 GU Meas. range 10 ... 100 GU: ±0.2 GU Meas. range 100 ... 1000 GU: ±0.2 GU (%) Meas. range 0 ... 10 GU: ±0.2 GU
Reproducibility	Meas. range 10 ... 100 GU: ±0.5 GU Meas. range 100 ... 1000 GU: ±0.5 GU (%) Fulfils CIE 1931(2 °) under a CIE C – light source
Chromaticity	
Measurement accuracy	±1.5 / ±1.5 %
Measuring time	0.1 second
Dimensions Weight	160 x 75 x 90 mm
Menu language Power supply Interface	350 g English, Chinese
Measuring storage	3200 mAh Li-ion rechargeable battery USB / RS-232 Baseline measurement:1000
Operating temperature	0 ... +40 °C
Storage temperature	-20 ... +50 °C
Relative humidity	<85% rel. humidity (non-condensing)



STANDARD DELIVERY

- 1 x gloss level meter GLS-268
- 1 x charging adaptor
- 1 x rechargeable lithium-ion battery
- 1 x USB cable
- 1 x calibration plate
- 1 x evaluation software (on a CD-ROM)
- 1 x instruction manual

DENSITY

PICNOMETER

FEATURES:

- The PICNOMETER should remain constant from batch to batch. Also known as Density (Specific Gravity) Cups. Pycnometers are used to determine the specific weight per unit volume of a liquid at a given temperature.
A stainless steel or anodised aluminium pycnometer for determining the specific weight of paints and similar products. A tolerance of 0.1% is guaranteed.
Testing is carried out in accordance with ISO at 23±2°C.
This picnometer consists of a cylindrical container and cover with a hole for exhaust of excess liquid for any excess Paint (or Ink) to be removed when the cup cover is pressing tightly. By doing so, will also ensure that no air bubbles (or pockets of air) are being trapped.
- Complies with ISO 2811, DIN 53 217, ASTM D 1475



TECHNICAL SPECIFICATION

Model no	Capacity	Unit	Material
KT 220-1	37cc/ml	Metric	Copper with nickel plate
KT 220-3	50cc/ml	Metric	Stainless steel
KT 220-5	100cc/ml	Metric	Stainless steel

WET FILM THICKNESS WHEELS KT 270

FEATURES:

- Specially developed for use on wet lacquers, paint and oil coated surfaces. Made of stainless steel. The center disc features a precision ground eccentric groove to pick up the coating medium, to be measured after rolling the gauge onto the surface, beginning with the deepest groove.
Complies with: ASTM D1212-91-A, ISO 2802-1B, BS 3900-C5-1B, NF T30-125

TECHNICAL SPECIFICATION

Model No.	Measuring range	Graduation
KT 270-1	0-25µm	2 µm
KT 270-2	0 - 50 µm	2 µm
KT 270-3	0 - 125 µm	5 µm
KT 270-4	0 - 250 µm	10 µm
KT 270-5	0 - 500 µm	20 µm
KT 270-6	0 - 1000 µm	50 µm

FILM THICKNESS



PIG MULTI-PURPOSE DRY FILM INSPECTION GAUGE KT-276

FEATURES:

- Solid aluminium body
- For coatings up to 1250 μm
- The total thickness and individual coating thicknesses can be measured
- The body of the P.I.G. is cast from aluminium and contains a microscope, a lamp and the groovecutting bit. Two legs extend from the unit on the same side as the cutting bit and are used as stabilizers when making the incision. The microscope has built-in measurement scale with major graduations in 20 microns.
- Complies with ASTM D 4138, ASTM D 3359, DIN 53151, DIN EN ISO2815



TECHNICAL SPECIFICATION

Description	Serial No	Angle	Range(μm)
Carbide Cutter	No.1	45°	20-2000
Carbide Cutter	No.2	26.6°	10-1000
Carbide Cutter	No.3	5.7°	2-200
Cutter(1mm)	No.4	90°	0 – 60
Cutter(2mm)	No.5	90°	50 – 125
Buchholz	No.6	90°	R.15mm

STANDARD DELIVERY

PIG.Gauge with 6 cutting tools
 Battery and bulb
 Black MARK pen Screwdriver
 2 piece Additional Weights
 500g Storage box

HARDNESS

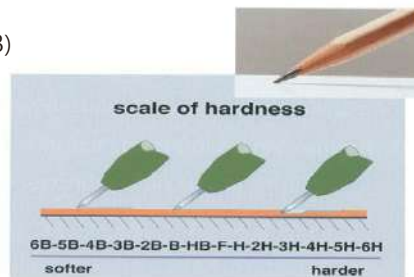
PENCIL HARDNESS TESTER KT-265

FEATURES:

- To measure the hardness of coating film based on the hardness grade of pencil. The advantages are small volume, light weight. It is convenient to measure the hardness at the laboratory and construction site.
- Complies with ASTM D 3363, ISO 15184, and BS 3900 E19

TECHNICAL SPECIFICATION

- Load on the point of pencil: 750 \pm 5g
- Overall dimensions: 120 \times 75 \times 60mm(L \times W \times H)
- Weigh: 2.3kg
- Pencil model: 6B~HB~6H(Quantity 13)



C8A ; 4E7A 8FF G8FG8E KT-267

FEATURES:

- I gYX 'tc' UMW fUHY' ma YUgj fY' UbX' fYVzFX' H.Y' \ UFXbYgg' cZ] Uf]ci' g' a UHYf]U'g' f]j' W' Ug' Vt' Uh]b[g'z' d' Ugh]V'k' ccX' cf' a' YHU' g' fZJW' \ UFXbYgg'k
- H.Y' a' YUgj' fYX' g' fZJW' WUb' VY' ZUh' cf' W' f]j' YX''
- B'ch' 'ja']hYX' VmiUFYU' g]hY''
- 9Ugm]tc' 'cdYfUHY'Z'gh]UV' Y' dYfZc'fa' UbW''
- 9Ugm]tc' 'W]ffmiUbX' 'cH' Yf' W'U'FU'W'f]g]h]Vg''

TECHNICAL SPECIFICATION

Pressure test spring material	Spring steel
Test head material	Tungsten carbide
Test head diameter	0.5mm (Opel, optional) 0.75mm (Bosch, standard)
	1.0mm(optional) (conforming to ISO1518 and DEF)
Spring pressure range	0~3N (marked in blue)
	0~10N (marked in red)
	0~20N (yellow mark)
	0~40N (white mark), (optional)



CONICAL MANDREL BEND TESTER KT-230

FEATURES:

- Conical Mandrel Bend Tester is applicable to determine extensibility of paint coatings on metal panels which are clamped in position and formed round the conical mandrel by rotating of the roller frame. The panels are examined to evaluate crack resistance and detachment from the metal substrate of coated surface which is coated with paint under standard condition.
- Complies with ISO6860,ASTM D522,DIN 53150,BS 3900 E11

Dimension by conical mandrel	Major diameter - 38 mm Minor diameter - 3.2 mm Length - 203 mm
Test piece thickness	0.3-0.8 hard # 0.3-5mm soft
Angle of bending	135°
Weight	7kg

IMPACT / FLEXIBILITY



CYLINDRICAL MANDREL BEND TESTER KT-232

FEATURES:

- KT-232 cylindrical mandrel bend tester is used to assess the coating layers of the pigmented paints, the varnishes and the relevant products. It is the special instrument testing the crack resistance or the stripping performances from the metal plates at bending around the cylindrical shaft.
- Complies with ISO 1519, ASTM D522 and DIN 5352

TECHNICAL SPECIFICATION

- Shaft stick diameter: 2mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm, 12mm, 16mm, 20mm, 25mm, 32mm
- Thickness of bottom material for the test plate: less than 1.0mm



FLEXIBLE IMPACT TESTER KT-234

FEATURES:

- Impact Tester is used to test the resistance of coloured steel sheet and other coating film and its substrate to the effects of rapid deformation.
- Complies with ASTM D 2794、ISO6772

TECHNICAL SPECIFICATION

- Drop height : 0-100 cm(0-40in)
- The falling weight : 1kg×2 pieces 21bs×2 pieces
- Diameter of the striking steel ball : Φ20mm Φ0.625in
- Overall dimensions : 300×240×1400mm
- Instrument net weight : 18kg

IMPACT TESTER KT-235

- Impact tester is used to test film resistance to impact by a weight that drops down from a specified height. It is completely in accordance with international standards: ISO6272、ASTM D2794、D3029、D4226

Model No	KT235A	KT235B
Hammer weight (kgs)	1±0.001 g	1±0.001g
Diameter of striking-head (mm)	Φ 8	Φ 8
Impacting height (cm)	0-50	0-100
Weight (kgs)	12.6	15
Shape size (l×w×h) mm	200x200x800	200x200x1300

DIGITAL CUPPING TESTER KT-237

FEATURES:

- Cupping Tester is applicable to evaluate crack resistance and detachment from the metal substrate of coated surface which is coated with paint, varnish, etc., after the coating layer is deformed gradually under standard condition. The sample panel (max. 1.25mm thick×70 mm width, coated min.0.03mm) is clamped by an upper wheel and manually cupped by a φ20mm hemispherical indenter onto a φ27mm die by a drive wheel. The depth to cause failure is indicated on a precise digital display. The results can be easily observed with an illuminated magnifier.
- Compliance with ISO 1520、BS 3900 Part 4、DIN 1502 etc
- Automatic coordinate positioning system: machine can memorize the home position after being zeroed, and locate the plugs position automatically. Therefore, the traditional error caused by replacement or wobble can be eliminated.
- Highly precise position sensor: the minimum division value of the depression depth can reach 0.01mm.
- Applicable for every kind of substrate, and the maximum pressure can reach 2500N.
- The coordinate position of the plug can be zeroed manually and can be memorized while it is cold.
- Hand twist operation: laborsaving and easy-handling.

TECHNICAL SPECIFICATION

- Diameter of punch : φ20mm
- Distance: 0-14mm
- Resolution : 0.01mm
- Accuracy: 0.05mm
- Panel width: 70mm
- Weight : 20Kg
- Dimensions : 230×300×280mm (L×W×H)



STANDARD DELIVERY

Digital cupping tester
Magnifier with illumination
Bracket for magnifier
User manual

VISCOSITY

ZAHN CUP KT-260

FEATURES:

- KT 260 Zahn Cups can be used to quickly measure the viscosity of liquids such as Paint, Ink, Varnishes, Syrup and Oil. The Stainless Steel Cups are molded precisely and the orifices are precision drilled using high-speed CNC drilling.
- Complies with ASTM D 816, ASTM D 1084, ASM D 4212
- **Technical Parameters:**
 Volume of Cup: 44ml
 Length of Handle: 40±0.1mm
 Height of Cup: 58±0.1mm
 Centistokes × Specific Gravity = Centipoise



Model No.	KT 260-1	KT 260-2	KT 260-3	KT 260-4	KT 260-5
Details/Zahn cup	Zahn cup 1#	Zahn cup 2#	Zahn cup 3#	Zahn cup 4#	Zahn cup 5#
Orifice Ø	1.8mm	2.7mm	3.8mm	4.3mm	5.3mm
Zahn Range (sec)	35-80	20-80	20-80	20-80	20-80
Centistokes Range	5-56	21-231	146-848	200-1200	400-1800
Applications	Very Thin Oil	Thin Oil , Paint Lacquer	Medium Oil Mixed Paint	Viscous Liquid and Mixtures	Very Viscous Mixtures

ISO FLOW CUP KT261

FEATURES:

- ISO Flow Cups is applicable to determine the flow time of Newtonian and near Newtonian fluids.
- Complies with ISO 2431, DIN 53224, EN 535; ASTM D5125
- Material : Anodized Aluminium
- Weight : 1Kg



Model No	KT261-1	KT261-2	KT261-3	KT261-4	KT261-5
Details/ISO cup	ISO-3	ISO-4	ISO-5	ISO-6	ISO-8
Ø Orifice (mm/inches)	3	4	5	6	8
Range seconds	30-100	25-100	25-100	25-100	25-100
Range cSt	7-42	34-135	91-326	188-684	600-1100

FORD FLOW CUP KT262

FEATURES:

- Ford Cups is easy and handy measurement of the viscosity of paints, inks, lacquers and other liquids.
- Produced from anodized aluminium, with stainless steel orifice.
- Complies with ASTM D1200, D333, D365



Model No	KT262-1	KT262-2	KT262-3	KT262-4	KT262-5
Details/Ford cup	Ford Cup 1	Ford Cup 2	Ford Cup 3	Ford Cup 4	Ford Cup 5
Internal Vertical Height	43mm	43mm	43mm	43mm	43mm
Ø Orifice (mm)	1.9 mm	2.53 mm	3.40mm	4.12mm	5.2mm
Centistokes Range	10-35	25-120	49-220	70-370	200-1200
Efflux Time(sec)±0.2	25-105	25-105	25-105	20-105	20-105

DIN FLOW CUP

FEATURES:

- DIN Flow Cup is applicable to the determination of viscosity of a certain coating materials of which the flow time determined by it is under 150s
- Main Technical Parameters
- Volume of cup : 100ml
- Inside diameter of orifice : $\Phi 4\text{mm}$
- Correct coefficient : (0.97 ~ 1.03) $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$
- Weight : 300g



Model No.	Ø Orifice (mm)	Viscosity(cSt)	Flow times(s)
KT 263-1	2	15-30	25-150
KT 263-2	4	96-683	25-150
KT 263-3	6	550-1500	--
KT 263-4	8	1200-3000	--

DIN FLOW CUP WITH HANDLE

FEATURES:

- Dip Cup are designed for quick, approximate determination of efflux times for paints, And similar liquids in workshops, at paint manufacturers and customers.Capacity:100ml
- DIN 53211

Model No.	Ø Orifice (mm)	Viscosity(cSt)	Flow times(s)
KT 264-1	2	15-30	25-150
KT 264-2	4	96-683	25-150
KT 264-3	6	550-1500	--
KT 264-4	8	1200-3000	--



DIGITAL STORMER VISCOMETER KU-5

FEATURES:

- Digital Stormer Viscometer measures fluid viscosity in Krebs Units.A paddle type spindle is driven at 200rpm by a constant speed motor.The reaction torque of the spindle rotating at 200rpm is converted to viscosity in Krebs Units.The digital display of the viscometer shows viscosity in Krebs Units(KU),the associated grams value(gm),and viscosity in centipoise(cP).
- Complies with ASTM-D562
- Measure range : 40KU—141KU, 32gm—1099gm, 27cP—5274cp
- Accuracy : $\pm 1\%$ (F.S)
- Reproducibility : $\pm 0.5\%$ (F.S)
- Speed: 200 RPM ($\pm 0.01\text{RPM}$)
- Measuring containers: 1 pint, 1/2 pint
- Input Voltage: 100V-240V,50Hz/60Hz
- Net Weight: 7 Kg



SURFACE PROFILE GAUGE RUG-200

SURFACE PROFILE

FEATURES:

Specially used to take accurate measurement of the peak-to-valley height of the surface profile of the surface cleaned surfaces.

TECHNICAL SPECIFICATIONS:

Display: 4digits, LCD
 Range: 0 μ m to 800 μ m(0mils to 30mils) Accuracy: \pm 5% or 5 μ m, (whichever is the greater)
 Resolution: 1 μ m(0.1mils)
 Metric and Imperial switchable
 PC interface: RS232C
 Measurement speed: >30 readings per minute
 Weight: 280g
 Dimensions: 162 \times 65 \times 28mm(6.4 \times 2.6 \times 1.1 inch)
 Operating temperature: 0to 50, \leq 80%RH Case: High impact ABS
 Batteries: 4 \times 5V(AAA) battery
 Standard accessories included:
 Carrying case: 1PC
 Operation manual: 1PC
 Optional accessory:
 Cable and software for RS232C



ULTRASONIC THICKNESS GAGE UTG-100

THICKNESS GAGE

FEATURES:

- Data storage/deletion
- Measuring sound velocity
- LCD backlight display
- Low battery reminder
- Automatic shut-down

TECHNICAL SPECIFICATIONS:

- Display: 4-digital LCD display
- Resolution:0.01mm(1.20 to 99.99mm)
0.1mm(100 to 300mm)
- Working frequency: 5MHz
- Measuring range: 1.20 to 300.00mm (steel)
- Minimum limit for tube measuring: Φ 20*3mm (steel)
- Accuracy: \pm (1%H+0.05)mm H denotes the measured thickness.
- Sound velocity range: 1000 to 9999 m/s
- Measuring sound velocity with a given thickness:
- Measuring range:1000 to 9999 m/s.
- When the given thickness \geq 20mm, the accuracy is \pm 5%; when the given thickness over 20mm, the accuracy is \pm 1%.
- Operation temperature: 0 $^{\circ}$ C to 40 $^{\circ}$ C
- Power supply: 3*1.5V AAA batteries
- Operation current: Normal operation current \leq 45mA
- With Backlight turn on current \leq 55mA
- Stand-by current: \leq 20uA
- Size: 72*146*29mm
- Weight: 202g



COATING THICKNESS GAUGE CG200

FEATURES:

This compact gauge can be used for non-destructive coating thickness measurement of non-magnetic coatings, e.g. paint, enamel, chrome on steel, and insulating coatings, e.g. paint and anodizing coatings on non-ferrous metals.

The internal probe can work on both principles, magnetic induction and the eddy currents. The probe can automatically detect the substrate type (Magnetic or not), and calculate the coating thickness and display it fast. There are five data groups, and readings will be automatically stored to memory for general groups (Not for direct group). Each group has individual statistics, alarm limit settings, and calibration. User can recall and delete specified readings easily.

User does all operations via standard menu so easily. User can press the CAL button to start multi-point calibration freely.



TECHNICAL SPECIFICATION

Name	Probe F	Probe N
Measuring principle	Magnetic induction	Eddy Currents
Measuring range	0 to 1300um(0 to 51.2mils)	0 to 1300um(0 to 51.2mils)
Accuracy	±(3%+1um) ±(3%+0.039mils)	±(3%+1um) ±(3%+0.039mils)
Resolution	0um~999(1um) 1000um~1300um(0.01mm) 0mils~39.39mils(0.01mils) 39.4mils~51.2mils(0.1mils)	0um~999um(1um) 1000um~1300um(0.01mm) 0mils~39.39mils(0.01mils) 39.4mils~51.2mils(0.1mils)
Calibration	One point to four point calibration, zero point calibration, Basic	
Data group	One direct group(readings not be stored to memory) Four general group(readings will be stored automatically) NOTE:each group have individual statistics, alarm limit settings and calibration	
Statistics	No. of readings, mean, minimum, maximum and standard deviation	
Units	um, mm, mils	
Alarm	User can set the high/low alarm limit ,Alarm icon displayed on LCD when over the limit	
Minimum curvature radius	convex 1.5mm	
Minimum curvature radius concave	2.5mm	
Minimum measuring area	Diameter 6mm	
Minimum thickness or substrate	0.5mm(0.02)"	0.3mm(0.012)"
Maximum measuring rate	TWO readings per second	
Computer interface	Download data via USB	
Power supply	TWO 1.5V AAA battery	
Operation environment	Temperature:0 to 40°C(32 to 104F);humidity:20% to 90%rh	
Storage environment	Temperature:-20 to 70°C(-4to 158F)	
Standard compliance	ASTM B 499, ASTM D 1400, BS 3900-C5-6B, DIN 50981,DIN 50984, ISO 1461	
Size	110mmx53mmx24mm(4.33"x2.09"x0.94)"	
Case Material	ABS; 92g(3.24oz)	

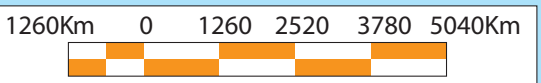
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