



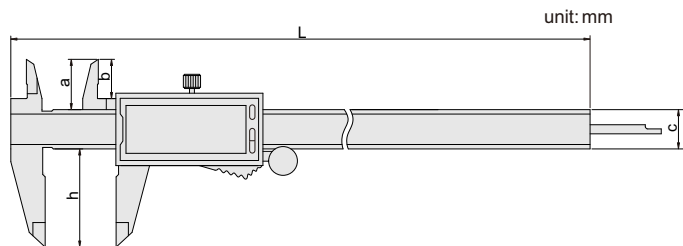
SERIES 106

DIGITAL CALIPER WITH LARGE SCREEN

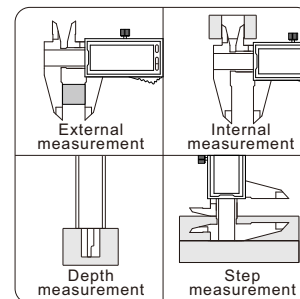


106-006-21

- ♦ Resolution: 0.01mm/0.0005"
- ♦ Buttons: on/off, zero, mm/inch
- ♦ Automatic power on/off
- ♦ Meet DIN862
- ♦ Made of stainless steel



Code	Range	Accuracy	a	b	c	h	L
106-006-21	0-150mm/0-6"	±0.03mm	21	16	16	40	236
106-008-21	0-200mm/0-8"	±0.03mm	24	19	16	50	286
106-012-21	0-300mm/0-12"	±0.03mm	25	20.5	16	60	400



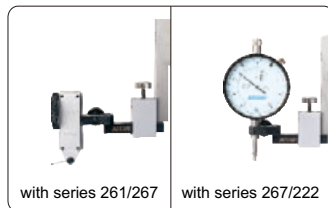
SERIES 182

DIGITAL HEIGHT GAGE

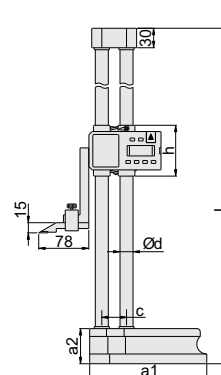


- ◆ Resolution: 0.01mm/0.001"
- ◆ Buttons: on/off, inch/mm, ABS/INC, data preset, set data
- ◆ Carbide tipped scriber
- ◆ Made of stainless steel beam
- ◆ With driving wheel
- ◆ Optional accessory: 267 series clamps

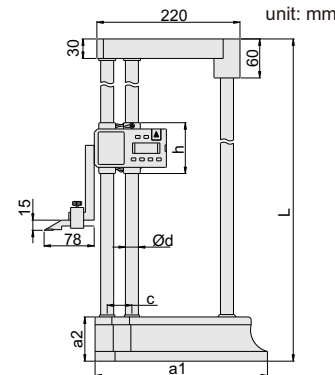
Application with clamps(**optional**)



182-012-11

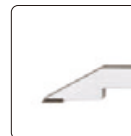


type A

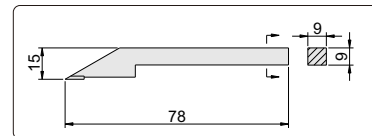


type B

Carbide tipped jaws



Scriber (**included**)



driving wheel



Code	Range	Type	Accuracy	a1	a2	c	Ød	h	L
182-012-11	0-300mm/0-12"	A	±0.04mm	135	43	33	15	84	475
182-018-11	0-450mm/0-18"	A	±0.05mm	180	54	38	20	88	660
182-024-11	0-600mm/0-24"	A	±0.05mm	180	54	38	20	88	810
182-040-11	0-1000mm/0-40"	B	±0.05mm	265	68	38	20	88	1230

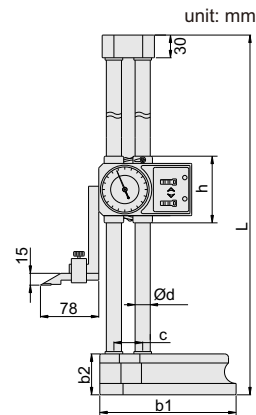
* **NEW**

Accud

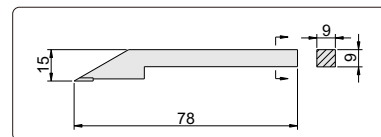
- ### Application with clamps(optional)



185-012-11

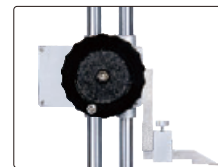


Scriber (included)



Carbide tipped jaws

driving wheel



Code	Range	Accuracy	b1	b2	c	Ød	h	L
185-012-11	0-300mm	±0.04mm	135	43	33	15	84	475
185-018-11	0-450mm	±0.05mm	180	54	38	20	88	660
185-024-11	0-600mm	±0.05mm	180	54	38	20	88	810

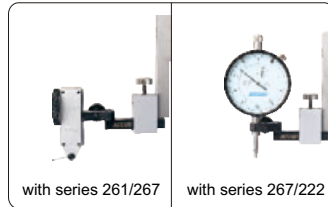
*** NEW**

SERIES 186

VERNIER HEIGHT GAGE

- ◆ Graduation: 0.02mm/0.001"
- ◆ Move main scale to set zero
- ◆ Carbide tipped scriber
- ◆ Made of stainless steel (except the base)
- ◆ Satin chrome plated scale
- ◆ With magnifier
- ◆ Optional accessory: 267 series clamps

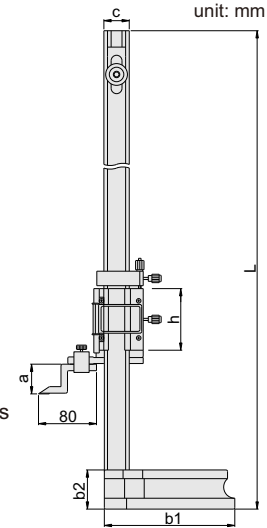
Application with clamps (optional)



186-012-11

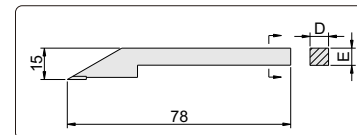


Carbide tipped jaws



Code	Range	Accuracy	a	b1	b2	c	h	D	E	L
186-012-11	0-300mm/0-12"	±0.04mm	30	135	43	28	75	9	9	545
186-018-11	0-450mm/0-18"	±0.05mm	41	180	54	35	85	9	9	720
186-024-11	0-600mm/0-24"	±0.05mm	41	180	54	35	85	9	9	870
186-040-11	0-1000mm/0-40"	±0.07mm	50	270	70	40	85	10	16	1310

Scriber (included)



* **NEW**

Accud

SERIES 270

CONTACT POINTS

Acetud

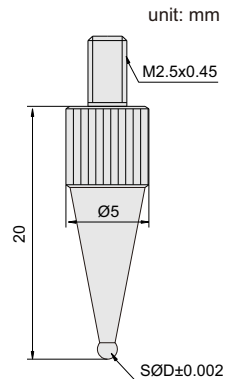


Ball Point

Code	Material	SØD(mm)
270-011-01	carbide	1
270-011-02	carbide	1.5
270-011-03	carbide	2
270-011-04	carbide	2.5
270-011-05	carbide	3
270-011-06	carbide	3.5
270-011-07	carbide	4
270-011-08	carbide	4.5
270-011-09	carbide	5
270-011-10	carbide	5.5
270-011-11	carbide	6
270-011-12	carbide	6.5
270-011-14	carbide	7
270-011-16	carbide	8
270-011-18	carbide	9
270-011-20	carbide	10
270-011-24	carbide	12



270-011-08

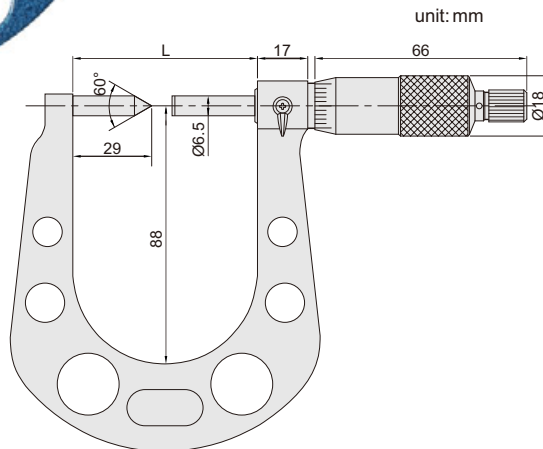


DISK BRAKE MICROMETER

- ◆ Measure thickness of disk brakes
- ◆ Graduation: 0.01mm
- ◆ Ratchet stop
- ◆ Carbide measuring faces
- ◆ Supplied with setting standards



Setting standards (included)



Code	Range	Accuracy	L	Setting standards (included)
306-001-01	7.6-33mm	5µm	64.5	25mm
306-002-01	25-50mm	5µm	82	25mm

SERIES 307

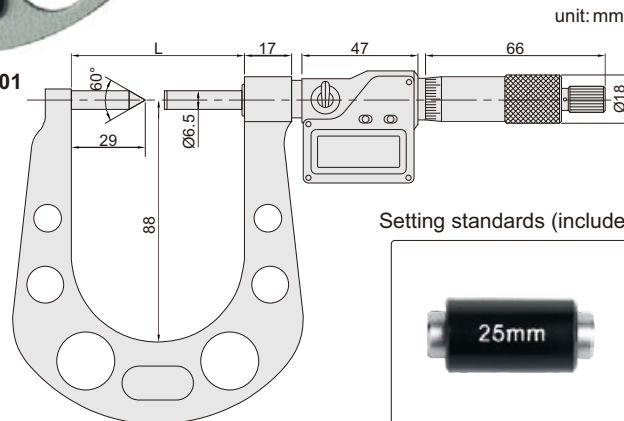
DIGITAL DISK BRAKE MICROMETER



- ◆ Measure thickness of disk brakes
- ◆ Resolution: 0.001mm/0.00005"
- ◆ IP65 protection level
- ◆ Button: on/off, mm/inch, set, zero
- ◆ Data output
- ◆ Automatic power off
- ◆ Ratchet stop
- ◆ Carbide measuring faces
- ◆ Supplied with setting standards



307-001-01



Setting standards (included)



Code	Range	Accuracy	L	Setting standards (included)
307-001-01	7.6-33mm	±5μm	64.5	25mm
307-002-01	25-50mm	±5μm	82	25mm

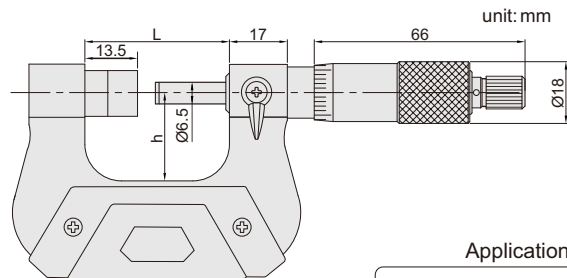
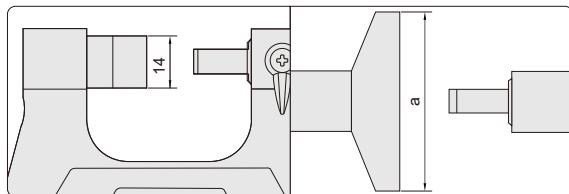
SERIES 308

LARGE ANVIL MICROMETER

- ◆ Graduation 0.01mm
- ◆ Ratchet stop
- ◆ Supplied with setting standards (except 0-25mm)

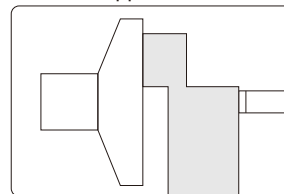


308-001-01



unit: mm

Application



Code	Range	Accuracy	a	h	L
308-001-01	0-25mm	4μm	50	26	42
308-002-01	25-50mm	4μm	60	38	67



SERIES 310

OUTSIDE MICROMETER FOR LEFT OR RIGHT HANDERS

- ◆ Graduation: 0.01mm
- ◆ Graduations on two sides
- ◆ Ratchet stop
- ◆ Carbide measuring faces
- ◆ Meet DIN863-1
- ◆ Supplied with setting standards (except 0-25mm)

Setting standards (included)



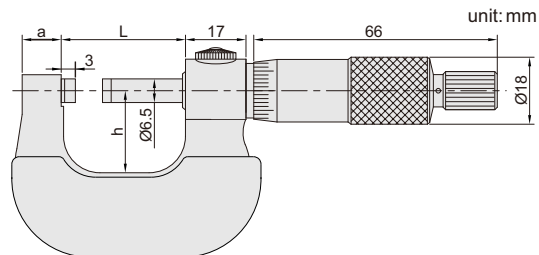
front side

310-001-01



reverse side

Code	Range	Accuracy	a	h	L	Setting standards (included)
310-001-01	0-25mm	4μm	6	24	32	-
310-002-01	25-50mm	4μm	8	32	57	25mm
310-003-01	50-75mm	5μm	8	45	82	50mm
310-004-01	75-100mm	5μm	8	57	107	75mm
310-005-01	100-125mm	6μm	8	70	133	100mm
310-006-01	125-150mm	6μm	8	82	158	125mm
310-007-01	150-175mm	7μm	8	95	183	150mm
310-008-01	175-200mm	7μm	8	107	209	175mm





SERIES 334

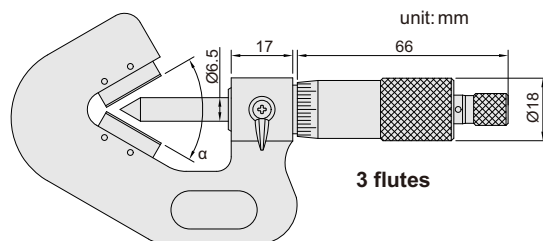
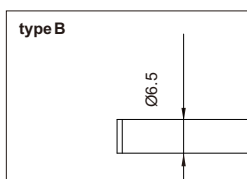
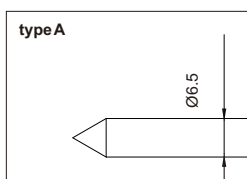
V-ANVIL MICROMETER



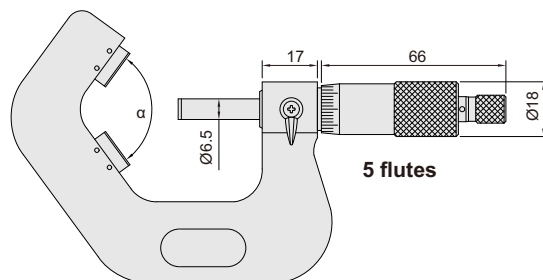
334-006-01

- ◆ Measure the diameter of parts or cutting tools with odd grooves such as taps, reamers and end mills
- ◆ Graduation 0.01mm
- ◆ Ratchet stop
- ◆ Carbide measuring faces
- ◆ Supplied with setting standards

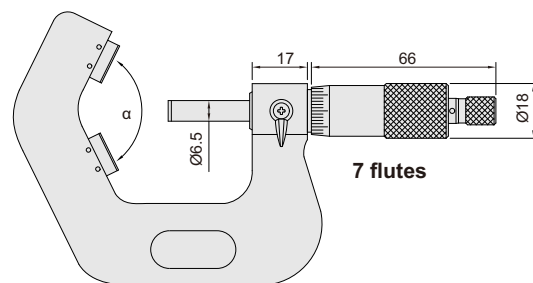
Setting standards
(included)



3 flutes



5 flutes



7 flutes

Code	Range	Accuracy	Flutes	α	Type	Setting standards(included)
334-006-01	1-15mm	4μm	3	60°	A	5mm
334-008-01	5-20mm	4μm	3	60°	B	5mm
334-012-01	20-35mm	5μm	3	60°	B	20mm
334-019-01	35-50mm	5μm	3	60°	B	35mm
334-024-01	50-65mm	6μm	3	60°	B	50mm
334-032-01	65-80mm	6μm	3	60°	B	65mm
334-036-01	80-95mm	7μm	3	60°	B	80mm
334-025-05	5-25mm	4μm	5	108°	B	5mm
334-045-05	25-45mm	5μm	5	108°	B	25mm
334-065-05	45-65mm	6μm	5	108°	B	50mm
334-085-05	65-85mm	7μm	5	108°	B	65mm
334-025-07	5-25mm	4μm	7	128°34'17"	B	5mm
334-045-07	25-45mm	5μm	7	128°34'17"	B	25mm
334-065-07	45-65mm	6μm	7	128°34'17"	B	50mm
334-085-07	65-85mm	7μm	7	128°34'17"	B	65mm

* NEW

* NEW

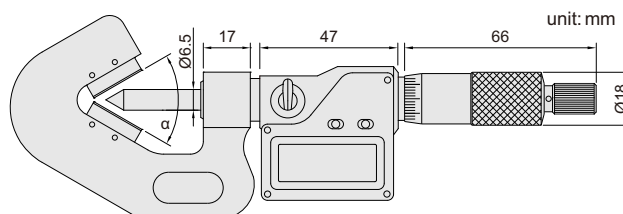
* NEW

* NEW

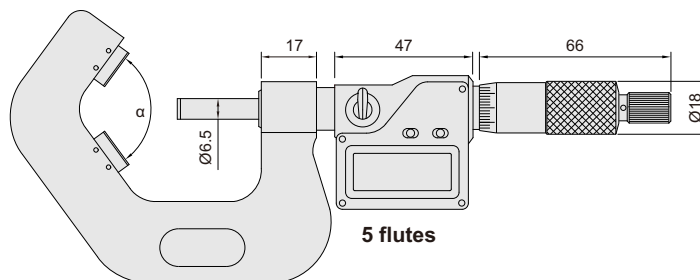


334-020-01

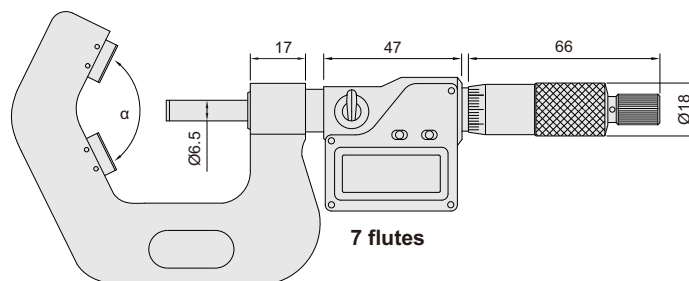
- ◆ Measure the diameter of parts or cutting tools with odd grooves such as taps, reamers and end mills
- ◆ Resolution: 0.001mm/0.00005"
- ◆ Button: on/off, set, mm/inch, ABS/INC, data output
- ◆ Automatic power off, Ratchet stop
- ◆ Data output
- ◆ Carbide measuring faces



3 flutes

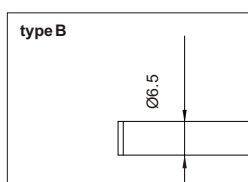
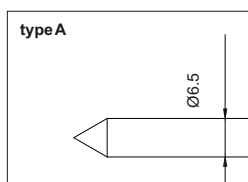


5 flutes



7 flutes

Setting standards
(included)



type A

type B

Code	Range	Accuracy	Flutes	α	Type	Setting standards (included)
334-015-01	1-15mm/0.04-0.6"	$\pm 4\mu\text{m}$	3	60°	A	5mm
334-020-01	5-20mm/0.2-0.8"	$\pm 4\mu\text{m}$	3	60°	B	5mm
334-035-01	20-35mm/0.8-1.4"	$\pm 5\mu\text{m}$	3	60°	B	20mm
334-050-01	35-50mm/1.4-2.0"	$\pm 5\mu\text{m}$	3	60°	B	35mm
334-025-55	5-25mm/0.2-1.0"	$\pm 4\mu\text{m}$	5	108°	B	5mm
334-045-55	25-45mm/1.0-1.8"	$\pm 5\mu\text{m}$	5	108°	B	25mm
334-065-55	45-65mm/1.8-2.6"	$\pm 6\mu\text{m}$	5	108°	B	50mm
334-085-55	65-85mm/2.6-3.4"	$\pm 6\mu\text{m}$	5	108°	B	65mm
334-105-55	85-105mm/3.3-4.2"	$\pm 6\mu\text{m}$	5	108°	B	85mm
334-025-77	5-25mm/0.2-1.0"	$\pm 4\mu\text{m}$	7	$128^\circ 34' 17''$	B	5mm
334-045-77	25-45mm/1.0-1.8"	$\pm 4\mu\text{m}$	7	$128^\circ 34' 17''$	B	25mm
334-065-77	45-65mm/1.8-2.6"	$\pm 5\mu\text{m}$	7	$128^\circ 34' 17''$	B	50mm
334-085-77	65-85mm/2.6-3.4"	$\pm 5\mu\text{m}$	7	$128^\circ 34' 17''$	B	65mm

* NEW

* NEW

* NEW

* NEW

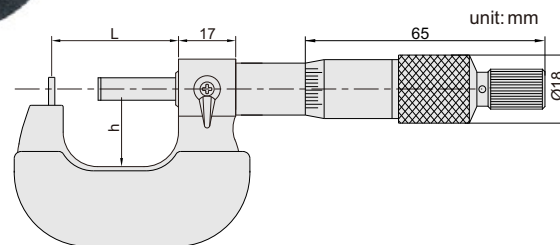
SERIES 341

TUBE MICROMETER

- ◆ Measure the wall thickness of tube, bearing and rings
- ◆ Graduation: 0.01mm
- ◆ Carbide measuring faces
- ◆ Ratchet stop
- ◆ Setting standards are included (except 0-25mm)



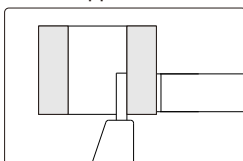
341-001-01



Setting standards(included)



Application



Code	Range	Anvil	Accuracy	h	L	Setting standards (included)
341-001-01	0-25mm	A	6μm	24	32	-
341-002-01	25-50mm	A	6μm	32	57	25mm
341-001-02	0-25mm	B	6μm	24	34	-
341-002-02	25-50mm	B	6μm	32	57	25mm
341-001-03	0-25mm	C	6μm	24	31	-
341-002-03	25-50mm	C	6μm	32	61	25mm
341-001-04	0-25mm	D	6μm	24	30	-
341-002-04	25-50mm	D	6μm	32	61	25mm
341-001-05	0-25mm	E	6μm	25	30	-
341-002-05	25-50mm	E	6μm	32	61	25mm
341-001-06	0-25mm	F	6μm	25	31	-
341-002-06	25-50mm	F	6μm	32	61	25mm

* NEW

* NEW

* NEW

* NEW

* NEW

* NEW

anvil A	anvil B
anvil C	anvil D
anvil E	anvil F

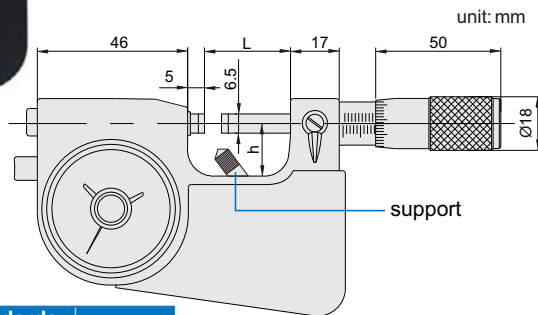
SERIES 349

INDICATING MICROMETER



349-001-01

- ◆ Micrometer head graduation: 0.002mm
- ◆ Dial indicator: graduation 0.001mm, accuracy 0.001mm
- ◆ Carbide measuring faces
- ◆ Supplied with setting standards (except 0-25mm)



Code	Micrometer head range	Accuracy	Indicator range	L	h	Setting standards (included)	Support
349-001-01	0-25mm	3μm	40μm	28.5	19	-	with
349-002-01	25-50mm	3μm	40μm	53.5	30	25mm	with
349-003-01	50-75mm	5μm	40μm	78.5	45	50mm	without
349-004-01	75-100mm	5μm	40μm	103.5	57	75mm	without
349-005-01	100-125mm	5μm	40μm	128.5	69	100mm	without
349-006-01	125-150mm	5μm	40μm	153.5	82	125mm	without
349-007-01	150-175mm	5μm	40μm	178.5	94	150mm	without

Setting standards(included)



* NEW

* NEW

* NEW



SERIES 349

DIAL SNAP GAUGE

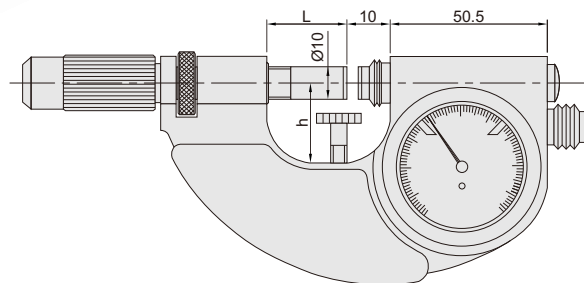


- ◆ Quick measurement for mass production
- ◆ Dial indicator: range $\pm 0.04\text{mm}$, graduation 0.001mm , accuracy 0.001mm
- ◆ IP54 dust/waterproof
- ◆ Measuring force: 5-10N
- ◆ Carbide measuring faces



349-001-21

unit: mm



Code	Range	h	L
349-001-21	0-25mm	25	28.5
349-002-22	25-50mm	35	53.5
349-003-23	50-75mm	47.5	78.5
349-004-24	75-100mm	60	103.5

SERIES 350

DIGITAL SHEET METAL MICROMETER

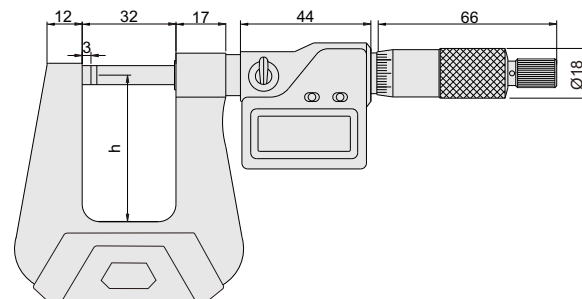


- ◆ Deep frame suitable for sheet metal, paper and plastic
- ◆ Resolution: 0.001mm/0.00005"
- ◆ IP65 protection level
- ◆ Button: on/off, mm/inch, set, zero, ABS/INC, date output
- ◆ Automatic power off
- ◆ Data output
- ◆ Carbide measuring faces, ratchet stop



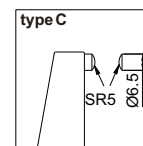
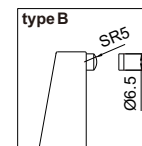
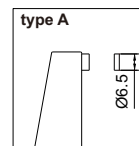
350-001-11

unit: mm



Code	Range	Accuracy	Type	h
350-001-11	0-25mm/0-1"	±3μm	A	50
350-001-12	0-25mm/0-1"	±5μm	A	100
350-001-13	0-25mm/0-1"	±7μm	A	150
350-001-21	0-25mm/0-1"	±3μm	B	50
350-001-22	0-25mm/0-1"	±5μm	B	100
350-001-23	0-25mm/0-1"	±7μm	B	150
350-001-24	0-25mm/0-1"	±10μm	B	310
350-001-31	0-25mm/0-1"	±3μm	C	50
350-001-32	0-25mm/0-1"	±5μm	C	100
350-001-33	0-25mm/0-1"	±7μm	C	150

* **NEW**



ACCUUD

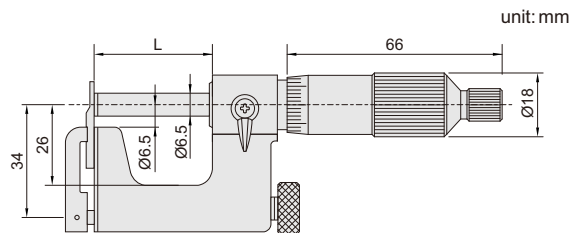
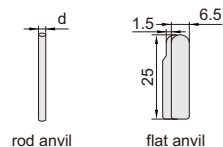




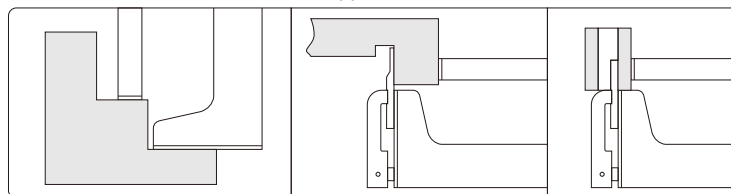
SERIES 377

INTERCHANGEABLE ANVIL MICROMETER

- ◆ Measure tube thickness, shoulder edge distance, rivet head height, etc.
- ◆ Supplied with flat anvil and rod anvil
- ◆ Graduation 0.01mm
- ◆ Ratchet stop
- ◆ Carbide spindle tip
- ◆ Setting standards are included (except 0-25mm)



Application



Code	Range	Accuracy	L	d
377-001-01	0-25mm	4μm	28.5	Ø3
377-002-01	25-50mm	4μm	53.5	Ø5

SERIES 399

DEPTH MICROMETER CHECKERS



unit: mm

- ◆ To check depth micrometers and set zero
- ◆ Constructed with steel gage blocks
- ◆ Supplied with anvil block

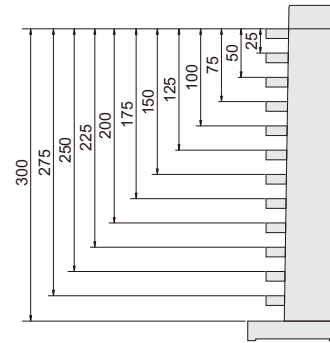
Application



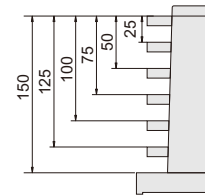
anvil block
(included)



399-012-01



399-012-01



399-006-01

Code	Size	Range	Accuracy
399-006-01	0-150mm	25, 50, 75, 100, 125, 150mm	$\pm 2\mu\text{m}$
399-012-01	0-300mm	25, 50, 75, 100, 125, 150, 175, 200, 225, 250, 275, 300mm	$\pm 3\mu\text{m}$

Accud



SERIES 442

HIGH PRECISION DIGITAL THICKNESS GAUGE



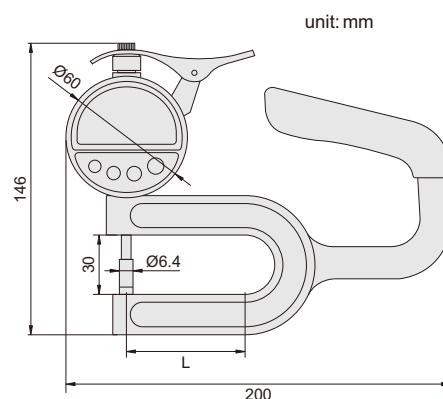
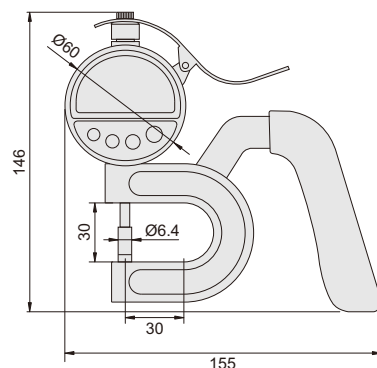
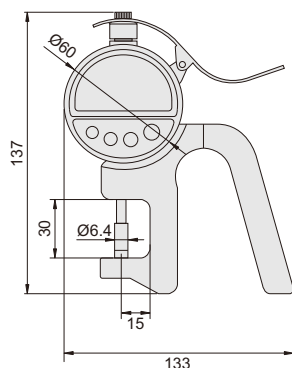
442-105-15



442-101-30



442-101-60



unit: mm

- ◆ Absolute encoder, the original data remains after power off
- ◆ Supplied with cable for communication
- ◆ Button: data output, on/off, zero, inch/mm conversion, measuring direction set, data preset absolute/incremental measurement, max./min./range measurement, tolerance set, hold
- ◆ Measuring force: 0.5-1N
- ◆ With analog reading
- ◆ Power: rechargeable battery, for 12 hours continuous working (full charge)

Included



Code	Range	Resolution	Accuracy	Repeatability	L
442-105-15	0-10mm/0-0.4"	0.0005mm/0.00002"	±0.0015mm	0.0005mm	-
442-101-15	0-10mm/0-0.4"	0.001mm/0.00005"	±0.002mm	0.001mm	-
442-101-30	0-10mm/0-0.4"	0.001mm/0.00005"	±0.002mm	0.001mm	-
442-101-60	0-10mm/0-0.4"	0.001mm/0.00005"	±0.003mm	0.001mm	60mm
442-101-00	0-10mm/0-0.4"	0.001mm/0.00005"	±0.004mm	0.001mm	100mm

- ◆ Use to check the accuracy of micrometer with series 518 gauge block set



Application



Code	Applicable micrometer
508-001-00	0-25mm

SERIES 512

CARBIDE GAUGE BLOCK SET



- ◆ Made of carbide
- ◆ Meet ISO 3650
- ◆ With calibration certificate
- ◆ Code explanation

512-□□□-□XT

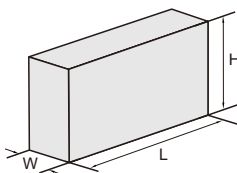
→0: grade0
→1: grade1

Example:

Code	Grade	Quantity
512-112-00T	0	112
512-112-01T	1	112

Size:

Size (L)	W	H
0.5mm≤L≤10mm	9mm	30mm
L>10mm	9mm	35mm



512-087-01T

Plastic box



Code	Blocks per set	Block allocation		
		Size(mm)	Step(mm)	Quantity
512-122-0XT	122	1.0005		1
		1.001-1.009	0.001	9
		1.01-1.49	0.01	49
		1.6-1.9	0.1	4
		0.5-24.5	0.5	49
		30-100	10	8
512-112-0XT	112	25-75	50	2
		1.0005		1
		1.001-1.009	0.001	9
		1.01-1.49	0.01	49
		0.5-24.5	0.5	49
512-103-0XT	103	25-100	25	4
		1.005		1
		1.01-1.49	0.01	49
		0.5-24.5	0.5	49
512-087-0XT	87	25-100	25	4
		1.001-1.009	0.001	9
		1.01-1.49	0.01	49
		0.5-9.5	0.5	19
512-083-0XT	83	10-100	10	10
		0.5		1
		1		1
		1.005		1
		1.01-1.49	0.01	49
		1.5-1.9	0.1	5
		2-9.5	0.5	16
		10-100	10	10
		1.005		1
512-076-0XT	76	1.01-1.49	0.01	49
		0.5-9.5	0.5	19
		10-40	10	4
		50-100	25	3
		1.005		1

Code	Blocks per set	Block allocation		
		Size(mm)	Step(mm)	Quantity
512-047-0XT	47	1.005		1
		1.01-1.09	0.01	9
		1.1-1.9	0.1	9
		1-24	1	24
		25-100	25	4
512-047-1XT	47	1.005		1
		1.01-1.19	0.01	19
		1.2-1.9	0.1	8
		1-9	1	9
512-046-0XT	46	10-100	10	10
		1.001-1.009	0.001	9
		1.01-1.09	0.01	9
		1.1-1.9	0.1	9
512-034-0XT	34	1-9	1	9
		1.0005		1
		1.001-1.009	0.001	9
		1.01-1.09	0.01	9
		1.1-1.9	0.1	9
		1-5	1	5
512-032-0XT	32	10		1
		1.005		1
		1.01-1.09	0.01	9
		1.1-1.9	0.1	9
		1-9	1	9
		10-30	10	3
		50		1

*NEW



Code	Remark	Accessory allocation
519-016-01H	16pcs	4pcs holder(0-50mm, 50-100mm, 100-200mm, 200-300mm); 1pc base; 1pair plain jaw; 1pc parallel jaw; 3pairs half round jaw(2.5mm, 5mm, 6mm); 1pc scriber; 1pc center point

SERIES 560

CALIPER/HEIGHT GAUGE CHECKERS



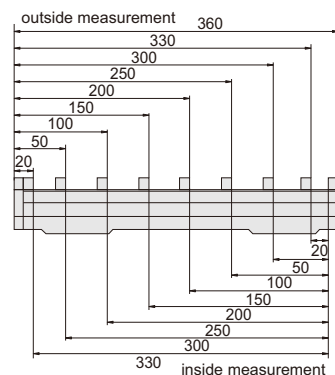
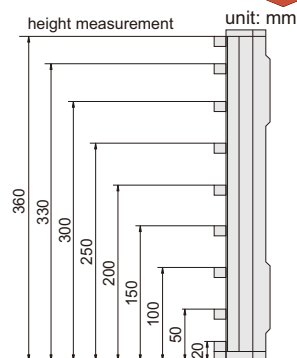
- ◆ To check calipers and height gages
- ◆ Constructed with steel gage blocks



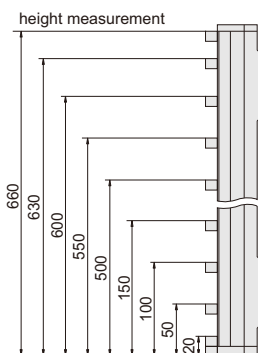
vertical use



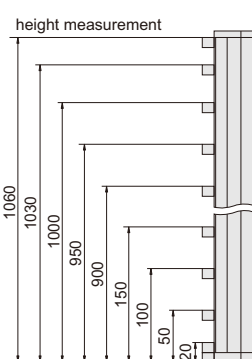
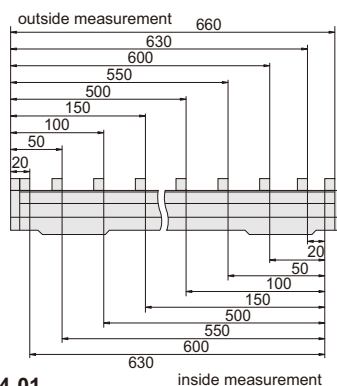
560-024-01



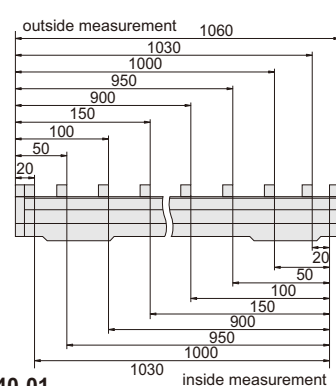
560-012-01



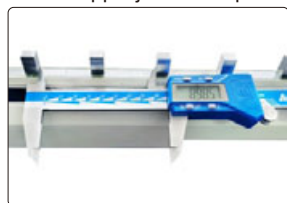
560-024-01



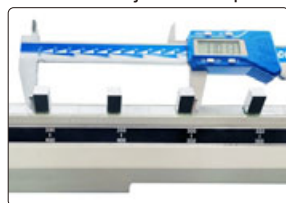
560-040-01



check upper jaws of calipers



check lower jaws of calipers



check height gage



Code	Size	Range of inside measurement	Range of outside measurement	Range of height measurement	Accuracy
560-012-01	0-300mm	20, 50, 100, 150, 200, 250, 300, 330mm	20, 50, 100, 150, 200, 250, 300, 330, 360mm	20, 50, 100, 150, 200, 250, 300, 330, 360mm	±3μm
560-024-01	0-600mm	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 630mm	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 630, 660mm	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 630, 660mm	±5μm
560-040-01	0-1000mm	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1030mm	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1030, 1060mm	20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1030, 1060mm	±7μm

SERIES 570**ANGLE GAUGE BLOCKS**

- ◆ Accuracy: $\pm 2''$
- ◆ To inspect protractor, taper gage, index plate, index head and goniometer. can also be used to set angle
- ◆ Made of special alloy steel, hardness HRC64, high stability, wear resistance and easy combination
- ◆ Can be combined to any angle with interval 6 seconds after combination (6", 12", 18", ..., 360)

**570-015-01**

Code	Angle	Total quantity
570-013-01	1°, 3°, 9°, 27°, 41°, 1', 3', 9', 27', 6", 18", 30", 90°/90°/90°/90°	13pcs
570-015-01	1°, 3°, 5°, 15°, 30°, 45°, 1', 3', 5', 20', 30', 6", 12", 30", 90°/90°/90°/90°	15pcs



SERIES 585

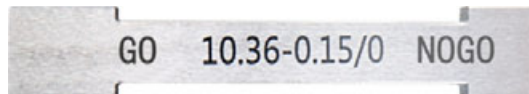
KEY SLOT LIMIT GAUGE

CUSTOM-MADE

Size between 3 to 50mm,
are available upon request



front side



reverse side

Code

585-xxxxx-xx

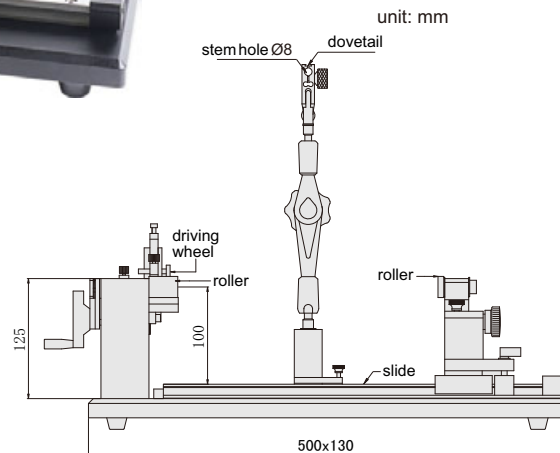
662

CONCENTRICITY GAUGE

Dial test indicator is not included

- ◆ Double guide
- ◆ Holding height can be adjusted

Code	Applicable diameter	Workpiece length
662-300-01	Ø3-40mm	300mm



AEEUD





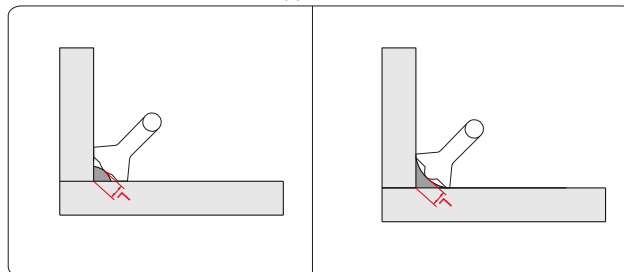
749

WELDING GAUGE

◆ Made of stainless steel



Application

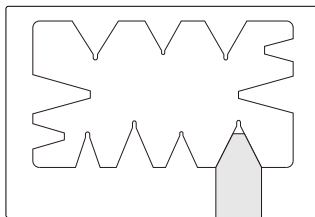
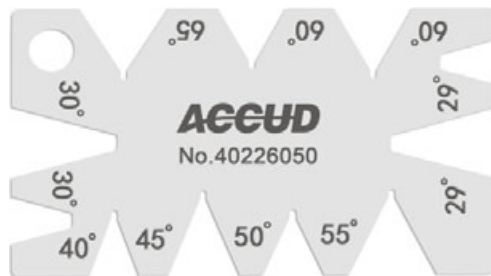


Code	Size
749-012-01	3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 8, 10, 12mm

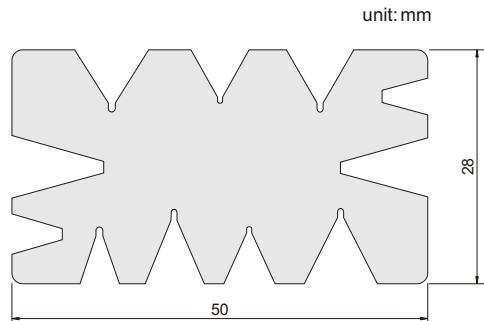
930

ANGLE GAUGE

◆ Made of stainless steel



check the angle of screw cutting tools



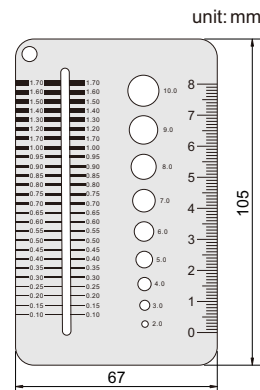
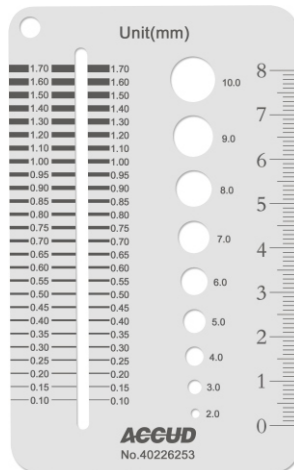
Code	Range	Accuracy
930-001-01	29°, 30°, 40°, 45°, 50°, 55°, 60°, 65°	±10'



940

DIAMETER MEASURING RULER/SCREW DIAMETER MEASURING

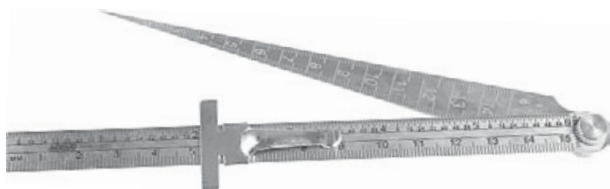
◆ Made of stainless steel



Code	Measuring hole diameter	Gap
940-010-01	2, 3, 4, 5, 6, 7, 8, 9, 10mm	0.1-1.7mm

962

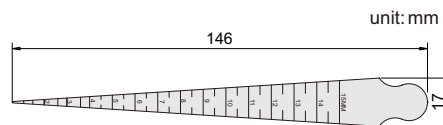
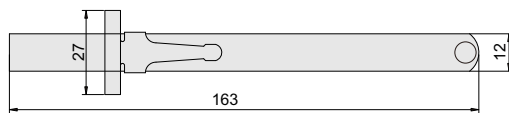
TAPER GAUGE SET



front side

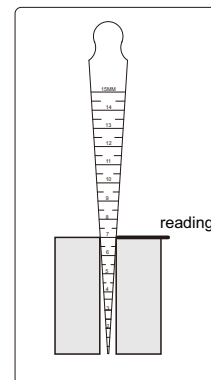


reverse side



♦ Made of stainless steel

Code	Tool	Range	Graduation	Accuracy
962-909-02	taper gage	0.8-15mm	0.1mm	±0.1mm
	steel ruler	150mm/6"	1mm/1/64"	±0.15mm



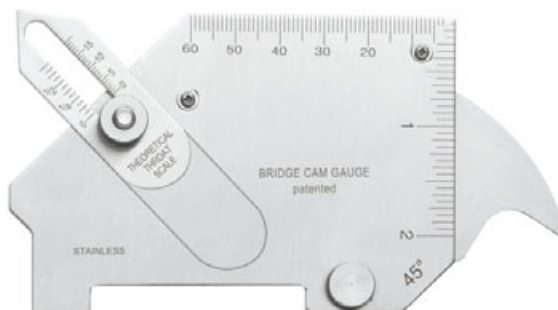
975

WELDING GAUGE

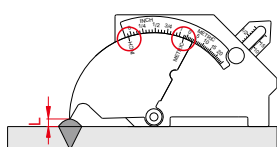
- ♦ Adjustable scale to compensate pointer wear
- ♦ Made of stainless steel



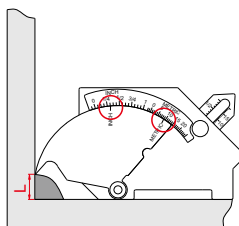
front side



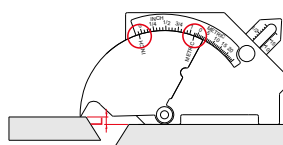
reverse side



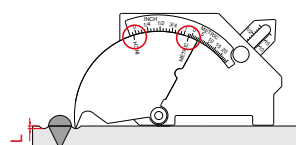
measure crown height



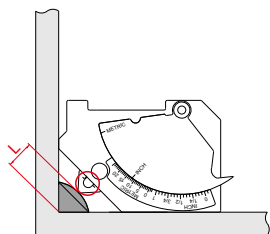
measure fillet weld leg height



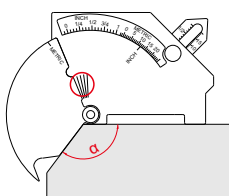
measure misalignment



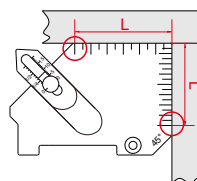
measure undercut depth



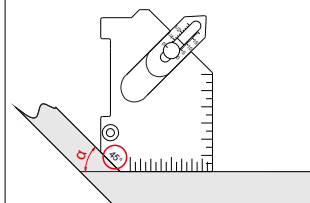
measure fillet weld throat size



measure angle of preparation

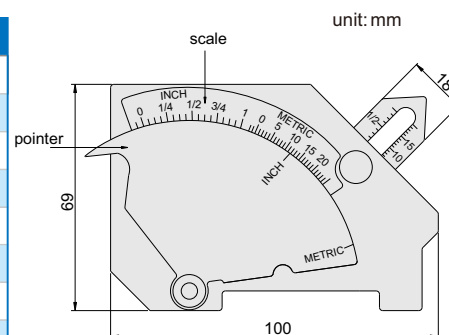


measure length

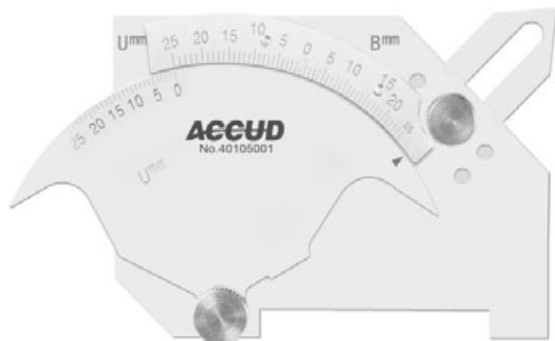


measure 45° angle

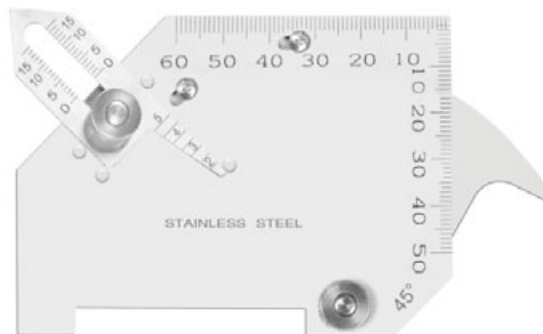
Code	Application	Range	Graduation	Accuracy
975-025-02	measure crown height	0 - 25mm (0 - 1")	1mm (1/16")	±0.5mm
	measure fillet weld leg height	0 - 25mm (0 - 1")	1mm (1/16")	±0.5mm
	measure misalignment	0 - 25mm (0 - 1")	1mm (1/16")	±0.5mm
	measure undercut depth	0 - 2mm (0 - 1/8")	1mm (1/16")	±0.5mm
	measure fillet weld throat size	0 - 20mm (0 - 3/4")	1mm (1/16")	±0.5mm
	measure angle of preparation	0 - 60°	5°	±1°
	measure length	0 - 60mm (0-2")	1mm (1/16")	±0.5mm
	measure 45° angle	—	—	±1°



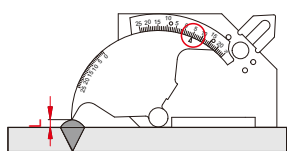
- ♦ Adjustable scale to compensate pointer wear
- ♦ Made of stainless steel



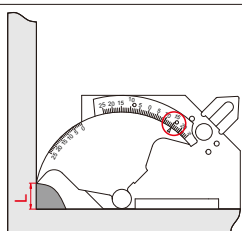
front side



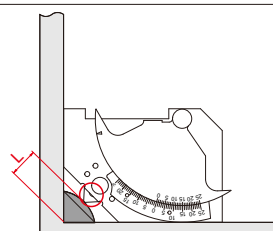
reverse side



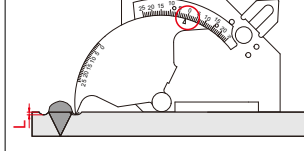
measure crown height



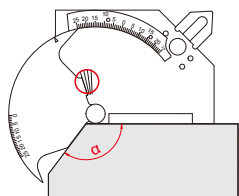
measure fillet weld leg height



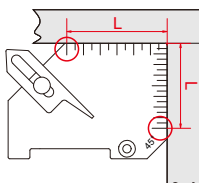
measure fillet weld throat size



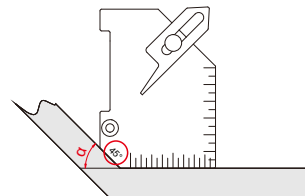
measure undercut depth



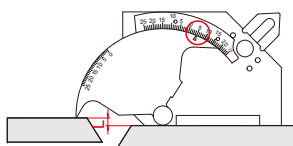
measure angle of preparation



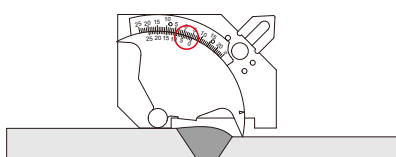
measure length



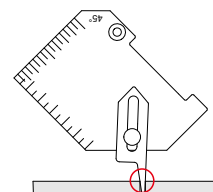
measure 45° angle



measure misalignment

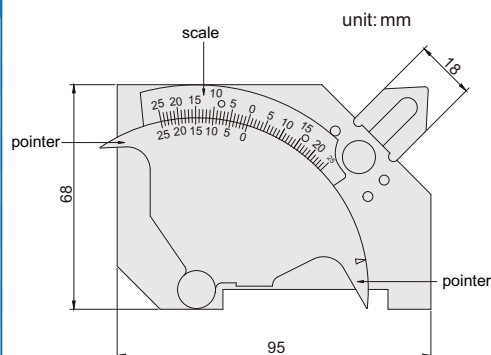


measure misalignment



measure gap

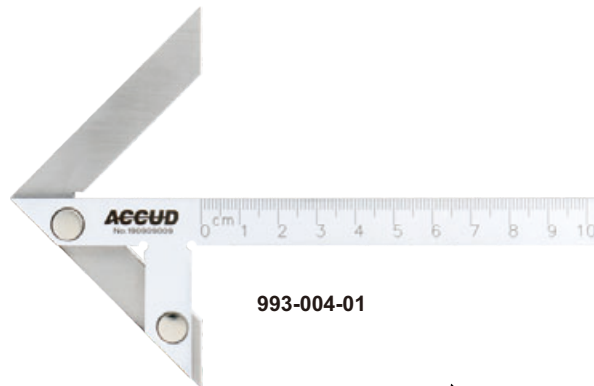
Code	Application	Range	Graduation	Accuracy
975-025-21	measure crown height	0 - 25mm	1mm	±0.5mm
	measure fillet weld leg height	0 - 25mm	1mm	±0.5mm
	measure fillet weld throat size	0 - 15mm	1mm	±0.5mm
	measure undercut depth	0 - 25mm	1mm	±0.5mm
	measure angle of preparation	0 - 60°	5°	±1°
	measure length	0 - 60mm	1mm	±0.5mm
	measure 45° angle	—	—	±1°
	measure misalignment	0 - 25mm	1mm	±0.5mm
	measure gap	2 - 5mm	1mm	±0.5mm



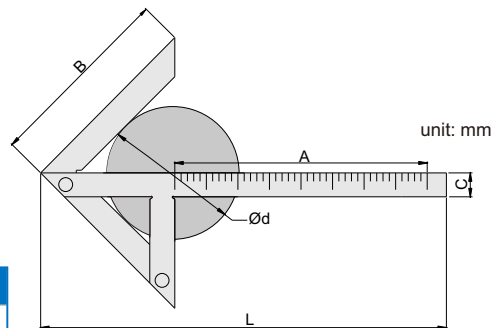
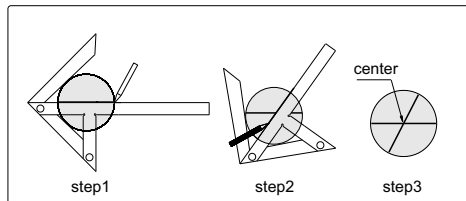
SERIES 993

CENTER MARKING GAUGE

- ♦ Find the center of round plates and shafts
- ♦ Made of stainless steel
- ♦ Stain chrome plated



993-004-01



Code	Size (AxB)	Diameter(Ød)	Accuracy	C	L
993-004-01	100x70mm	4 - 90mm	±0.15mm	12	153
993-006-01	150x130mm	4 - 190mm	±0.15mm	15	245
993-008-01	200x150mm	6 - 220mm	±0.15mm	15	310
993-012-01	300x180mm	6-270mm	±0.15mm	20	435



SERIES DHB937

DIGITAL BARCOL HARDNESS TESTER



- ◆ To measure the hardness of thick workpieces made of pure aluminum, aluminum alloy, fiber reinforced plastic, hard plastic, etc.
- ◆ Comforms to ASTM B648-2000
- ◆ The scale of DHB937-2 can converted to HW, HV HBW and HRE



DHB937-1

SPECIFICATION

Code	DHB937-1	DHB937-2
Scale conversion	No	Yes
Hardness range	0 ~ 100HBa (25 ~ 150HBW)	
Graduation	0.1HBa	
Accuracy	$\pm 2\text{HBa}$ (42 ~ 48HBa) $\pm 1\text{HBa}$ (84 ~ 88HBa)	
Min. workpiece thickness	0.8mm	
Power supply	3×AAA batteries	
Dimension	180×70×90mm	
Weight	800g	

INCLUDED ACCESSORIES

Main unit	1pc
Spare indenter	2pcs
Calibration block	1pc
Battery	3pcs
Hardness test block	2pcs
Wrench	1pc

DS40K

DIGITAL TACHOMETER/STROBSCOPE



- ◆ 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

- ◆ The cable length into the pipe can be shown the display
- ◆ With adjustable LED light
- ◆ Language: English, Japanese, Korean, Russian, German, French, Italian, Spanish, Portuguese, Thai, Finish, Swedish



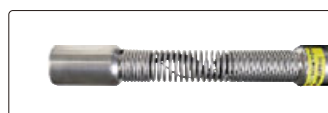
46mm support guide



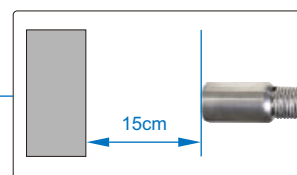
80mm support guide



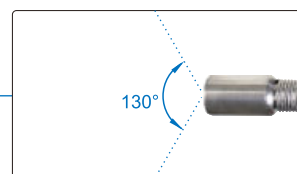
Remote control



23mm lens



focus distance:15cm



angle of view field:130°

SPECIFICATION

Probe diameter	23mm
Cable length	20m
Probe head material	304 stainless steel
Dust/waterproof probe	IP67
Camera pixel	2MPixel
Picture resolution	1920x1080
Focus distance	15cm
Angle of view field	130°
Illumination	4 steps adjustable LED
Display size	7inch LCD
Max.magnification	3X
Video format	HD 1080P
Memory	16G SD card
Power supply	rechargeable battery(for 7 hours working)
Weight	10kg

INCLUDED ACCESSORIES

Main unit	1pc
16G SD card	1pc
12VAC/DC adapter	1pc

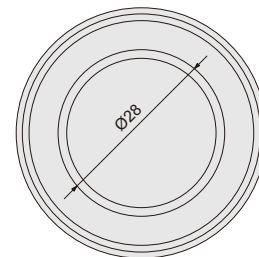
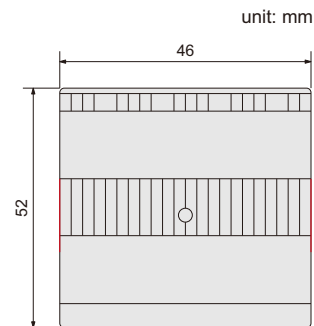
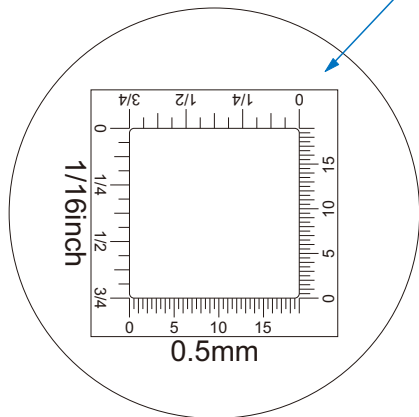
USB cable	1pc
Remote control	1pc
Support guide	2pcs

MG30X

MEASURING MAGNIFIER (WITH ILLUMINATION)



- ◆ Base with scale
- ◆ With 3 white LED and 3 UV LED
- ◆ Magnification: 30X



VISION

AG7

- ◆ With counter and measuring software


MTM300
SPECIFICATION

Code	MTM200	MTM300	MTM400
Measuring range(X/Y axis)	200×100mm	300×200mm	400×300mm
Z axis travel with scale	150mm, with fine adjustment		
Stage moving method	manual		
Linear scale resolution (X/Y/Z axis)	0.5μm		
Accuracy (X/Y axis)	(3+L/150)μm L is measuring length , unit:mm		
Repeatability	1μm		
Objective magnification	5X/10X/20X/50X		
Eyepiece magnification	10X		
Focus	5X:10.8mm/10X:12.2mm/20X:4mm/50X:7.8mm		
Camera	Color CCD, 1.3M pixel		
Illumination	contour illumination: LED, brightness adjustment		
	surface illumination: coaxial LED, brightness adjustment		
Max. glass stage loading	20kg	20kg	20kg
Dimension (L×W×H)	900×1000×1050mm	1000×1100×1050mm	1200×1300×1200mm
Weight	140kg	175kg	210kg

INCLUDED ACCESSORIES

Main unit	1pc
Calibration block	1pc
Software with USB dongle	1pc(Same as series VM)
Controller	1pc
Objective	4pcs
Eyepiece	1pair

OPTIONAL ACCESSORIES

Computer	VM-PC
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- ◆ Put the workpieces in view filed, and press one button, the measuring results will be shown immediately
- ◆ Can measure Max. 99 pieces workpieces at a time
- ◆ Workpiece can be put at any position
- ◆ Auto focus



SPECIFICATION

Lens	double field telecentric
Measuring range	100x80mm
Accuracy	$\pm(3+L/50)\mu\text{m}$
Repeatability	$\pm 2\mu\text{m}$
Resolution	0.01 μm
Focus method	auto
Focus (mm)	80
Moving range (Z axis)	45mm(motorized)
Measuring time	<1s (less than 100 measuring dimensions)
Illumination system	1000 steps programmable light contour light: telecentric parallel light surface light: LED
Camera pixel	20M
Image processing	256 gray scale, 20:1 sub-pixel processing technology
Dimension	260×450×660mm
Weight	28kg

INCLUDED ACCESSORIES

Main unit	1pc
Computer	1pc
USB dongle	1pc

OPTIONAL ACCESSORIES

Coaxial light	QVM-LG
Special angle surface light	QVM-SL

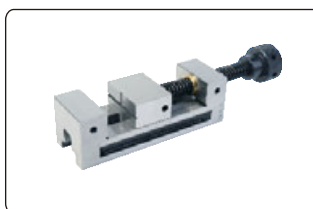
The light should be brought with main unit if needed



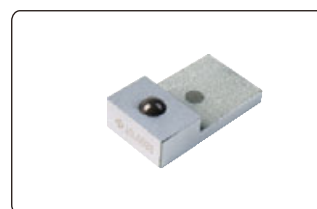
- ◆ Measure the surface profile and roughness with same probe at same time(for **RP100RS**)
- ◆ With high precision and good linearity digital probe(for **RP100RS** and **RP100TS**)
- ◆ Easy to install and replace without calibration
- ◆ Stylus can contact, lift and return automatically
- ◆ CAD file can be exported and imported(for **RP100RS** and **RP100JS**)



stage



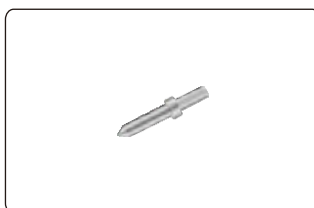
vice



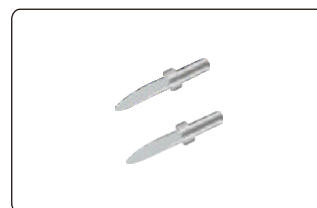
profile calibration block
(for **RP100RS** and **RP100JS**)



roughness calibration block
(for **RP100RS** and **RP100TS**)



Φ3*20mm point stylus



Φ3*21mm knife stylus

SERIES RP100XS

PROFILE AND ROUGHNESS MEASURING MACHINE

SPECIFICATION

*** NEW**

*** NEW**

Code		RP100RS	RP100TS	RP100JS
Measuring object		profile and roughness	roughness	profile
Roughness parameter		Ra, Rq, Rz(Ry), R3z, Rz(DIN), Rz(JIS), Rz(ISO), Rp, Rv, Rt, Rsk, Rsm, Rc, Rpm, Rku, Rdq, Roc, Mr1, Mr2, Rpk, Rvk, Rk, Rdc, A1, A2, R, Rx, AR, Rcp, Rmax		\
Wave parameter		wt, wa, wp, wv, wq, wc, wku, wsk, w, wx, wz, wsm, wdc, wte, wmr, Aw, c(wmr), wmr(c), wdq		\
Profile parameter		Pt, Pa, Pp, Pv, Pq, Pc, Pku, Psk, Pdq/p△q, Psm, Pdc, Pmr(c), Pz, pmr, C(pmr)		\
Profile	X axis range	100mm	\	100mm
	X axis straightness	0.8μm/100mm	\	0.8μm/100mm
	Z axis range	650mm	\	650mm
	Z1 axis range (probe)	40mm	\	40mm
	Accuracy	±(1+0.12H)um, H is measuring height in mm	\	±(1+0.12H)um, H is measuring height in mm
	Measuring arc accuracy	±(1.5+R/8)um, R is measuring radius in mm	\	±(1.5+R/8)um, R is measuring radius in mm
	Measuring angle accuracy	±2'	\	±2'
Roughness	Z1 axis range (probe)	40mm	20mm	\
	Accuracy	±5%		\
	Repeatability	±3%		\
	Resolution	0.0001um		\
	Number of cut-offs	3-7		\
	Cut off	0.025, 0.08, 0.25, 0.8, 2.5, 8mm		\
Climbing ability		77°(up), 88°(down)		
Measuring speed		0.02mm- 4.0mm/s		
Measuring mode		probe movement		
Movement control		joystick		
Power supply		220V		
Size		985x710x1450mm		

INCLUDED ACCESSORIES

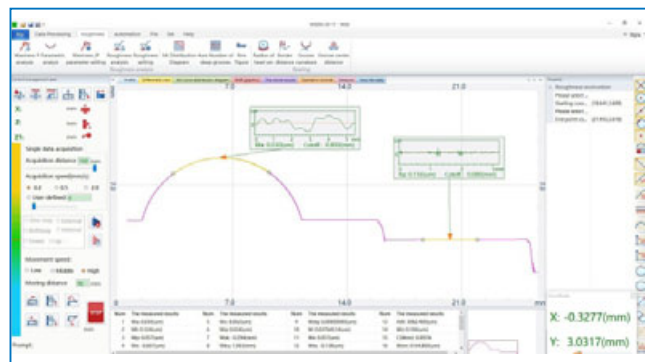
Main unit	1pc
Profile calibration block(for RP100RS and RP100JS)	1pc
Roughness calibration block(for RP100RS and RP100TS)	1pc
Stage	1pc
Vise	1pc
Φ3x21mm R0.025mm knife stylus	2pcs

Φ3x20mm R5μm point stylus	1pc
Φ8x150mm measuring rod	1pc
Computer	1pc
Printer	1pc
Anti-dust cover	1pc

Measuring profile



Measuring roughness





- ◆ The probe can be working with the main unit separately
- ◆ 22 roughness parameters
- ◆ With probe position indicator
- ◆ Roughness values, profile, and curve can be shown on the display
- ◆ Memory of maximum 100 results
- ◆ Automatic power off



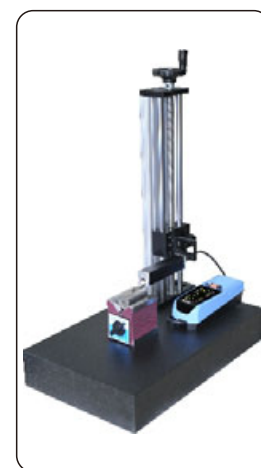
unit: mm

Stand probe	
Curved surface probe (for concave >Ø10mm, convexity >Ø15mm)	
Groove probe (groove height < 10mm)	
Small hole probe (hole dia. > 2mm)	
Extension rod	

Working with height gauge



Work together



SR200-STD Stand(optional)

SPECIFICATION

Parameters	Ra, Rz, Rq, Rp, Ry, Rv, Rs, R3z, R3y, Rc, Rt, Rmax, Rk, Rku, Rsm, Rpc, Rpk, Rvk, Rsk, Mr1, Mr2, Rz(JIS)	
Range	±160μm	
Accuracy	±10%	
Resolution(Ra)	0.001μm	
Probe	type	inductive
	stylus radius/angle	5μm/90°
	stylus material	diamond
Measuring force	4mN	
Measuring unit	μm/μin	
Cut off	0.25/0.8/2.5mm	
Number of cut-offs	1-5	
Traverse speed	0.5mm/s, 1mm/s	
Memory	100 measurement results	
Output	USB	
Power	built-in rechargeable battery	
Dimension(L×W×H)	158×64×52mm	
Weight	400g	

INCLUDED ACCESSORIES

Main unit	1pc
Standard probe	1pc
Calibration block	1pc
Calibration support	1pc
Adjustable stand	1pc
Cable(long and short)	2pcs
USB cable and software	1pc
AC/DC adapter	1pc

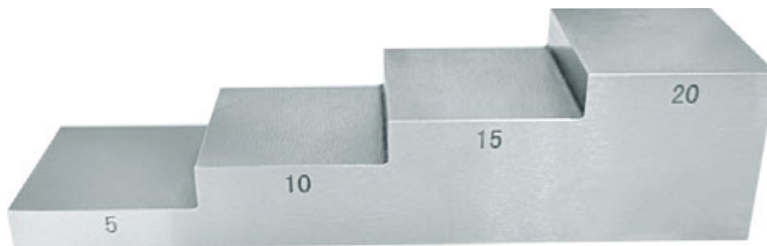
OPTIONAL ACCESSORIES

50mm extension rod	SR400-ER
Curved surface probe	SR400-02
Deep groove probe	SR400-03
Small hole probe	SR400-04
Test stand	SR200-STD
Printer	SR400-PR
Connector for height gage	SR400-SP1

SERIES STB

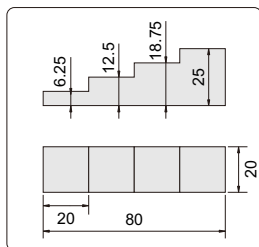
STANDARD TEST BLOCK FOR ULTRASONIC THICKNESS GAUGE

- ◆ Material of step wedge blocks can be customized
- ◆ Accuracy: $\pm 0.02\text{mm}$
- ◆ Stainless steel material: 45#

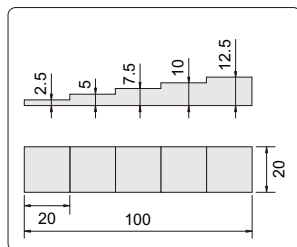


STB-4B

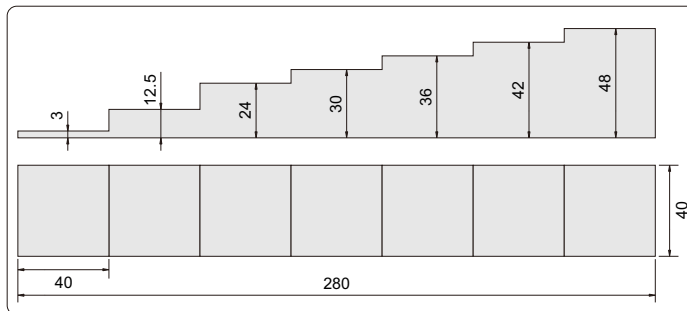
unit:mm



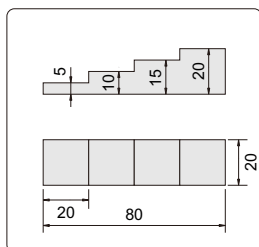
STB-4A



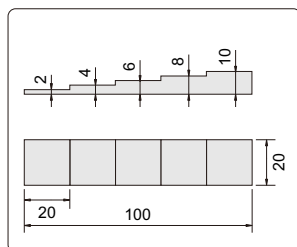
STB-5A



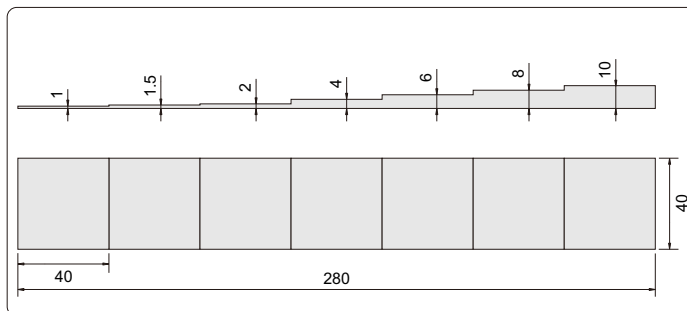
STB-7A



STB-4B



STB-5B



STB-7B