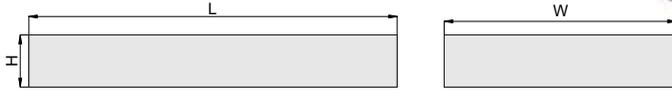


SERIES 611

GRANITE SURFACE PLATE



- ◆ Made of fine-grained granite
- ◆ Customized size can be ordered



Grade 00

Code	Size(LxWxH)	Flatness	Weight(Kg)
611-032-00	300x200x60mm	2.7µm	11
611-042-00	400x250x60mm	2.9µm	18
611-044-00	400x400x60mm	3.1µm	29
611-053-00	500x315x70mm	3.2µm	33
611-064-00	630x400x80mm	3.5µm	60
611-066-00	630x630x100mm	3.8µm	119
611-085-00	800x500x100mm	3.9µm	120
611-106-00	1000x630x140mm	4.4µm	265
611-107-00	1000x750x150mm	4.5µm	337
611-101-00	1000x1000x150mm	4.8µm	450
611-121-00	1200x800x160mm	4.9µm	461
611-161-00	1600x1000x180mm	5.8µm	864
611-201-00	2000x1000x220mm	6.5µm	1320
611-215-00	2000x1500x250mm	7.0µm	2250

Grade 0

611-032-00

Code	Size(LxWxH)	Flatness	Weight(Kg)
611-032-10	300x200x60mm	5.4µm	11
611-042-10	400x250x60mm	5.9µm	18
611-044-10	400x400x60mm	6.3µm	29
611-053-10	500x315x70mm	6.4µm	33
611-064-10	630x400x80mm	7.0µm	60
611-066-10	630x630x100mm	7.6µm	119
611-085-10	800x500x100mm	7.8µm	120
611-106-10	1000x630x140mm	8.7µm	265
611-107-10	1000x750x150mm	9.0µm	337
611-101-10	1000x1000x150mm	9.7µm	450
611-121-10	1200x800x160mm	9.8µm	461
611-161-10	1600x1000x180mm	11.5µm	864
611-201-10	2000x1000x220mm	12.9µm	1320
611-215-10	2000x1500x250mm	14.0µm	2250

With manufacturer inspection certificate

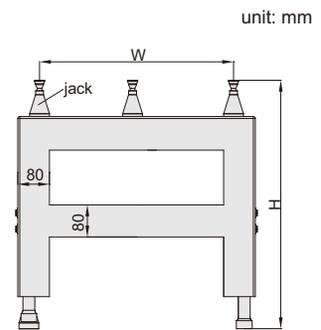
SERIES 621

STAND FOR GRANITE SURFACE PLATE

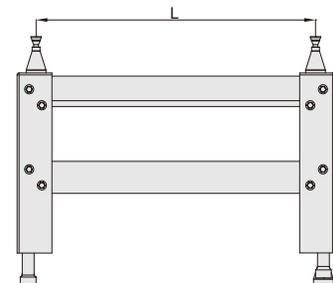
- ◆ For medium size granite surface plates
- ◆ Adjusting range of jacks: 10mm
- ◆ One foot on the bottom is adjustable
- ◆ The height can be made under customer requirement



621-064-01



Code	L	W	H	For granite surface plate
621-064-01	352	224	700-710	630x400x80mm
621-066-01	352	352	700-710	630x630x100mm
621-085-01	448	280	700-710	800x500x100mm
621-106-01	560	352	685-695	1000x630x140mm
621-107-01	560	416	685-695	1000x750x150mm
621-101-01	560	560	685-695	1000x1000x150mm
621-121-01	672	448	685-695	1200x800x160mm
621-161-01	896	560	585-595	1600x1000x180mm



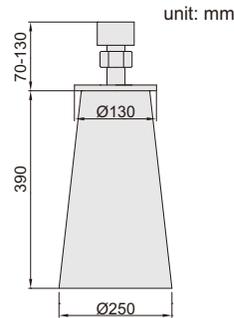


625

JACK SET FOR GRANITE SURFACE PLATE



- ◆ 5 jacks per set
- ◆ Adjustable height
- ◆ For large granite surface plates:
 - 2000x1000mm
 - 2000x1500mm
 - 2500x1500mm
 - 3000x2000mm



Code

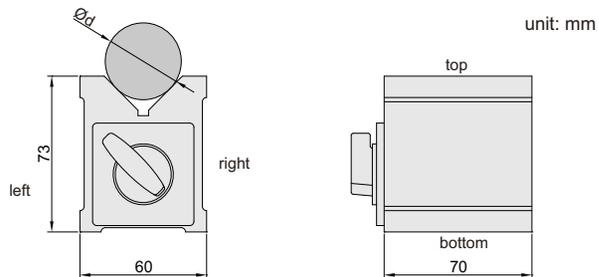
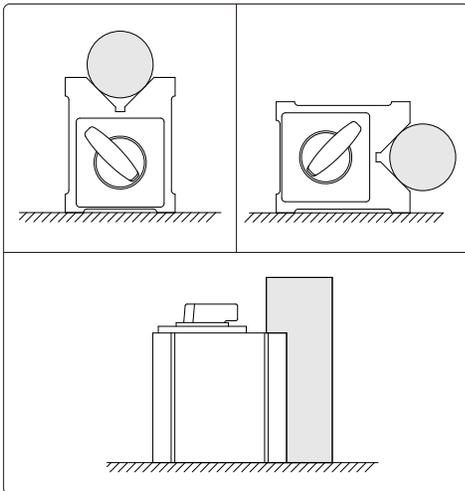
625-000-00

633

MAGNETIC V-BLOCK

**ATTENTION:
NOT HARDENED**

- ◆ Hold cylindrical workpiece for inspection and machining



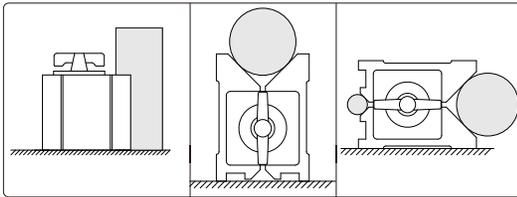
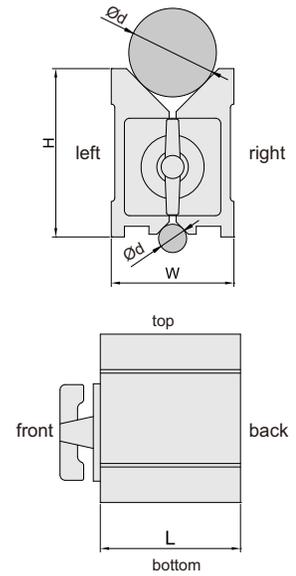
Code	For shaft range(Ød)	Magnetic force	Top and bottom, left and right parallelism	V-grooves and back side squareness
633-044-01	6-44mm	56kgf	10µm	10µm

SERIES 634

MAGNETIC V-BLOCK

**ATTENTION:
NOT HARDENED**

- ◆ Hold cylindrical workpiece for inspection and machining
- ◆ Top groove for large shafts
- ◆ Bottom grooves for small shafts



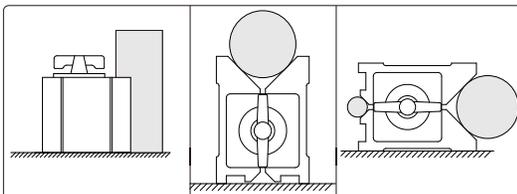
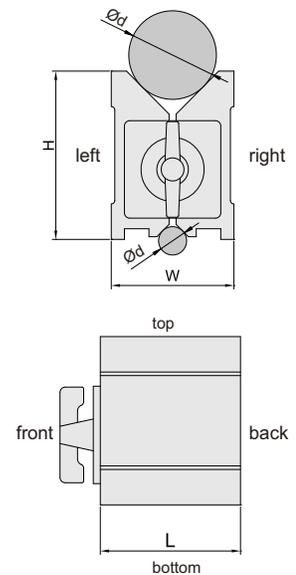
634-067-01

Code	Size(LxWxH)	For shaft range(Ød)	Magnetic force	V-grooves and back side squareness	Top and bottom, left and right parallelism
634-067-01	80x70x95mm	6-67mm	64kgf	10µm	10µm
634-067-02	100x70x95mm	6-67mm	80kgf	10µm	10µm
634-067-03	120x70x95mm	6-67mm	96kgf	10µm	10µm

SERIES 634

MAGNETIC V-BLOCK (PROFESSIONAL TYPE)

- ◆ Hardened, high accuracy, for grinding, milling, drilling and inspection of round and square workpieces
- ◆ All working surfaces are hardened to HRC55-60°
- ◆ Hold cylindrical workpiece for inspection and machining
- ◆ Top groove for large shafts
- ◆ Bottom grooves for small shafts



634-067-01H

Code	Size(LxWxH)	For shaft range(Ød)	Magnetic force	V-grooves and back side squareness	Top and bottom, left and right parallelism
634-067-01H	80x70x95mm	6-67mm	64kgf	5µm	5µm
634-067-02H	100x70x95mm	6-67mm	80kgf	5µm	5µm
634-067-03H	120x70x95mm	6-67mm	96kgf	6µm	6µm



SERIES 635

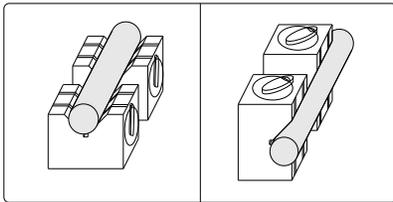
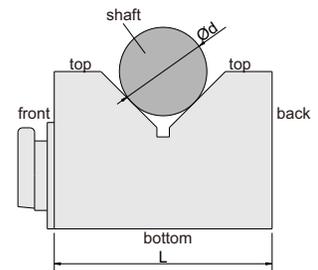
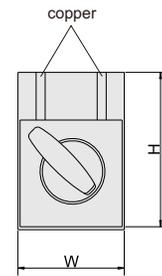
MAGNETIC V-BLOCK SET

**ATTENTION:
NOT HARDENED**

- ◆ Hold cylindrical workpieces for inspection, not suitable for machining due to weak magnetic force
- ◆ Two V-blocks per set
- ◆ Hardness HRB 70



635-150-01



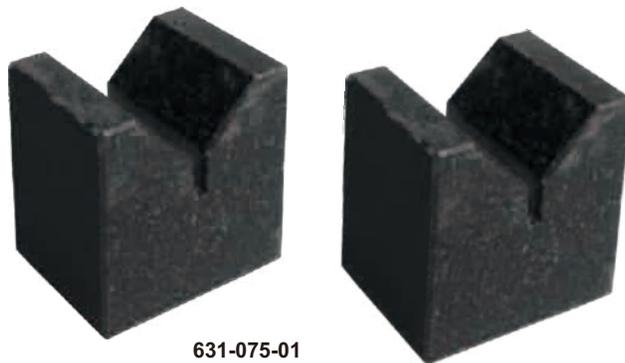
Code	Size(LxWxH)	Range of shafts (Ød)	Magnetic force	Parallelism of V groove to bottom and back sides	Height difference of a matched pair
635-070-01	70x40x50mm	6 - 46mm	8kgf	10µm	10µm
635-150-01	150x50x100mm	6 - 125mm	14kgf	10µm	10µm

SERIES 631

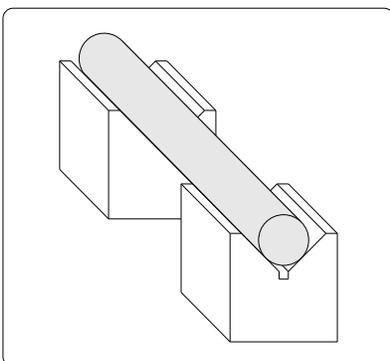
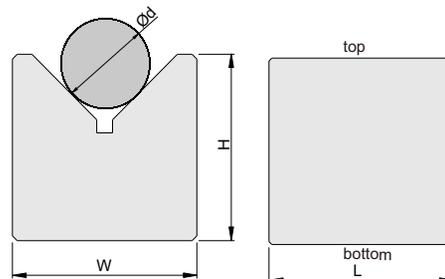
GRANITE V-BLOCK SET



- ◆ Supplied a pair, for holding long cylindrical workpiece



631-075-01



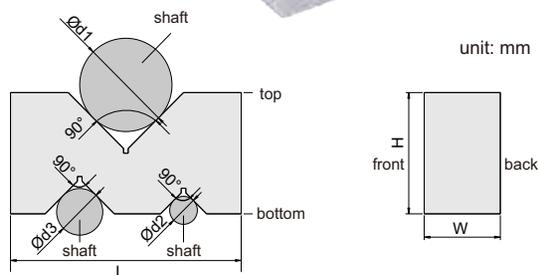
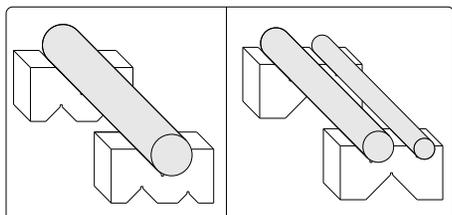
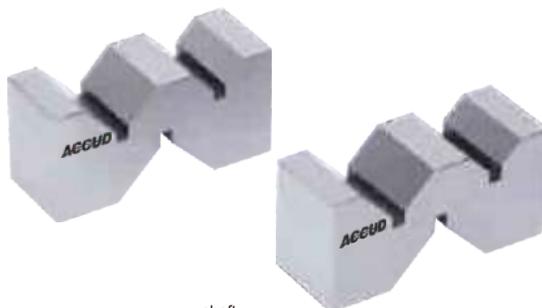
Code	Size(LxWxH)	For shaft range(Ød)	Parallelism between top and bottom, left and right	Height difference between a pair
631-075-01	50x70x70mm	6 - 70mm	5µm	5µm
631-099-01	50x100x70mm	6 - 84mm	5µm	5µm

With manufacturer inspection certificate

SERIES 632

V-BLOCK SET

- ◆ Two V blocks per set
- ◆ Made of hardened tool steel

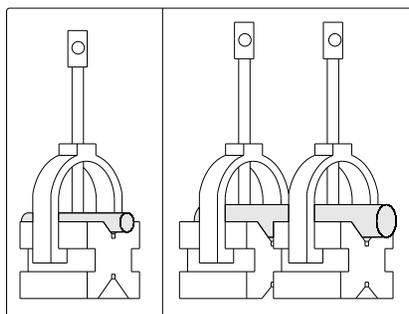


Code	Size (LxWxH)	Range of shafts(Ød1)	Range of shafts(Ød2)	Range of shafts(Ød3)	Parallelism of V grooves to top and bottom sides	Squareness of V grooves to front and back sides	Height difference of a matched pair
632-002-01	50x19x24mm	3-32mm	3-16mm	3-22mm	5µm	5µm	5µm
632-003-01	75x24x35mm	3-50mm	3-20mm	3-32mm	5µm	5µm	5µm
632-004-01	100x33x52mm	6-68mm	5-26mm	5-40mm	5µm	5µm	5µm
632-006-01	150x50x80mm	6-100mm	5-40mm	5-60mm	5µm	5µm	5µm

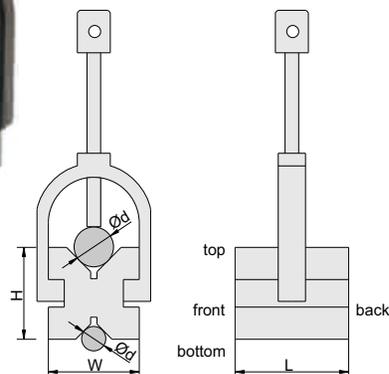
SERIES 636

V-BLOCK SET

- ◆ 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



636-045-01



Code	Size(LxWxH)	For shaft range(Ød)	V grooves to top and bottom sides parallelism	V grooves to front and back sides squareness	Height difference of a matched pair
636-045-01	45x41x35mm	5-40mm	5µm	5µm	5µm
636-070-01	70x63x44mm	7-60mm	5µm	5µm	5µm
636-125-01	125x90x70mm	7-80mm	5µm	5µm	5µm



SERIES 637

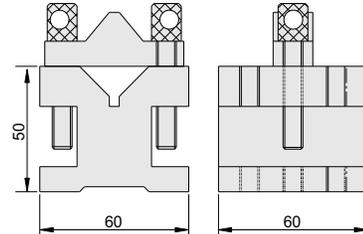
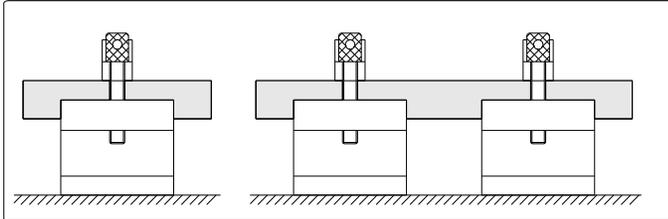
V-BLOCK SET

- ◆ Hold cylindrical workpieces for inspection and machining
- ◆ Two V-blocks per set
- ◆ V groove on the top for large shafts



637-035-01

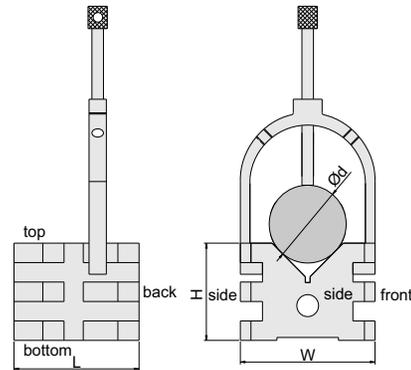
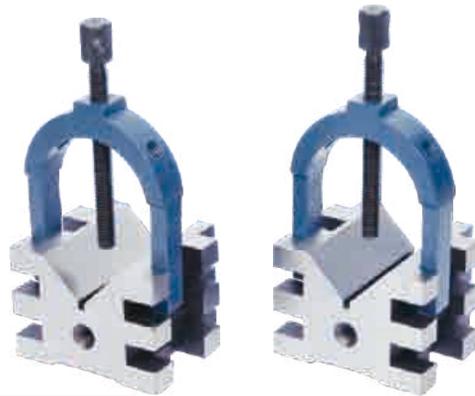
unit: mm



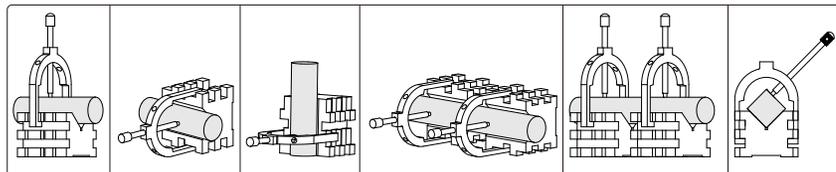
Code	Size(LxWxH)	For shaft range(Ød)	V grooves to top and bottom sides parallelism	V grooves to front and back sides squareness	Height difference of a matched pair
637-035-01	35x35x30mm	3 - 16mm	5µm	5µm	5µm
637-060-01	60x60x50mm	5 - 34mm	5µm	5µm	5µm
637-105-01	105x105x78mm	8 - 66mm	5µm	5µm	5µm

638

V-BLOCK SET



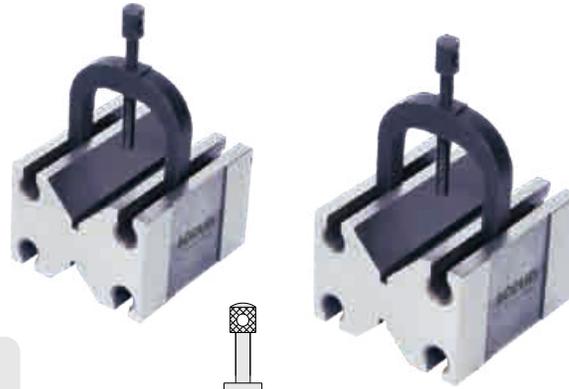
- ◆ Hold cylindrical or rectangular workpieces for inspection and machining
- ◆ Two V-blocks per set
- ◆ Hardened to HRC60±2
- ◆ Applicable for cylinder with diameter (Ød): 5 - 50mm
- ◆ Applicable for rectangular workpieces with thickness: ≤35mm



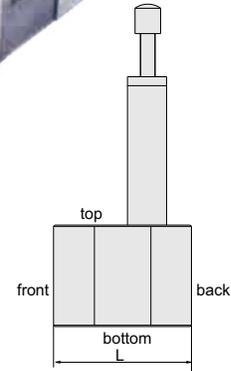
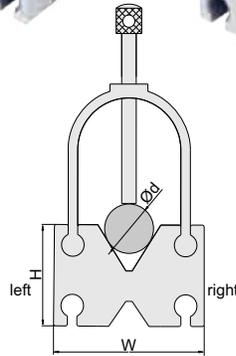
Code	Size (LxWxH)	Parallelism of V groove to top and bottom sides	Squareness of V groove to front and back sides	Height difference of a matched pair
638-070-01	60x70x50mm	8µm	8µm	8µm

640

V-BLOCK SET



- ◆ Hold cylindrical workpieces for inspection and machining
- ◆ Two V-blocks per set
- ◆ Side lie-down use is possible
- ◆ Hardened to HRC60±2
- ◆ V groove on the top for large shafts
- ◆ V groove on the bottom for small shafts



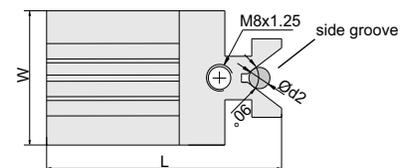
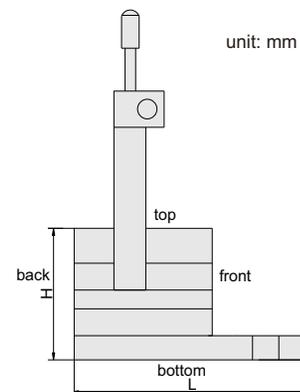
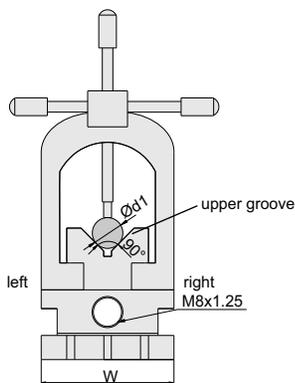
Code	Size (LxWxH)	Range of shafts ($\varnothing d$)	Parallelism of both V grooves to top, bottom, left, right sides	Squareness of both V grooves to front and back sides	Height difference of a matched pair
640-001-01	65x70x45mm	4-35mm	5 μ m	5 μ m	5 μ m

V-BLOCK

639

V-BLOCK

- ◆ Hold cylindrical workpieces for inspection and machining
- ◆ Hardened to HRC60±2



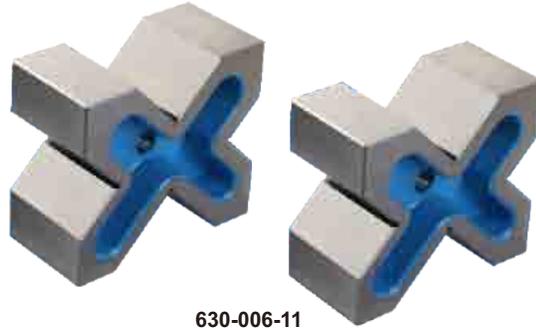
Code	Size (LxWxH)	Range of shafts ($\varnothing d1$ and $\varnothing d2$)	Parallelism of upper groove to bottom, left and right sides	Squareness of upper groove to back side	Parallelism of side groove to back side
639-090-01	90x48x48mm	5-33mm	5 μ m	5 μ m	5 μ m



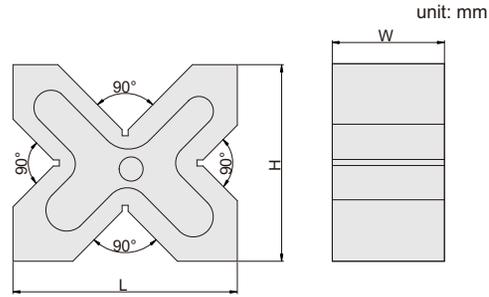
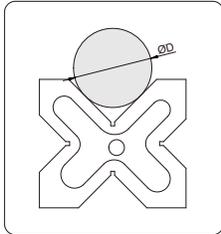
SERIES 630

V-BLOCK SET

- ◆ For positioning cylindrical workpieces
- ◆ Two V-blocks per set
- ◆ Each V-block has four 90° V-grooves
- ◆ Hardness HB 170-241



630-006-11



Code	Size(LxHxW)	Range of shafts(Ød)	Parallelism of four grooves to all sides	Height difference of a matched pair
630-006-11	150×130×75mm	8-120mm	15µm	20µm
630-008-11	200×170×90mm	12-180mm	15µm	20µm

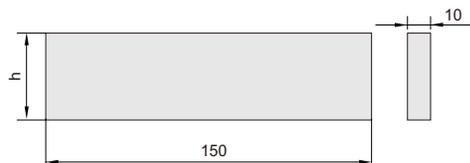
641

PARALLEL SET

- ◆ Parallelism between top and bottom: 5µm
- ◆ Height difference of a matched pair: 5µm
- ◆ Hardened to HRC55-60



unit: mm

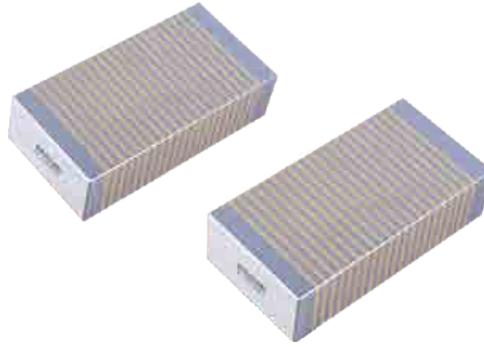


Code	Parallels per set	Length	Thickness	Height(h)
641-014-01	14pairs	150mm	10mm	14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40, 45, 50mm

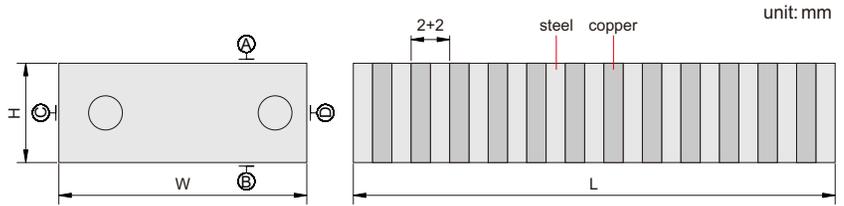
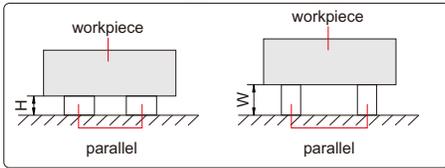
615

MAGNETIC INDUCTION PARALLEL SET

- ◆ To be used on magnetic chucks
- ◆ Two parallels per set
- ◆ Hardness HRB70
- ◆ Copper magnetic strips



Application



Code	Size(LxWxH)	Pole pitch	Parallelism between A and B	Parallelism between C and D	Height difference of a matched pair
615-004-02	100x50x25mm	2+2mm	10µm	10µm	10µm

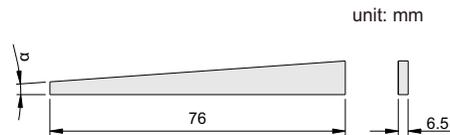
SERIES 571

ANGLE GAUGE BLOCK SET

- ◆ For angle set-up in tooling, production and inspection
- ◆ Hardness HRC55



571-010-02



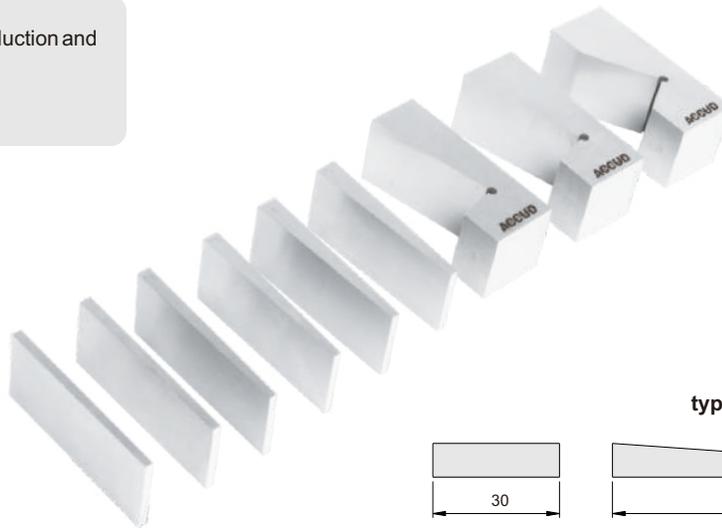
Code	Blocks per set	Accuracy	Sharp	Angle
571-010-02	10	±20"	triangle	1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25°, 30°
571-012-01	12	±20"	triangle	1/4°, 1/2°, 1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25°, 30°



646

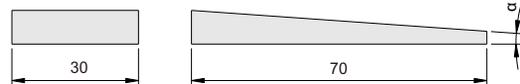
UNIVERSAL ANGLE PLATE SET

- ◆ For angle set-up in tooling, production and inspection
- ◆ Hardness HRC55

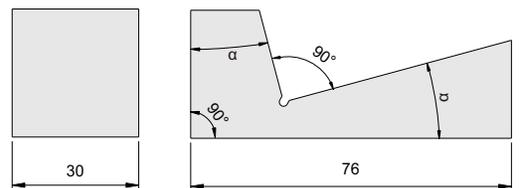


unit: mm

type A



type B



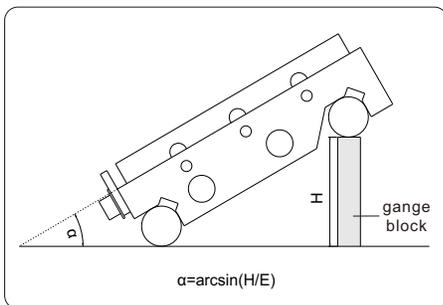
Code	Quantity	Angle α	Type	Accuracy
646-009-01	9pcs	1/2°, 1°, 2°, 3°, 4°, 5°	type A	±1'
		10°, 15°, 30°	type B	

SERIES 651

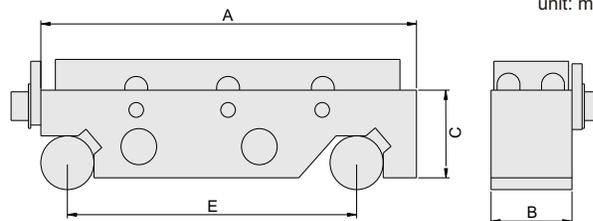
SINE BAR



651-005-01



unit: mm

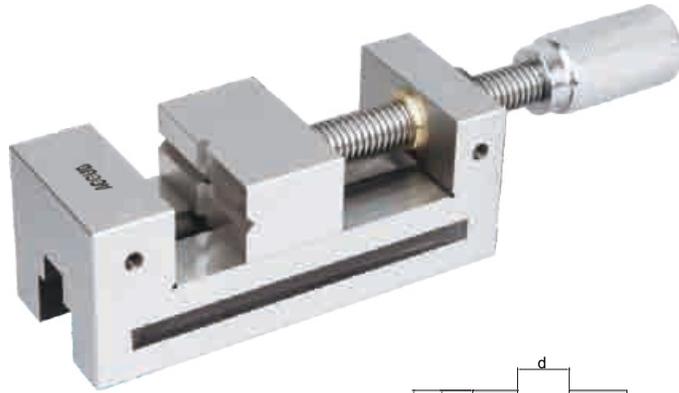


Code	Roller distance (E)	Table size (AxB)	Accuracy of α at 30°	C
651-005-01	100mm	130x25mm	±8"	25
651-005-02	100mm	130x83mm	±16"	30
651-010-01	200mm	250x40mm	±8"	40
651-010-02	200mm	250x85mm	±16"	40

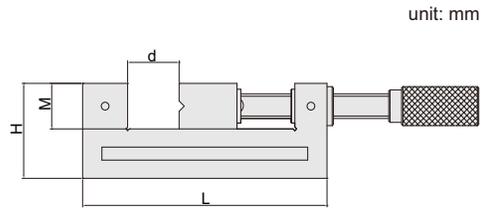
SERIES 652

PRECISION VISE

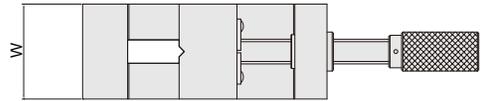
- ◆ Parallelism: 5µm/100mm
- ◆ Squareness: 5µm/100mm
- ◆ Made of alloy steel
- ◆ Hardness HRC56-58



652-120-01



unit: mm



Code	Jaw opening(d)	Jaw width(W)	L	H	M
652-073-01	73mm	63mm	176	63	30
652-076-01	76mm	73mm	190	73	35
652-120-01	120mm	98mm	255	82	40

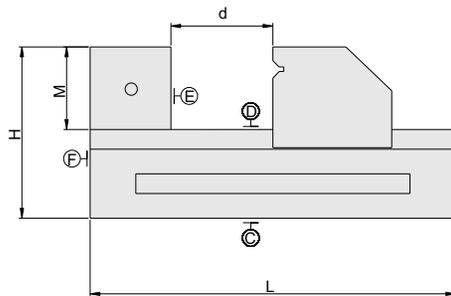
SERIES 653

PRECISION VISE

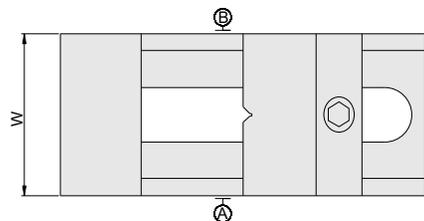
- ◆ Made of hardened alloy steel
- ◆ Parallelism and squareness between A, B, C, D, E and F: 5µm/100mm
- ◆ Hardness HRC56-58



653-003-01



unit: mm



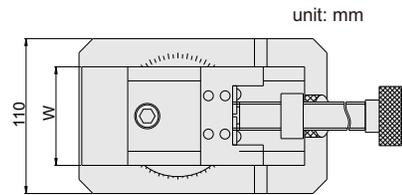
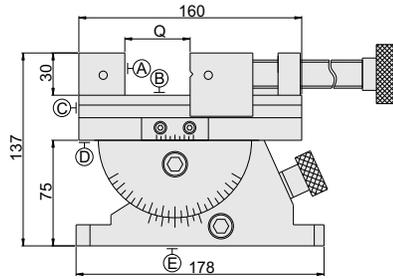
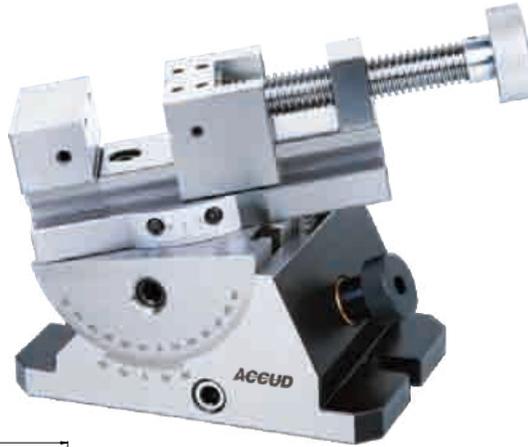
Code	Jaw opening(d)	Jaw width(W)	L	H	M
653-003-01	80mm	50mm	150	53	25
653-005-01	100mm	73mm	190	70	35



656

PRECISION UNIVERSAL VISE

- ◆ 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

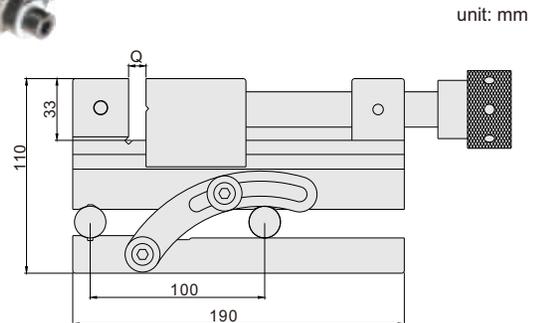
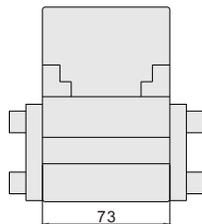


Code	Jaw opening(Q)	Jaw width(W)
656-080-01	0-80mm	70mm

657

PRECISION SINE VISE

- ◆ Parallelism: 3µm/100mm
- ◆ Squareness: 5µm/100mm
- ◆ Accuracy of angle: ±20"
- ◆ Made of SKS tool steel, subzero treatment
- ◆ Hardness HRC58-60

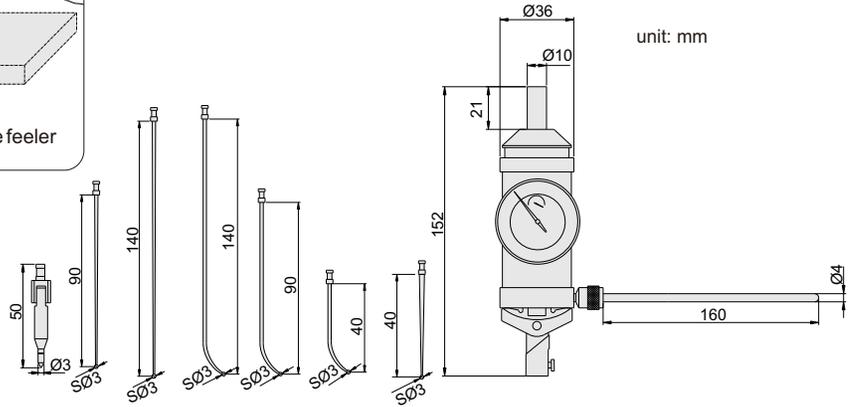
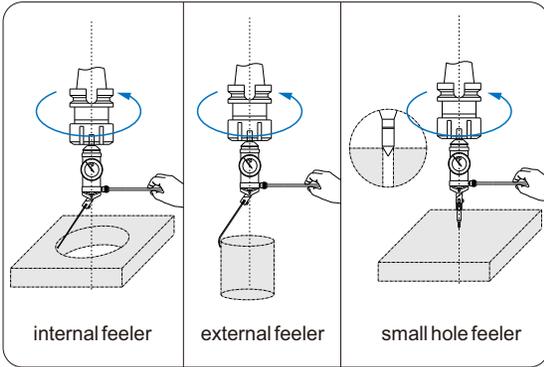


Code	Jaw opening (Q)	Jaw width	Adjustable angle
657-090-01	0-90mm	73mm	0-45°

297

CENTERING INDICATOR

- ◆ For quick and accurate centering in boring and milling set-up
- ◆ Jeweled bearing
- ◆ Supplied with 7 type feelers



Code

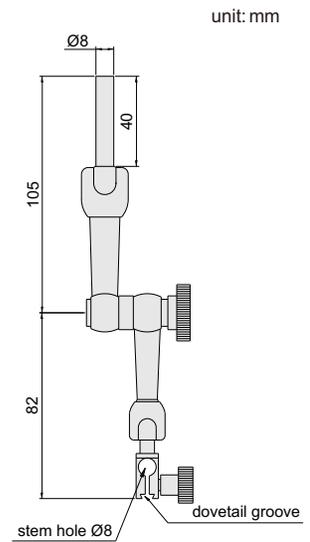
297-003-11

685

DIAL TEST INDICATOR CENTERING HOLDER

- ◆ Center cylinders or holes on machine tools
- ◆ Can be used with dial test indicators

Application



Code

685-040-01



686

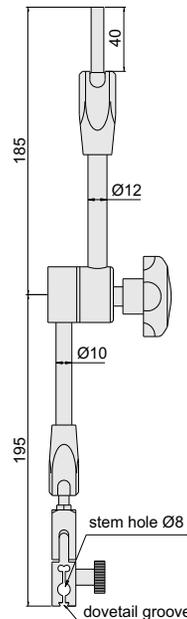
INDICATOR CENTERING HOLDER

- ◆ Center cylinders or holes on machine tools
- ◆ Can be used with dial test indicators or dial indicators

Application



unit: mm



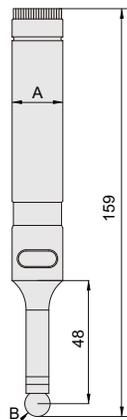
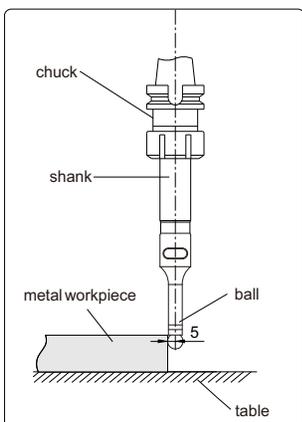
Code

686-080-01

SERIES 692

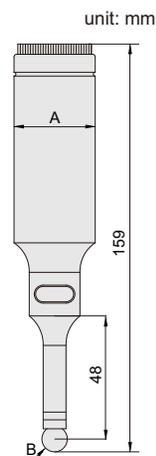
ELECTRONIC EDGE FINDER

- ◆ The LED will be light with alarm when the ball contacts the workpiece
- ◆ Not suitable for rotating use
- ◆ Hardened shank and contact point
- ◆ Battery: 23A, 12V



692-010-03N

692-010-32



unit: mm

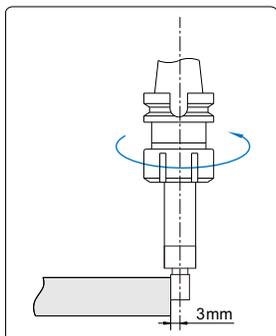
Code	Shank(A)	Contact point (B)	Accuracy
692-010-03N	Ø20mm	SØ10mm	5µm
692-010-32	Ø32mm	SØ10mm	5µm

SERIES 693

NON-MAGNETIC EDGE FINDER

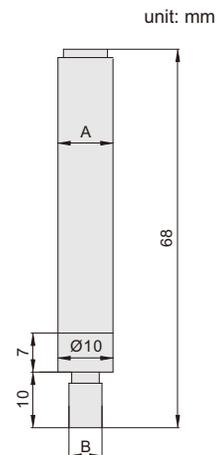


- ◆ Non-magnetic
- ◆ TIN coating, hardness HV2300, extremely wear resistance
- ◆ Suitable for machine speed 400~600rpm



693-010-01N

693-010-31

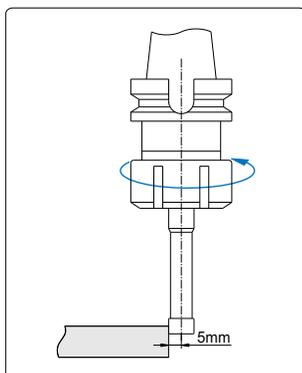


Code	Shank(A)	Contact surface(B)	Accuracy	Titanium plated
693-010-01N	Ø10mm	Ø6mm	5µm	without
693-010-31	Ø10mm	Ø6mm	5µm	with

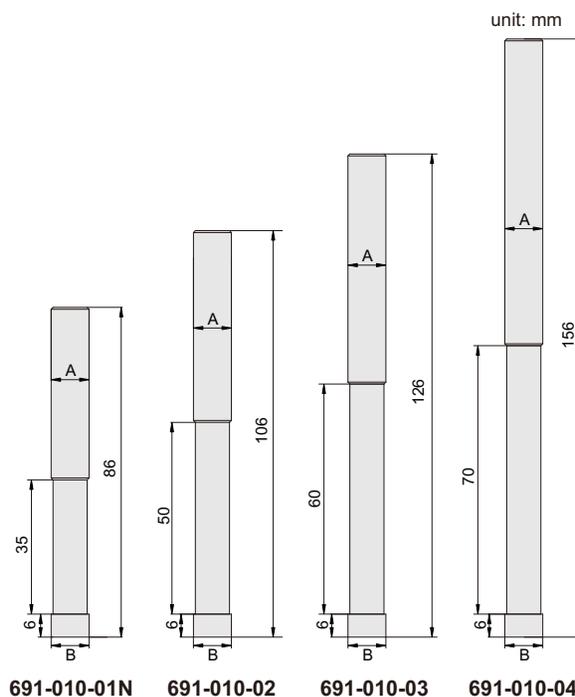
SERIES 691

CERAMIC EDGE FINDER

- ◆ Ceramic contact point, non magnetic
- ◆ Hardened shank
- ◆ Suitable for machine speed: 400-600rpm



691-010-01N



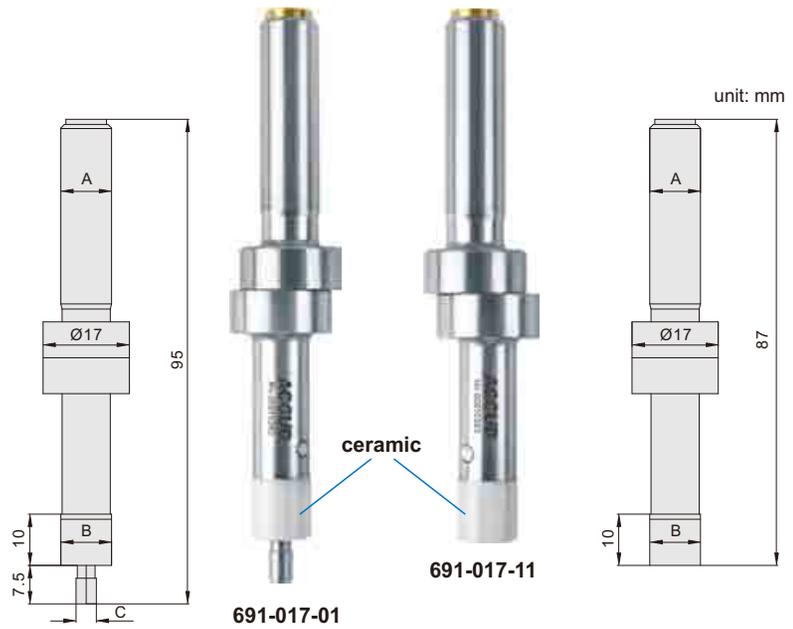
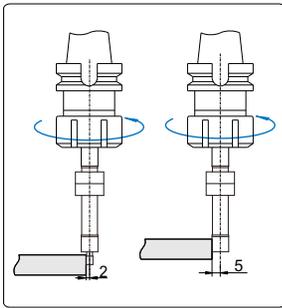
Code	Shank(A)	Contact point (B)	Accuracy
691-010-01N	Ø10mm	Ø10mm	5µm
691-010-02	Ø10mm	Ø10mm	5µm
691-010-03	Ø10mm	Ø10mm	5µm
691-010-04	Ø10mm	Ø10mm	5µm

SERIES 691

CERAMIC EDGE FINDER



- ◆ Non-magnetic
- ◆ CrN coating, hardness HV2000, extremely wear resistance
- ◆ Suitable for machine speed 400~600rpm

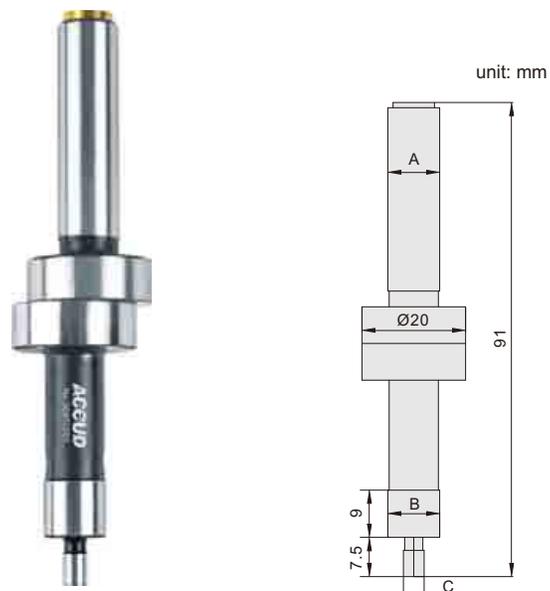
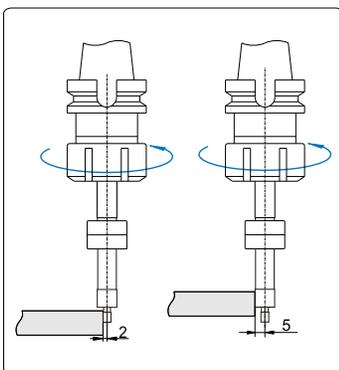


Code	Shank(A)	Contact point(B)	Contact point(C)	Accuracy
691-017-01	Ø10mm	Ø10mm	Ø4mm	5µm
691-017-11	Ø10mm	Ø10mm	-	5µm

694

EDGE FINDER

- ◆ Hardened shank and contact point
- ◆ Suitable for machine speed 400~600rpm



Code	Shank(A)	Contact point(B)	Contact point(C)	Accuracy
694-020-01N	Ø10mm	Ø10mm	Ø4mm	5µm

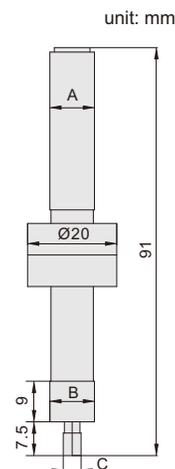
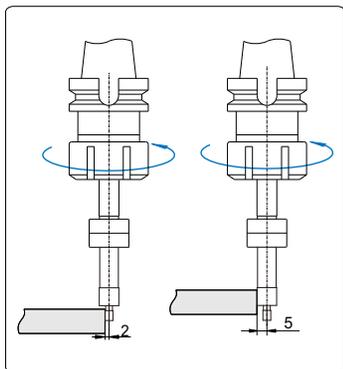


SERIES 694

NON-MAGNETIC EDGE FINDER



- ◆ Non-magnetic
- ◆ TIALN coating, hardness HV3500; TIN coating, hardness Hv2300, extremely wear resistance
- ◆ Suitable for machine speed 400~600rpm

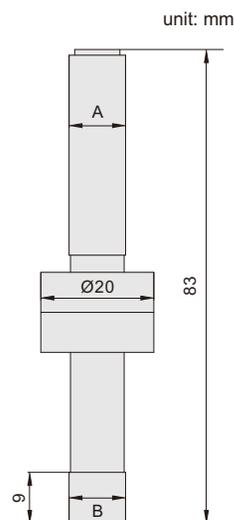
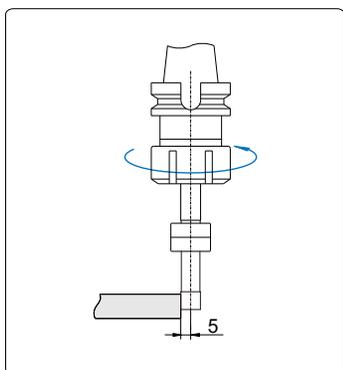


Code	Shank(A)	Contact point(B)	Contact point(C)	Accuracy
694-020-02	Ø10mm	Ø10mm	Ø4mm	5µm
694-020-03	Ø10mm	Ø10mm	Ø4mm	5µm

694

EDGE FINDER

- ◆ Hardened shank and contact point
- ◆ Suitable for machine speed 400~600rpm



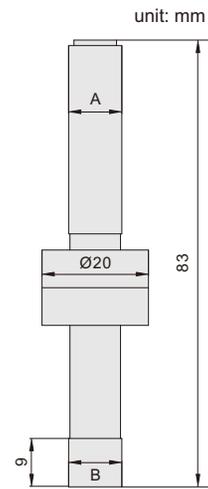
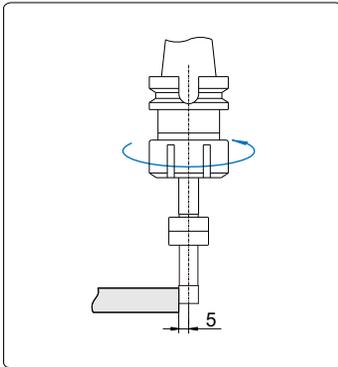
Code	Shank(A)	Contact point(B)	Accuracy
694-020-11	Ø10mm	Ø10mm	5µm

SERIES 694

NON-MAGNETIC EDGE FINDER



- ◆ Non-magnetic
- ◆ TIALN coating, hardness HV3500;
TIN coating, hardness HV2300,
extremely wear resistance
- ◆ Suitable for machine speed 400~600rpm



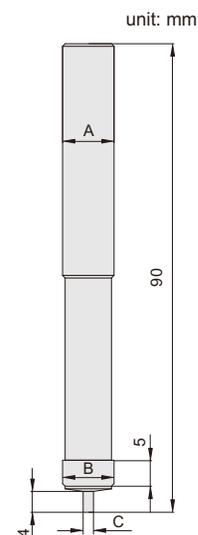
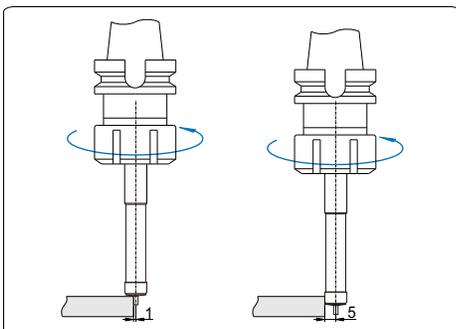
Code	Shank(A)	Contact point(B)	Accuracy
694-020-12	Ø10mm	Ø10mm	5µm
694-020-13	Ø10mm	Ø10mm	5µm

689

NON-MAGNETIC EDGE FINDER



- ◆ Non-magnetic
- ◆ TIN coating, hardness HV2300,
extremely wear resistance
- ◆ Suitable for machine speed 400~600rpm



Code	Shank(A)	Contact point(B)	Contact point(C)	Accuracy
689-010-02	Ø10mm	Ø10mm	Ø2mm	5µm

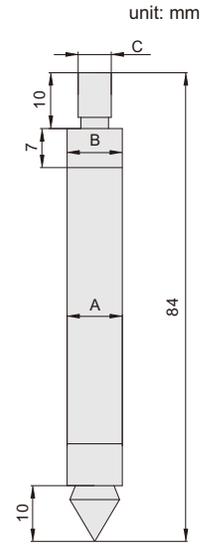
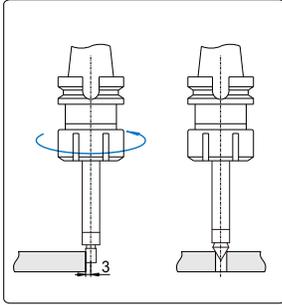


690

NON-MAGNETIC EDGE FINDER (DOUBLE HEAD)



- ◆ Non-magnetic
- ◆ TIN coating, hardness HV2300, extremely wear resistance
- ◆ Suitable for machine speed 400~600rpm
- ◆ Find edge or hole center



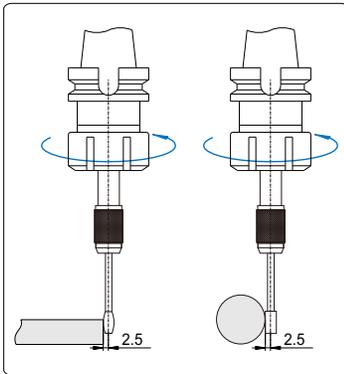
Code	Shank(A)	Contact point(B)	Contact point(C)	Accuracy
690-010-01	Ø10mm	Ø10mm	Ø6mm	5µm

SERIES 688

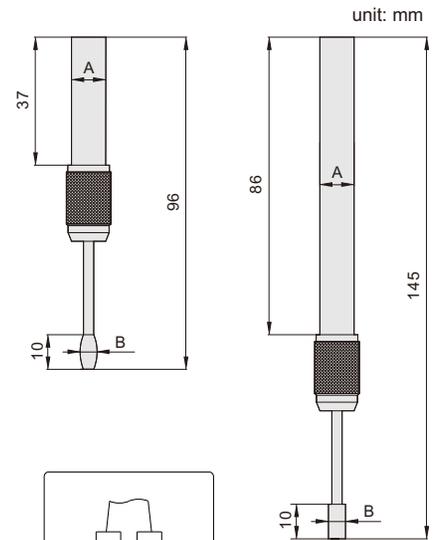
EDGE FINDER (WITH ROTARY HEAD)



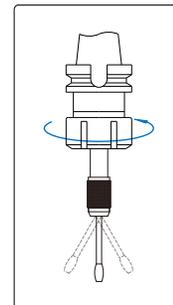
- ◆ Non-magnetic
- ◆ TIN coating, hardness HV2300, extremely wear resistance
- ◆ Suitable for machine speed 500~2000rpm



688-010-01



Code	Shank(A)	Contact point(B)	Accuracy	Application
688-010-01	Ø10mm	Ø5mm	5µm	flat surface
688-010-12	Ø10mm	Ø5mm	5µm	arc surface

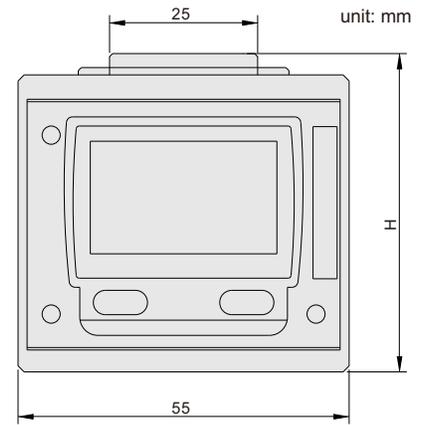


697

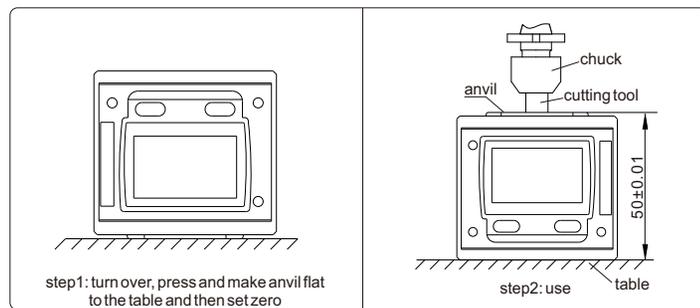
DIGITAL ZERO SETTER



- ◆ IP65 protection level
- ◆ Magnetic base
- ◆ With backlight, will turn on automatically when close to zero ($\pm 0.002\text{mm}$)
- ◆ Turn off automatically



Application

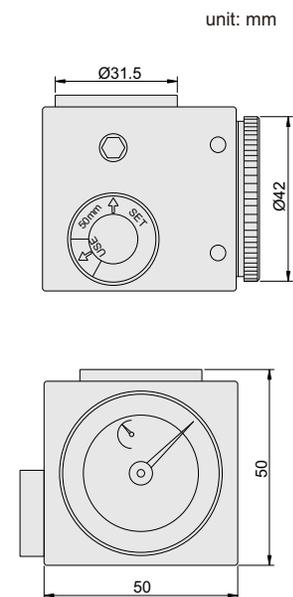
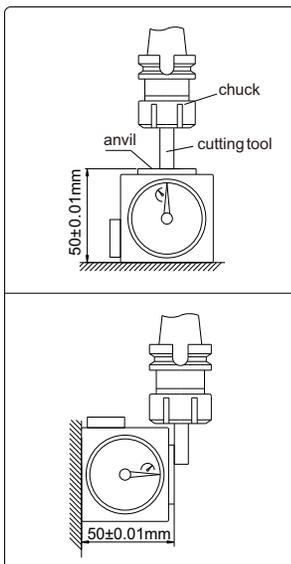


Code	Accuracy
697-050-01	$\pm 10\mu\text{m}$

695

ZERO SET

- ◆ Magnetic base

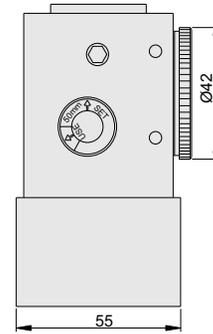
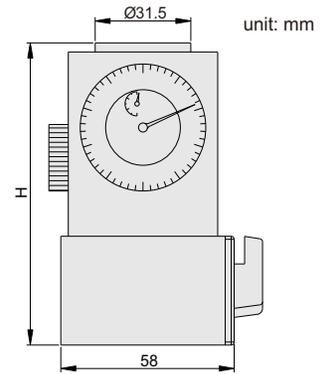
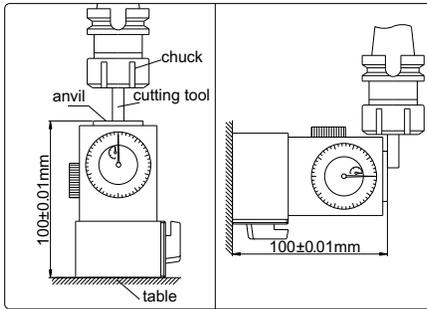


Code	Accuracy
695-050-01	$\pm 10\mu\text{m}$

696

ZERO SET

- ◆ Magnetic base with on/off switch



Code	Height (H)	Accuracy	Force
696-100-01	100mm	±10µm	9N

MEASURING
TOOL SET

EDGE-FINDER
ZERO SET

SERIES 280

2-PIECE MEASURING TOOLS SET



280-000-02

Package



Code	Include
280-000-02	10mm dial indicator (222-010-11) Magnetic stand (281-060-01)
280-001-02	1 inch dial indicator (225-025-11) Magnetic stand (281-060-01)

ST200

ULTRASONIC THICKNESS GAUGE



- ◆ Measure the thickness of tank, pipe and big workpiece
- ◆ LCD with backlight
- ◆ With manufacturer inspection certificate



Transducer PT-06 (optional)



Transducer ZT-12 (optional)



Transducer GT-12 (optional)



SPECIFICATION

Graduation	0.01mm(<100mm)
	0.1mm(≥100mm)
Repeatability	0.03mm(<100mm)
	0.1mm(≥100mm)
Accuracy	±0.04mm (<10mm)
	±(0.04+H/1000)mm (10~100mm)
	±H/333mm (≥100mm)
	H is the thickness in mm
Velocity	1000-9999m/s
Power	3×AAA batteries
Dimension	69×150×29mm
Weight	220g

INCLUDED ACCESSORIES

Main unit	1pc
Transducer PT-08	1pc
AAA battery	3pcs
Couplant	1bottle
USB cable	1pc

OPTIONAL ACCESSORIES

Transducer	PT-06, ZT-12, GT-12
------------	---------------------

SPECIFICATION OF TRANSDUCERS

Code	Application	Range	Frequency	Min. pipe dimension diameter×thickness	Working temperature
PT-08	general use	0.8-300mm	5.0MHz	20×1.2mm	<60°C
PT-06	thin workpiece	0.75-40mm	7.5MHz	15×1.2mm	<60°C
ZT-12	casting steel	2-400mm	2.0MHz	30×4mm	<60°C
GT-12	high temperature	3-100mm	5.0MHz	25×3mm	<310°C



- ◆ Measure the thickness of tank, pipe and big workpiece
- ◆ Can measure thickness of workpiece with coating
- ◆ Wide measuring range with optional transducer
- ◆ LCD with backlight
- ◆ With manufacturer inspection certificate



Transducer **ST300-P6** (optional)



Transducer **ST300-ZT12** (optional)



Transducer **ST300-GT12** (optional)



SPECIFICATION

Graduation	0.01mm(<100mm)
	0.1mm(≥100mm)
Repeatability	0.03mm(<100mm)
	0.1mm(≥100mm)
Accuracy	±0.05mm (<10mm)
	±(0.05+H/100)mm (≥100mm) H is the thickness in mm
Max. coating thickness	1000um
Velocity	1000-9999m/s
Power	2×AA batteries
Dimension	71×150×33mm
Weight	160g

INCLUDED ACCESSORIES

Main unit	1pc
Transducer PT-10	1pc
AA battery	2pcs
Couplant	1bottle

OPTIONAL ACCESSORIES

Transducer	ST300-P6
Transducer	ST300-ZT12
Transducer	ST300-GT12
Couplant (high temperature)	ST300-CP

SPECIFICATION OF TRANSDUCERS

Code	Application	Range	Frequency	Min. pipe dimension diameter×thickness	Working temperature
PT-10	general use	1-300mm	5.0MHz	20×1.2mm	<70°C
ST300-P6	thin workpiece	0.75-35mm	7.0MHz	15×1.2mm	<70°C
ST300-ZT12	casting steel	4-500mm	2.0MHz	30×5mm	<70°C
ST300-GT12	high temperature	4-80mm	5.0MHz	25×5mm	<480°C

ST100A

ULTRASONIC THICKNESS GAUGE



- ◆ Measure the thickness of tank, pipe and big workpiece
- ◆ LCD with backlight
- ◆ With manufacturer inspection certificate



SPECIFICATION

Measuring range	1.2-225mm(steel)
Graduation	0.01mm(<100mm)
	0.1mm(≥100mm)
Repeatability	0.05mm(<100mm)
	0.1mm(≥100mm)
Accuracy	±0.5%L+0.04mm L is the thickness in mm
Velocity	1000-9999m/s
Min.measured tube	Ø20×3mm
Power	rechargeable battery
Dimension	64×116×27mm
Weight	220g

INCLUDED ACCESSORIES

Main unit	1pc
Transducer	1pc
Battery	1 set
Couplant	1 bottle
Brush	1pc

CFN150B

COATING THICKNESS GAUGE



- ◆ Integrated F and N type probe
- ◆ F type probe is used to measure the thickness of non-magnetic coatings (zinc, copper, enamel, plastic and so on) on magnetic substrates (iron, steel)
N type probe is used to measure the thickness of non-conductive coatings (varnish, enamel, plastic and so on) on conductive substrates (zinc, copper, aluminum)
- ◆ Large display screen
- ◆ V-type probe to make the cylinder measurement easier
- ◆ With um/mil unit conversion
- ◆ Automatic power on/off
- ◆ With back light
- ◆ With manufacturer inspection certificate



SPECIFICATION

Range	0~1500μm
Accuracy	2μm(0~100μm)
	3%(100~1500μm)
Resolution	0.1μm (0~99.9μm)
	1μm (100~1500μm)
Min. measuring area	25×25mm
Min. curvature	convexity: 5mm; concave: 30mm
Min substrate thickness	magnetic material: 0.2mm; non magnetic material: 0.05mm
Memory	30 sets
Power supply	AAA batteries
Dimension(L×W×H)	120×52×26mm
Weight	170g

INCLUDED ACCESSORIES

Main unit	1pc
Calibration foil	1set
Calibration base	1set
AAA battery	2pcs



- ◆ F type probe is used to measure the thickness of non-magnetic coatings (zinc, copper, enamel, plastic and so on) on magnetic substracts (iron, steel)
- N type probe is used to measure the thickness of non-conductive coatings (varnish ,enamel, plastic and so on) on conductive substracts (zinc, copper, aluminum)
- ◆ External interchangeable probe
- ◆ Single and continuous working mode
- ◆ Low and high limits setting with judgement
- ◆ With average calculation
- ◆ With comparison measurement function
- ◆ With temperature compensation
- ◆ Turn off automatically
- ◆ With manufacturer inspection certificate



CN1500

SPECIFICATION

Code	CF1500H	CF1500	CN1500	CFN1500
Probe type		F	N	F and N
Range		0 ~ 1500µm		
Accuracy		2µm (0 ~ 100µm)		
		2%(100 ~ 1500µm)		
Resolution		0.1µm (0 ~ 999µm)		
		1µm (1000 ~ 1500µm)		
Memory		500		
Working temperature	-10°C~150°C		-10°C~50°C	
Power		3×AAA batteries		
Dimension(L×W×H)		150×50×29mm		
Weight		170g		

INCLUDED ACCESSORIES

Main unit	1pc
Calibration foil	1set
Calibration base	1set
USB cable	1pc
AAA battery	3pcs

CN/CF/CFN1000S

COATING THICKNESS GAUGE (BASIC TYPE)



- ◆ F type probe is used to measure the thickness of non-magnetic coatings (zinc, copper, enamel, plastic and so on) on magnetic substrates (iron, steel)
- N type probe is used to measure the thickness of non-conductive coatings (varnish, enamel, plastic and so on) on conductive substrates (zinc, copper, aluminum)
- ◆ External interchangeable probe
- ◆ Low and high limits setting with judgement
- ◆ With average/Max/Min. calculation
- ◆ Turn off automatically
- ◆ With manufacturer inspection certificate



CF1000S



probe for bores and grooves
(Code:CF1000S-F90)



probe for large range
(Code:CF1000S-F10)

SPECIFICATION

Code	CF1000S	CN1000S	CFN1000S
Probe type	F	N	F and N
Range	0 ~ 1250µm		
Accuracy	3µm (0 ~ 50µm)		
	3%+1µm (50 ~ 1250µm)		
Resolution	0.1µm (0 ~ 999µm)		
	1µm (1000 ~ 1250µm)		
Memory	500		
Power	2xAA batteries		
Dimension(LxWxH)	128x68x32mm		
Weight	340g		

INCLUDED ACCESSORIES

Main unit	1pc
Calibration foil	1set
Calibration base	1set
USB cable	1pc
AA battery	2pcs

OPTIONAL ACCESSORIES

Magnetic induction probe for bores and grooves	CF1000S-F90
Magnetic induction probe for large range (500µm-10mm)	CF1000S-F10

SERIES 740

WET FILM GAUGE

- ◆ Made of stainless steel

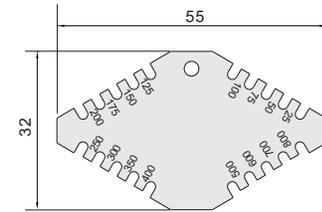
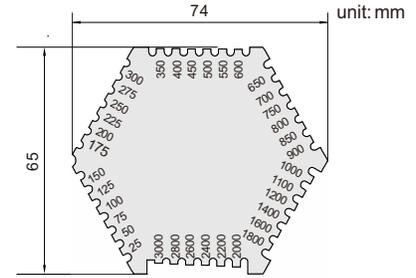
package



740-300-01



740-800-11

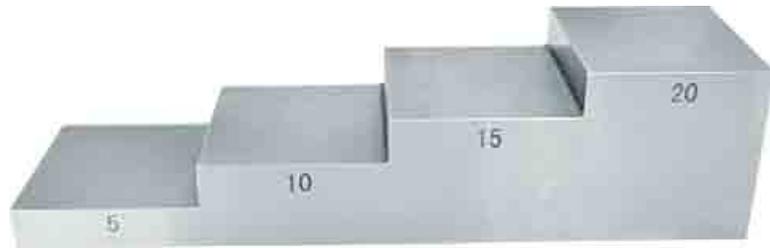


Code	Range	Accuracy	Thickness
740-800-11	25-800μm	±5μm	1.8mm
740-300-01	25-3000μm	25μm-100μm:±5μm 100μm-3000μm:±5%	1mm

SERIES STB

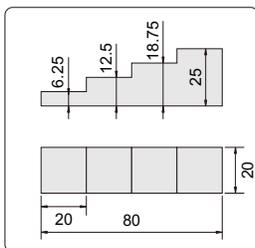
STANDARD TEST BLOCK FOR ULTRASONIC THICKNESS GAUGE

- ◆ Material of step wedge blocks can be customized
- ◆ Accuracy: ±0.02mm
- ◆ Stainless steel material: 45#

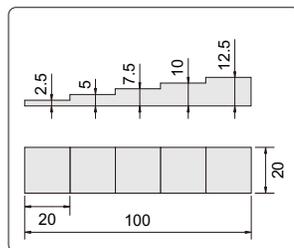


STB-4B

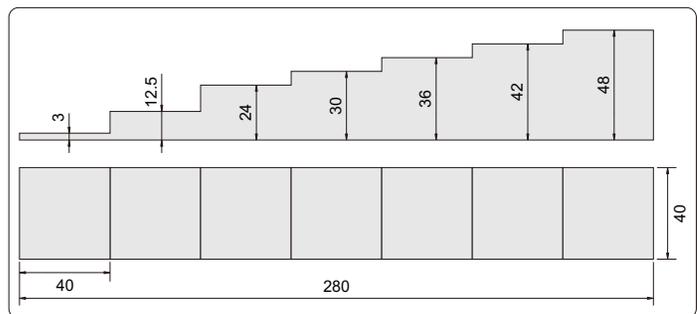
unit:mm



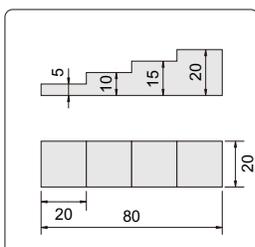
STB-4A



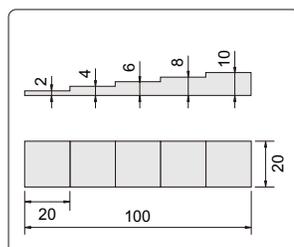
STB-5A



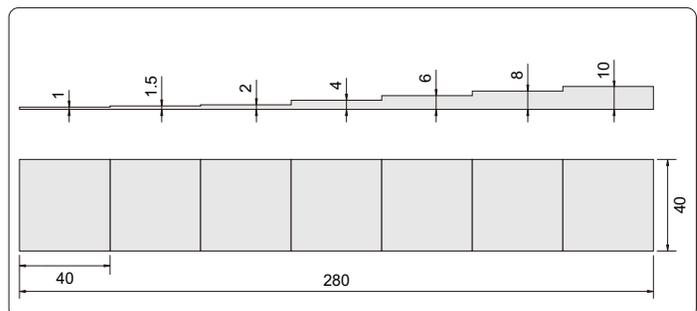
STB-7A



STB-4B



STB-5B



STB-7B

THICKNESS

- ◆ Fast and non-destructive test to identify alloy grade and composition
- ◆ For all kinds of high and low temperature alloy steel, stainless steel, tool steel, chromium/molybdenum steel, nickel alloy, cobalt alloy, nickel/cobalt heat resistant alloy, titanium alloy
- ◆ Can measure the coating thickness like PCB, range: 0.01-30μm
- ◆ IP54 dust/waterproof



Iron-base alloy	
957A C1	
304	
Monday, 28	
Element	%
Fe	71.51
Cr	18.45
Ni	8.43
Mn	1.18
Cu	0.23
V	0.09
Mo	0.05
Sn	0.02
Ti	0.02
Nb	0.00

SPECIFICATION

Excitation source	50KV/200μA; Ag target, integrated end window, micro X-ray tube and high voltage power supply, matching power≥4W
Detector	Si-PIN, window area 25mm ²
Elemental analysis range	Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Se, Zr, Nb, Mo, Rh, Pd, Ag, Cd, Sn, Sb, Hf, Ta, W, Re, Pb, Bi
Alloy analysis mode	automatically identify alloy grade/alloy material qualified test mode
Collimator filter	7 groups
Display	5-inch LCD touch screen
Analysis	3-60 sec (adjustable)
Memory	built-in 64G, storage data, >500000 groups
Data transmission	built-in WIFI, U disk, blue-tooth (support blue-tooth printer)
Data export format	EXCEL, BMP, PDF, CSV
Battery	6800mAh lithium battery, for 8 hours working time
Air pressure compensation	built-in pressure measurement module for system compensation and correction
System	Win-IOT operation system
Work environment	temperature: 0~40°C, relative humidity: 10%~90%
Dimension	250×320×80mm
Weight	1900g

INCLUDED ACCESSORIES

Main unit	1pc
Charger	1pc
Battery	2pcs
Test film	1pc
Sample with cup	1pc
Protection support (including calibration silver)	1pc
USB cable	1pc

HTC-1

TEMPERATURE METER



VIDEO



SPECIFICATION

Temperature range	-20°C-60°C
Temperature accuracy	1%
Temperature resolution	0.1°C
Humidity range	10%RH-99%RH
Humidity accuracy	5%
Humidity resolution	1%
Power supply	AAA battery
Dimension	98×106×20 mm
Weight	50g

INCLUDED ACCESSORIES

Main unit	1pc
Battery	1pc

HTC-70

TEMPERATURE METER



- ◆ External probe
- ◆ Probe is IP67 protection level, can measure the water temperature in fish tank



SPECIFICATION

Temperature range	-5°C-70°C
Temperature accuracy	±1°C
Temperature resolution	0.1°C
Humidity range	10%RH-99%RH
Humidity accuracy	5%
Humidity resolution	1%
Power supply	AAA battery
Dimension	98×120×21 mm
Weight	60g

INCLUDED ACCESSORIES

Main unit	1pc
Battery	1pc

HTC-300

TEMPERATURE METER FOR FOOD



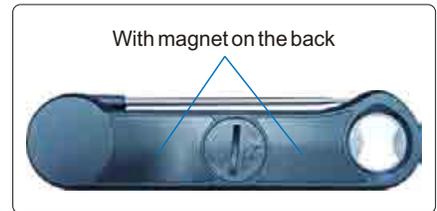
- ◆ Used to measure the temperature inside of food
- ◆ With magnet on the back
- ◆ Automatic power on/off
- ◆ With calibration function



304 stainless steel

with back light, auto-totating

Bottle opener



With magnet on the back

Temperature range	-50°C-300°C(-58°F-572°F)
Temperature accuracy	0.8°C(0-150°C)
Temperature resolution	0.1°C/0.1°F
Max. protrusion depth	110mm
Power supply	CR2032
Dimension	164×42×20 mm
Weight	100g

INCLUDED ACCESSORIES

Main unit	1pc
CR2032 Battery	1pc

IT700/IT1650S

INFRARED THERMOMETER



- ◆ For quick measuring remote temperature
- ◆ Easy to operate



IT700

SPECIFICATION

Code	IT700	IT1650S
Measuring temperature range	-50°C-950°C	-50°C-1650°C
Accuracy	1.5°C(<75°C)/2%(75-500°C)/3%(>500°C)	
Repeatability	0.5°C or 1%	
Distance spot ratio	12:1	50:1
Response time	500ms	
Resolution	0.1°C	
Power supply	9V battery	
Emissivity	0.1-1.00 (adjustable)	
Dimension	186×119×50 mm	225×160×66 mm
Weight	185g	320g

INCLUDED ACCESSORIES

Main unit	1pc
Battery	1pc

ITC450

INFRARED THERMAL IMAGING CAMERA



- ◆ Trigger button for taking pictures
- ◆ The IR image can be mixed with visible image
- ◆ Built-in 5000mA rechargeable battery
- ◆ With USB/WIFI data output interface
- ◆ With measuring software
- ◆ Menu in Chinese, English, Spanish, French, Japanese, Korean, Russian, Arabian



SPECIFICATION

IR image	Resolution	220x160
	Measuring range	-10°C - 450°C
	Accuracy	±2°C (<100°C), 2% (≥100°C)
	Detector	8-14um
	Frame rate	9Hz
	Field of view	Horizontal :56°, vertical:42°
	Lens	Ø4mm
	Measuring method	Max, Min, center spot and average
	Emissivity	0.1-1(adjustable)
	Color palettes	8 types
Visible camera	Resolution	640x480
	Frame rate	25Hz
	Illumination	LED
Screen size		3.5 inch
Image		outline fusion, overlay fusion, picture in picture, IR image, visible
Data output		USB/WIFI
Image storage		8G, can save 20,000 pictures
Image format		TIFF
Working temperature		-10°C-50°C
Protection level		IP54
Power supply		Rechargeable battery, for 5 hours working
Size		230×100×90mm
Weight		420g

INCLUDED ACCESSORIES

Main unit	1pc
USB cable and software	1pc

DMT600

DIGITAL MULTIMETER



- ◆ With protective case
- ◆ With backlight
- ◆ With low battery indicator
- ◆ Safety rating: CAT III 600V



test leads (included)



SPECIFICATION

Function	Range	Resolution(d)	Accuracy
DC Voltage	200mV/2V/20V/200V	0.1mV/1mV/10mV/100mV	±(0.5%+4d)
	600V	1V	±(1%+5d)
AC Voltage	200V/600V	100mV/1V	±(1.2%+10d)
DC Current	2mA/20mA/200mA	1µA/10µA/100µA	±(1.5%+3d)
	10A	100mA	±(2%+5d)
Resistance	200Ω	0.1Ω	±(1%+5d)
	2kΩ/20kΩ/200kΩ	1Ω/10Ω/100Ω	±(0.8%+3d)
	2MkΩ	1kΩ	±(1%+15d)
Diode test	open circuit voltage 2.8V DC		
Continuity check	<50Ω		
Power supply	9V battery		
Dimension	150×75×50 mm		
Weight	325g		

INCLUDED ACCESSORIES

Main unit	1pc
9V battery	1pc
Test lead	2pcs

DCM600

DIGITAL AC/DC CLAMP METER



- ◆ 35mm open size
- ◆ With data hold function
- ◆ With low battery indicator
- ◆ Safety rating: CAT III 600V



test leads (included)



SPECIFICATION

Function	Range	Resolution(d)	Accuracy
AC Current	2A	1mA	±(2.5%+20d)
	20A	10mA	±(2.5%+5d)
	200A	100mA	±(2.5%+8d)
	400A	1A	±(2.5%+8d)
	600A	1A	for reference
DC Voltage	600V	1V	±(1.5%+5d)
AC Voltage	600V	1V	±(1.5%+5d)
Resistance	2000KΩ	10KΩ	±(1.2%+3d)
Continuity check	<30Ω		
Power supply	2×AAA batteries		
Dimension	195×48×30 mm		
Weight	380g		

INCLUDED ACCESSORIES

Main unit	1pc
AAA battery	2pcs
Test lead	2pcs

WMM700

WOOD MOISTURE METER



- ◆ For quick measuring wood moisture
- ◆ Easy to operate



Extension probe (Optional)



SPECIFICATION

Moisture	Measuring range	2-40%/50%/60%/70%(for different wood)
	Accuracy	±1%+0.5
	Resolution	0.5%
Temperature	Measuring range	-10°C-60°C
	Accuracy	±1%
	Resolution	0.1 °C
Humidity	Measuring range	20%RH-95%RH
	Accuracy	±5% RH
	Resolution	0.1% RH
Power supply		2×AAA
Dimension		136×55×60mm
Weight		107g

INCLUDED ACCESSORIES

Main unit	1pc
Battery	2pcs

OPTIONAL ACCESSORIES

Extension probe	WMM700-EP
-----------------	-----------

WMM900

CONCRETE MOISTURE METER



- ◆ Use high frequency electromagnetic wave method to measure wall or concrete moisture
- ◆ Different density can be selected according to different building materials, increase the accuracy

Measure wall moisture



Measure concrete moisture



PORTABLE

SPECIFICATION

Measuring range	0-40%
Accuracy	±2%
Resolution	0.5%
Working temperature	0°C-40°C
Power supply	3×AAA
Dimension	132×67×26mm95g
Weight	95g

INCLUDED ACCESSORIES

Main unit	1pc
Battery	3pcs

LT900

LASER TACHOMETER



- ◆ With back light
- ◆ Real-time/ Max/Min/average measurement
- ◆ Can review the last measuring value



SPECIFICATION

Measuring range	2.5-99999rpm	
Resolution	< 1000rpm	0.1rpm
	≥ 1000rpm	1rpm
Accuracy	< 1000rpm	± (0.1%+5d)rpm, d is resolution
	≥ 1000rpm	± (1%+5d)rpm, d is resolution
Measuring distance	50-500mm	
Power supply	2x1.5V AAA batteries	
Dimension	56×30×127 mm	
Weight	106g	

CT900

CONTACT TYPE TACHOMETER



PORTABLE

- ◆ Measure rotary speed, line speed
- ◆ With back light
- ◆ Real-time/ Max/Min/average measurement
- ◆ Can review the last measuring value



SPECIFICATION

Range	rotary speed	0.5-19999rpm
	line speed	0.05-1999.9m/min
Resolution(d)	rotary speed	0.1rpm (< 1000rpm), 1rpm (≥ 1000rpm)
	line speed	0.01m/min (< 100m/min), 0.1m/min (≥ 100m/min)
Accuracy	rotary speed	± (0.5%+d)rpm (< 300rpm)
		± (0.05%+d)rpm (≥ 300rpm)
	line speed	± (0.1%+d)m/min
Sampling time	0.8s (above 60rpm)	
Power supply	2x1.5V AAA battery	
Dimension	55×33×158 mm	
Weight	106g	

OPTIONAL ACCESSORIES

Main unit	1pc
Accessories (5 types)	1pc.each
AAA battery	2pcs

DS40K

DIGITAL TACHOMETER/STROBPSCOPE



- ◆ Used to measure the rotation and vibration speed
- ◆ With back light
- ◆ With fine and coarse adjustment



SPECIFICATION

Measuring range	60 ~ 40000rpm	
Resolution	<400rpm	0.01rpm
	400-4000rpm	0.1rpm
Accuracy	≥4000rpm	1rpm
	≥1000rpm	±0.05%rpm
Memory	10	
Power supply	Lithium ion rechargeable batteries	
Dimension	195×73×38 mm	
Weight	220g	

VT63

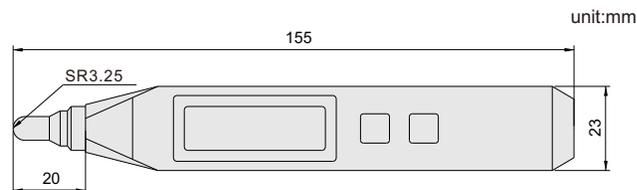
PEN TYPE VIBRATION TESTER



- ◆ Measure the motor, fan, compressor and measuring tools vibration
- ◆ Power off automatically
- ◆ Pocket size



VIDEO



SPECIFICATION

Range	Speed	0.1-199.9m/s (frequency range:10-1KHz)
	Accelerated speed	0.1-199.9m/s ² (frequency range: 10-15KHz)
	Displacement	0.001-1.999mm (frequency range:10-500Hz)
Accuracy	±5%+2 digit	
Power supply	rechargeable battery	
Operation temperature	0-40℃	
Operation humidity	0-90%	
Dimension	152x23x12mm	
Weight	75g	

INCLUDED ACCESSORIES

Main unit	1pc
Charger	1pc



TM100

LASER DISTANCE METER



- ◆ IP54 protection
- ◆ With a level in the body
- ◆ With distance, area, volume and height measurement function
- ◆ With Max, Min measuring function
- ◆ With back light
- ◆ Power off automatically



SPECIFICATION

Measuring range	0.1m-100m
Accuracy (at the perfect reflection surface)	1.5mm
Resolution	1mm
Unit	m/inch/ft
Light spot	Φ8mm@40m
Memory	20
Power supply	2x1.5VAAA batteries
Laser	635nm<1mW
Dimension	120×54×30 mm
Weight	110g

INCLUDED ACCESSORIES

Main unit	1pc
Battery	2pcs

TM40/100B

LASER DISTANCE METER



- ◆ Economic type
- ◆ With a level in the body
- ◆ With distance, area, volume and height measurement function
- ◆ With Max, Min measuring function
- ◆ With backlight
- ◆ Power off automatically



TM100B

SPECIFICATION

Code	TM40	TM100B
Measuring range	0.1m-40m	0.1m-100m
Accuracy (at the perfect reflection surface)	2mm	
Resolution	1mm	
Unit	m/inch/ft	
Light spot	Φ8mm@40m	
Memory	20	
Power supply	2x1.5VAAA batteries	
Laser	635nm<1mW	
Dimension	120×54×30 mm	
Weight	110g	

INCLUDED ACCESSORIES

Main unit	1pc
Battery	2pcs

TM1200

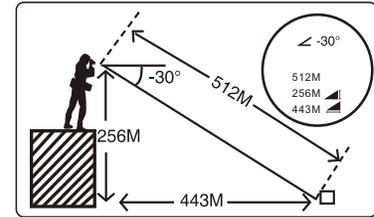
LASER DISTANCE METER



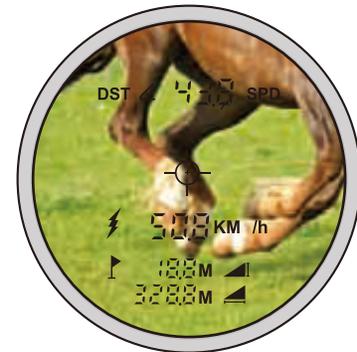
- ◆ IP54 protection
- ◆ Can measure distance, angle and speed
- ◆ Power off automatically



Distance, angle measurement



Speed measurement



SPECIFICATION

Measuring range	3m-1500m
Magnification	8X
View field	7°
Distance measuring accuracy	±1m
Speed measuring accuracy	±5km/h
Power supply	Rechargeable battery(for 30000 times)
Laser	635nm<1mW
Dimension	104×77×41 mm
Weight	197g

INCLUDED ACCESSORIES

Main unit	1pc
USB cable	1pc

LM100

LIGHT METER



- ◆ Unit: LUX/FC
- ◆ Max/Min/average measurement
- ◆ With data hold function
- ◆ Power off automatically

SPECIFICATION

Range	0.1-200000LUX/0.01-20000FC
Accuracy	±(6%+d) d is resolution
Resolution	0.1LUX (< 1000), 1LUX (≥ 1000)
Temperature range	0-60°C
Temperature accuracy	2°C
Sampling time	8 times/s
Repeatability	±2%
Light wavelength range	400-700nm
Power supply	-10-50°C
Dimension	152×55×33 mm
Weight	136g



INCLUDED ACCESSORIES

Main unit	1pc
AAA battery	3pcs

LL030

LASER LEVEL



- ◆ 2 lines (cross line)
- ◆ With auto-level mode



SPECIFICATION

Laser beam	green
Leveling range	4°±1°
Leveling accuracy	±3mm/10m
Horizontal/vertical accuracy	±3mm/10m
Laser class	Class II
Laser wavelength	510-530nm
Working distance(Line)	30m
Protection level	IP54
Power supply	2×AA
Operation temperature	-10°C- 50°C
Dimension	66x75x76mm
Weight	255g

STANDARD DELIVERY

Main unit	1pc
Stand	1pc
Battery	2pcs



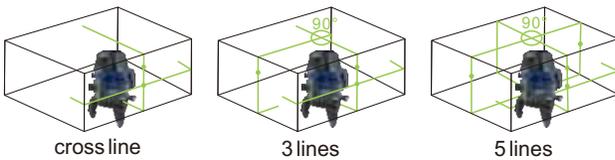
Stand

LL025/325/525

LASER LEVEL



- ◆ With auto-level mode



cross line

3 lines

5 lines

SPECIFICATION

Code	LL025	LL325	LL525
Laser beam	cross line	3 lines	5 lines
Laser beam color	green		
Leveling range	<3°		
Leveling accuracy	±1mm/7m		
Horizontal/vertical accuracy	±1mm/7m		
Laser class	Class II		
Laser wavelength	635-650nm		
Max.working distance(Line)	30m		
Line width	3mm@10m		
Power supply	rechargeable battery		
Operation temperature	-10°C- 50°C		
Dimension	115x115x200mm		
Weight	1kg		



LL025

STANDARD DELIVERY

Main unit	1pc
Battery	2pcs
AC/DC adapter	1pc

OPTIONAL ACCESSORIES

Stainless steel stand	LL025-ST
-----------------------	----------

Stand(optional)



SLM130

DIGITAL SOUND LEVEL METER



- ◆ Fast(2 time/sec)/slow(1 time/sec) display
- ◆ With back light
- ◆ Real-time and Max/Min measurement
- ◆ High limits setting with judgement and alarm



VIDEO



SPECIFICATION

Measuring sound range	30-130db
Accuracy	1.5db
Resolution	0.1db
Power supply	9V battery
Dimension	143×56×35 mm
Weight	64g

AM30

DIGITAL ANEMOMETER



- ◆ With temperature display
- ◆ With back light
- ◆ Real-time/ Max/Average measurement
- ◆ Unit: m/s, km/h, ft/min, Knots, mph



VIDEO



SPECIFICATION

Measuring range	0.3-30m/s
Accuracy	±5%
Resolution	0.1m/s
Power supply	9Vbattery
Dimension	155×56×35 mm
Weight	154g



PH12

PEN-TYPE PH METER



- ◆ Measure PH value and temperature
- ◆ Automatic temperature compensation
- ◆ Temperature unit conversion function
- ◆ Used for PH measurements like water or paper
- ◆ Waterproof button, more than 20,000 press times working life
- ◆ Calibration method can be selected for multi-point calibration or single-point calibration
- ◆ Electrode loss can be viewed for timely replacement of the electrode head
- ◆ ASTM and European standard are available
- ◆ Automatic power off



SPECIFICATION

PH range	-2.00~+16.00PH
PH accuracy	±0.01PH
Temperature measuring range	0-100.0°C/32-212°F
Type of electrode	Bubble electrodes
Display	LCD screen with backlight
Power supply	2×AAA batteries
Working temperature	0-60.0°C/32-140°F
Dimension	Ø39×180
Weight	108g

INCLUDED ACCESSORIES

Main unit	1pc
Battery	2pcs
PH buffer powder	3pcs

LSM25/LSM50

LASER SCAN MICROMETER

- ◆ It can be used to measure the diameter of wires, cables and steel bars, as well as the width or thickness of steel strips and copper strips
- ◆ Can be accurately measured whether the product shakes or not
- ◆ Non contact and precision measurement



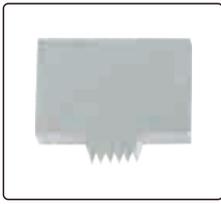
SPECIFICATION

Code	LSM25	LSM50
Range	0.1-20mm	0.4-50mm
Accuracy (d is diameter in mm)	±(0.2d+2)µm	±(0.3d+2)µm
Resolution	1µm	
Laser wavelength	650nm	
Sampling time	600 times/s	
Output	RS485/MODBUS	
Alarm output	DC24V/1A	
Working temperature	5-45°C	
Power supply	AC100-240V	
Dimension	298×72×167 mm	400×76×164 mm
Weight	8kg	10kg

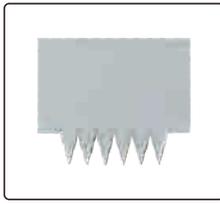
OPTIONAL ACCESSORIES

Main unit	1pc
Display	1pc
Power cable	1pc

- ◆ Used to test the adhesion of paint on metal, plastic and so on
- ◆ Conforms to ISO 2409, ASTM D3359, BS00E6
- ◆ Blade hardness: 58-62HRC



blade(1mm pitch)



blade(2mm pitch)



blade(3mm pitch)



3M tape



Magnifier



step 1: make grid cutting on surface



step 2: paste and remove the tape

0	5B	0	
1	4B	0-5%	
2	3B	5-15%	
3	2B	15-35%	
4	1B	35-65%	
5	0B	>65%	

step 3: according to the shedding status, judge the adhesion grade

SPECIFICATION

Blade pitch		1mm	2mm	3mm
Applied paint thickness	on hard substrate (like metal)	0-60μm	61-120μm	121-250μm
	on soft substrate (like wood, plaster)	—	0-120μm	121-250μm
Minimum substrate thickness	hard substrate (like metal)	0.25mm	0.25mm	0.25mm
	soft substrate (like wood, plaster)	—	10mm	10mm
Minimum size of test sample		150x100mm		
Dimension		130x25x30mm		
Weight		130g		

INCLUDED ACCESSORIES

Main unit	1pc
1mm pitch blade	1pc
2mm pitch blade	1pc
3mm pitch blade	1pc
Test tape	1pc
Magnifier	1pc
Small brush	1pc

PORTABLE

DRM50

DIGITAL PORTABLE REFRACTOMETER



- ◆ Used to measure the concentration of coolant, honey water and salt water
- ◆ Power off automatically

Pipette (included)



SPECIFICATION

Measuring range	0-50%
Graduation	0.1%
Accuracy	±0.2%
Battery	rechargeable battery
Dimension	143x42x22mm
Weight	115g

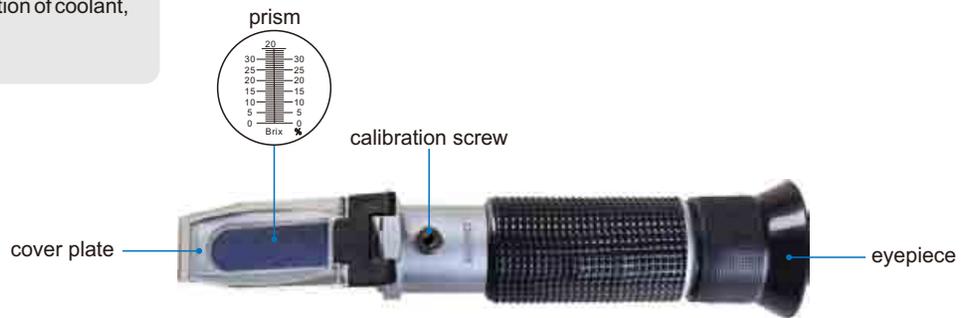
INCLUDED ACCESSORIES

Main unit	1pc
Pipette	1pc
Cable for recharging	1pc

SERIES RM

PORTABLE REFRACTOMETER

- ◆ Used to measure the concentration of coolant, honey water and salt water



RM32

SPECIFICATION

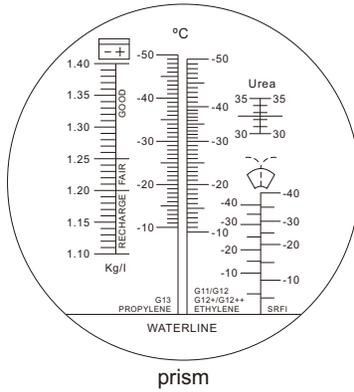
Code	RM10	RM20	RM32
Measuring range	0-10%	0-20%	0-32%
Graduation	0.2%		
Accuracy	±0.1%	±0.1%	±0.2%
Dimension	160x27x40mm		
Weight	175g		

INCLUDED ACCESSORIES

Main unit	1pc
Pipette	1pc
Screwdriver	1pc

RM50S

AUTOMOTIVE REFRACTOMETER



SPECIFICATION

Range (ethylene)	Glycol	0-50°C
	Propylene Glycol	0-50°C
	Battery fluid	1.10-1.40kg/L
	Cleaning liquid	0-40°C
	Adblue(Urea)	30-35%
Accuracy (ethylene)	Glycol	5°C
	Propylene Glycol	5°C
	Battery fluid	0.01kg/L
	Cleaning liquid	10°C
	Adblue(Urea)	0.2%

INCLUDED ACCESSORIES

Main unit	1pc
Pipette	1pc
Screwdriver	1pc

GM268

20°/60°/85°GLOSS METER

- ◆ To test the gloss of painting, printing ink, surfaces of future metal, granite, ceramic, plastic, paper, etc.
- ◆ Conforms to ISO 2813, ASTM D 2457, ASTM D 523
- ◆ Large display screen



THICKNESS

SPECIFICATION

Incidence angle	20°	60°	85°
Measuring range	0~2000GU	0~1000GU	0~160GU
Resolution	0.1GU (range<119.9GU)		
Accuracy	±1.5GU (range≤100GU)		
	±1.5% (range>100GU)		
Repeatability	±0.1GU (range<10GU)		
	±0.2GU (range: 10~100GU)		
	±0.2% (range>100GU)		
Measuring speed	1s		
Measuring area	10×10mm	15×9mm	36×5mm
Power supply	Rechargeable battery		
Dimension	160×75×90mm		
Weight	350g		

INCLUDED ACCESSORIES

Main unit	1pc
Calibration block	1pc
USB cable and software	1pc

GM60

60° GLOSS METER



- ◆ Basic type
- ◆ To test the gloss of painting, printing ink, surfaces of future metal, granite, ceramic, plastic, paper, etc.
- ◆ Conforms to ISO 2813,ASTMD 2457, ASTMD 523
- ◆ With manufacturer inspection certificate



SPECIFICATION

Incidence angle	60°
Measuring range	0~200GU
Measuring area	9x15mm
Resolution	1GU
Repeatability	±1GU (0-100GU), ±1%GU (100-200GU)
Measuring speed	0.5S
Power supply	AA battery
Dimension	160x52x84mm
Weight	300g

INCLUDED ACCESSORIES

Main unit	1pc
Calibration block	1pc
AA battery	1pc

HM1000

HAZE METER



- ◆ Conform to the standards: ASTMD1003/1044, GB/T 2410, JJF 1303-2011, CIE 15.2, JIS K7105, JIS K7361, JIS K 7136
- ◆ The instrument can easily achieveASTMD1003 non-compensation method
- ◆ With quality control software

SPECIFICATION

Measuring range	0~100%
Accuracy	<0.4
Repeatability	0.1
Resolution	0.1
Integrating sphere size	Φ154mm
Light source	400nm to 700nm, combined LED light
Sensor	The PD array detector, satisfies CIE V(λ)2 degree visual response
Measuring aperture	Φ20mm
Sample size	Thickness<170mm
Observer angle	2°
Illumination	D65, A, C
Measuring time	about 1.5s
Data output	USB
Illumination life span	5 years, more than 3 million times measurements
Display	7-inch TFT color LCD, capacitive touch screen
Size	290×211×511mm
Weight	7.6kg



INCLUDED ACCESSORIES

Main unit	1pc
Calibration cover	1pc
USB cable and software	1pc
AC/DC adapter	1pc

CM100

COLOR METER



- ◆ Pocket size, easy to carry
- ◆ Press one button to get the measure result in one second
- ◆ With software

SPECIFICATION

illuminating/viewing geometry	8/d
Measuring aperture	Ø8mm
Measuring wave length	400~700nm
Wave length step	10nm
View angle	2°/10°
Light source device	LED light
Memeory	10pcs standards
Measuring time	1s
Power supply	rechargeable lithium-ion battery
Lamp Life	5 years, more than 3 million measurements
Charging Time	12 thousand measurements(full electricity)
Output	USB/bluetooth
Dimension	Ø30×100 mm
Weight	88g



INCLUDED ACCESSORIES

Main unit	1pc
White calibration block	1pc
Charger	1pc
USB cable and software	1pc

CM200

COLOR METER



- ◆ Convenient and fast locating
- ◆ Portable structure design which is more conducive to keep the instrument stable



SPECIFICATION

illuminating/Viewing Geometry	8/d
Measuring Aperture	Φ8mm
Light Source	D65
Light Source Device	LED blue light excitation
Memeory	5000pcs standards
Repeatability	<0.08ΔE*ab
Power supply	rechargeable lithium-ion battery
Lamp Life	3 years, more than 1 million measurements
Charging Time	2 hours (first time 8 hours~100% electricity)
Dimension	205×70×100 mm
Weight	500g

INCLUDED ACCESSORIES

Main unit	1pc
White calibration block	1pc
Charger	1pc
USB cable and software	1pc

PORTABLE

ACCUD



CM3010

SPECTROPHOTO METER



- ◆ Concave grating spectrophotometric
- ◆ 3.5-inch TFT color LCD
- ◆ D/8 geometrical optics, conforms with CIE No. 15, ISO7724/1, ASTM E1164, DIN5033
- ◆ Use long life and low power consumption combined LED light source
- ◆ Switchable 8mm/4mm aperture, support both SCI and SCE at the same time
- ◆ Large storage capacity, over 20,000 measurement data
- ◆ USB port and Bluetooth 4.0
- ◆ With software



SPECIFICATION

Optical geometry	reflect: di:8°, de:8°(diffused illumination, 8-degree viewing angle)	
Integrating sphere size	Ø48mm	
Light source	combined LED light	
Spectrophotometric mode	concave grating	
Sensor	256 image element double array CMOS image sensor	
Wavelength range	400~700nm	
Wavelength interval	10nm	
Semiband width	10nm	
Measured reflectance range	0~200%	
Measuring aperture	dual aperture: MAV: Ø8mm; SAV: Ø4mm	
Specular component	SCI&SCE	
Color space	CIE LAB, XYZ, Yxy, LCh, CIE LUV, HunterLAB	
Color difference formula	ΔE^*_{ab} , ΔE^*_{uv} , ΔE^*_{94} , $\Delta E^*_{cmc}(2:1)$, $\Delta E^*_{cmc}(1:1)$, ΔE^*_{00v} , ΔE (Hunter)	
Other colorimetric index	WI(ASTM E313, CIE/ISO, AATCC, Hunter), YI(ASTM D1925, ASTM 313), Metamerism index MI, Staining fastness, Color fastness, Color strength, Opacity	
Observer angle	2°/10°	
Illuminant	A, C, D50, D55, D65, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, CWF, U30, T183, T184, U35	
Displayed data	spectrogram/values, samples chromaticity values, color difference values/graph, PASS/FAIL result, color offset	
Measuring time	2.6s	
Repeatability	Spectral reflectance	MAV/SCI, within 0.1% of standard deviation(400~700nm: 0.2%)
	Colorimetric values	MAV/SCI: $\Delta E^* \leq 0.04$
Inter-instrument error	MAV/SCI: $\Delta E^* \leq 0.2$	
Measurement mode	single measurement, average measurement	
Data port	USB, Bluetooth 4.0	
Data storage	standard 1000 pcs, sample 20000 pcs	
Illuminant life span	5 years, more than 3 million times measurements	
Battery	Li-ion battery, 5000 measurements within 8 hours	
Dimension	184×77×105mm	
Weight	600g	

INCLUDED ACCESSORIES

Main unit	1pc
White and black calibration cavity	1pc
USB cable and software	1pc
AC/DC adapter	1pc

OPTIONAL ACCESSORIES

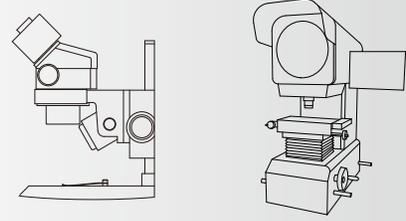
Printer	CM3010-PT
Powder test box	CM3010-PB

PORTABLE

INDEX

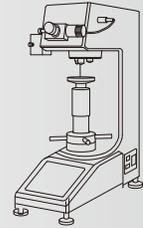
P352-384

ENDOSCOPE
DIGITAL MICROSCOPE
STEREO MICROSCOPE
VIDEO MICROSCOPE
CAMERA
PROFILE PROJECTOR
VISION MACHINE
TOOL PRESETTER



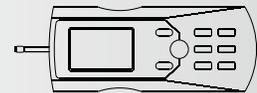
P385-409

HARDNESS TESTER



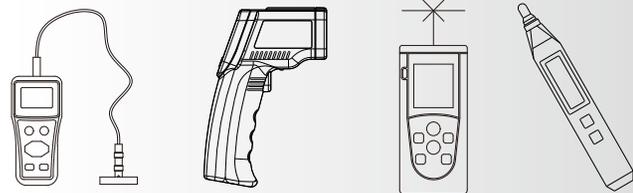
P409-417

ROUGHNESS SPECIMEN
ROUGHNESS TESTER
ROUNDNESS TESTER



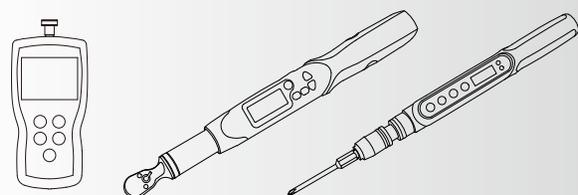
P418-442

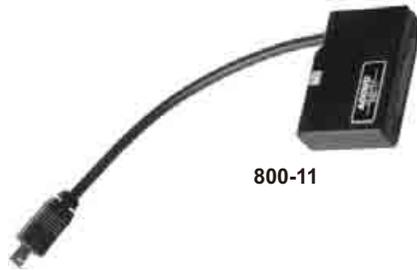
ULTRASONIC THICKNESS GAUGE
COATING THICKNESS GAUGE
TEMPERATURE METER
INFRARED THERMOMETER
DIGITAL MULTIMETER
LASER TACHOMETER
LASER DISTANCE METER
LASER LEVEL
GLOSS METER
COLOR METER



P443-463

FORCE GAUGE
TORQUE WRENCH
TORQUE SCREWDRIVER
TORQUE METER
WEIGHING SCALE
WEIGHT



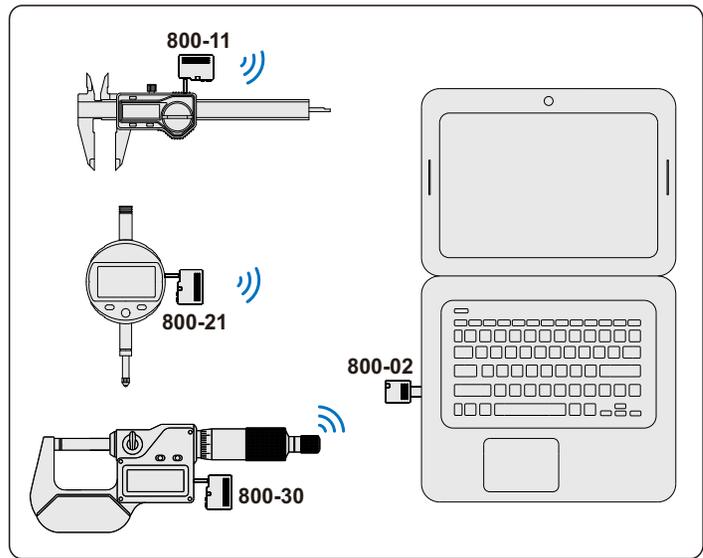


800-11



800-02

- ◆ Max. transmission distance: 15m
- ◆ For single channel receiver (code: 800-01), it can be only connected to one receiver(gages). There is no software, the data can be transferred into Excel, Word directly.
- ◆ For multi- channel receiver(code: 800-02), it can be connected to Max. 10 receivers(gages). It includes a software, the data can be transferred into the software.
- ◆ Wireless zigbee protocol, conforming to IEEE802, 2.4GHz band



CABLE

Code	Name	Plug to product	Products
800-01	single channel receiver		for follow measuring tools
800-02	multi- channel receiver		for follow measuring tools
800-10	transmitter		for digital calipers with following electronics
800-10L	transmitter		for digital height gage with following electronics
800-11	transmitter		for digital calipers with following electronics

Code	Name	Plug to product	Products
800-15	transmitter		for digital calipers and height gage with following electronics
800-21	transmitter		for digital indicators with following electronics
800-20	transmitter		for digital indicators with following electronics
800-30	transmitter		for digital micrometers with data output with following electronics

* Confirm the electronics output port type when placing orders



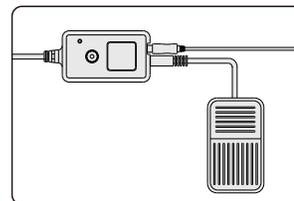
VIDEO



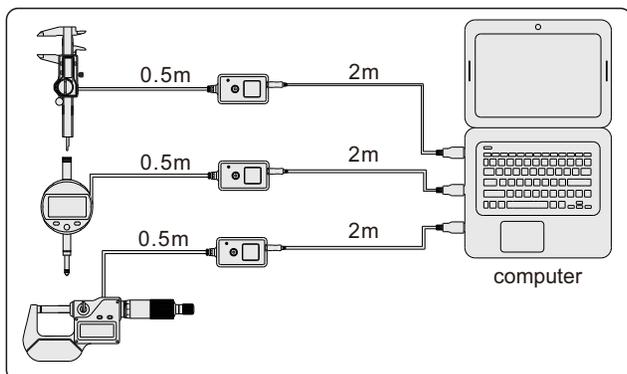
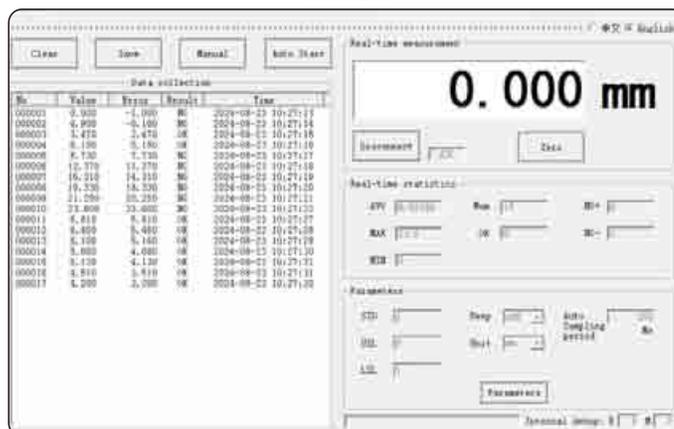
100-11

- ◆ The cable without software, push the black button or footswitch, the data can be transferred into Excel, Word directly.
- ◆ The cable with software, the data can be transferred into the software at a set interval time automatically.

Connect foot switch to transfer the data (code: **400-01**)



Software



Code	Software	Plug to product	Products
100-03	Without		for digital calipers with following electronics
100-04	With		
100-03L	Without		for digital height gage with following electronics
100-04L	With		
100-11	Without		for digital calipers with following electronics
100-12	With		
100-15	Without		for digital calipers and height gage with following electronics
100-17	Without		for digital calipers with following electronics

Code	Software	Plug to product	Products
200-03	Without		for digital indicators with following electronics
200-04	With		
200-01	Without		for digital indicators with following electronics
200-02	With		
200-05	Without		for digital indicators with following electronics
200-06	With		for digital indicators with following electronics (output radius)
300-03	Without		for digital micrometers with data output with following electronics
300-04	With		

Code	Name
400-01	foot switch

* Confirm the electronics output port type when placing orders

SERIES 200

USB OUTPUT INTERFACE

- ◆ Connecting series 208 (software is included)
- ◆ Connecting 206 (software is included)

For following series 208
(counter for linear gauge)



208-004-01

For following 206



206-010-01

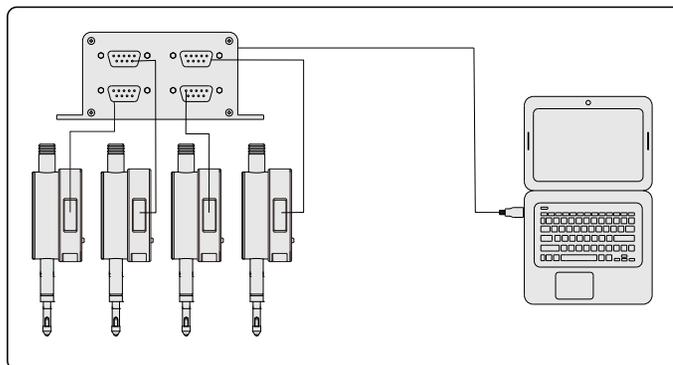


208-008-01



200-92

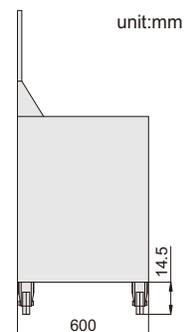
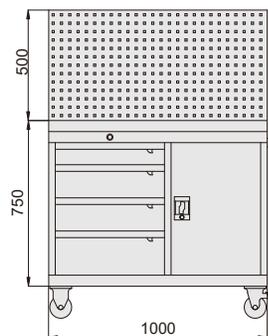
Work with series 208 (counter for linear gauge)



code	Plug to product	Products
200-91		for digital indicators with following electronics
200-92		for digital indicators with following electronics

809

MOVABLE WORKBENCH



Application



Code	Description	LxWxH(mm)
809-040-11	movable workbench	1000x600x1250