

CFN1500B

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 $\mu\text{m}/\text{mil}$ unit conversion
- ◆ Automatic power on/off
- ◆ With backlight



SPECIFICATION

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

INCLUDED ACCESSORIES

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

SERIES NK

FORCE GAUGE

- ◆ Push and pull test
- ◆ Peak(max.) or tracking work mode



NK-500



flat push tip



V type push tip



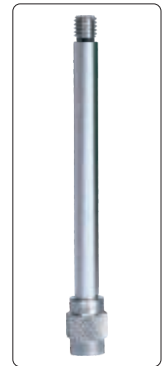
knife-edge push tip



point push tip



pull clamp



extension rod

SPECIFICATION

Code	NK-20	NK-30	NK-50	NK-100	NK-200	NK-300	NK-500
Range(N)	20	30	50	100	200	300	500
Range(Kg)	2	3	5	10	20	30	50
Resolution(N)	0.1	0.2	0.25	0.5	1	2	2.5
Accuracy	±2% full scale						

INCLUDED ACCESSORIES

Main unit	1pc
Push tip	4pcs (flat, V type, knife-edge, point)
Pull clamp	1pc
Extension rod	1pc

OPTIONAL ACCESSORIES

Stand	FS1000
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SERIES TQM

TORQUE SCREWDRIVER

- ◆ Clockwise operation
- ◆ When achieving the setting target, there is "chatter"



SPECIFICATION

Code	TQM60	TQM120	TQM300	TQM600
Range	0.12~0.6N.m	0.24~1.2N.m	0.6~3N.m	1.2~6N.m
Clockwise operation accuracy	±6%	±6%	±6%	±6%
Graduation	0.01N.m	0.02N.m	0.05N.m	0.1N.m
Size of shank	1/4"	1/4"	1/4"	1/4"
Length (L)	161mm	161mm	186mm	186mm
Weight	300g	300g	400g	400g

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 D2457, ASTM D523
- ◆ Large display screen



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		

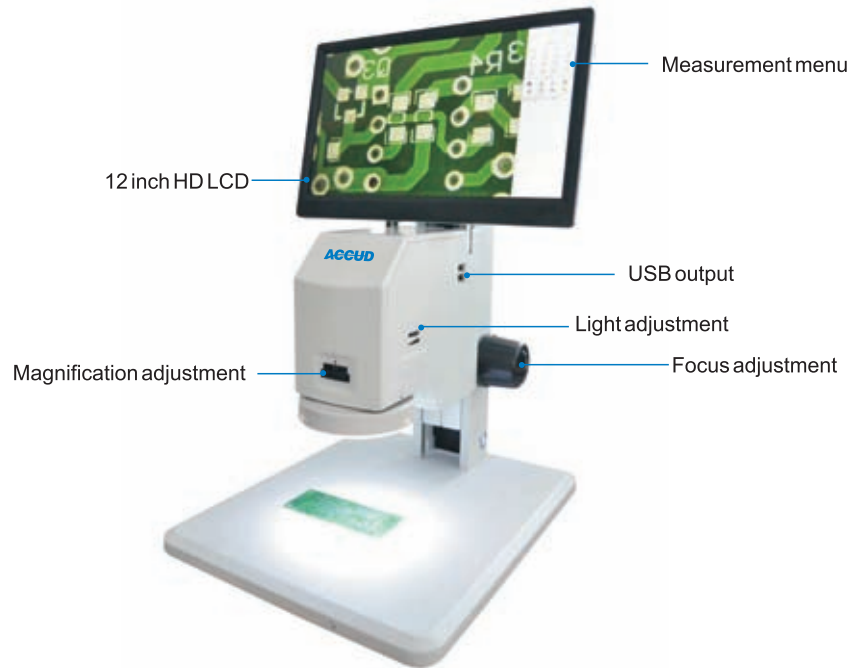
STANDARD DELIVERY

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

DVM2000

HDVIDEOMICROSCOPE

- ◆ 12 inch wide screen HD LCD is included
- ◆ Can take picture and record videos
- ◆ With USB interface, for outputting pictures or measuring data
- ◆ High frame rate, without any delay in quick movement



SPECIFICATION

Code	DVM2000	
Objective	1X ~ 4.5X (zoom)	
Total Magnification	9.3X-114.3X	
View Field	1.8mm-12mm(L)	
Working distance	96mm	
	Pixel	2M HDMI
Camera	Pixel size	2.75*2.75 μ m
	Frame rate	60fps
Illumination	144pcs LEDs adjustable light	
LCD display	12 inch HD LCD display, 1080P	
Base size	260mmx320mm(LxW)	
Weight	5.5kg	

INCLUDED ACCESSORIES

Main unit	1pc
12 inch HD LCD	1pc
Wireless mouse	1pc
HD connection cable	1pc
Ø95mm black/white plastic plate	1pc
Calibration rule	1pc
AC/DC adapter	1pc

OPTIONAL ACCESSORIES

0.5X Objective	DVM2000-05-O
2X Objective	DVM2000-20-O

VM1010

VISION MACHINE



SPECIFICATION

Code	VM1010
Measuring range	100×100mm
Stage moving method	Manual
Linear scale resolution	1μm
Accuracy	(3+L/200)μm L is the measuring length in mm
Repeatability	2μm
Focus	92mm
Lens magnification	0.7X-4.5X
Total magnification	30-220X
Illumination	contour illumination: LED light brightness, can be adjusted by software surface illumination: LED light brightness, can be adjusted by software
Dimension (L×W×H)	400×300×600mm
Weight	30kg

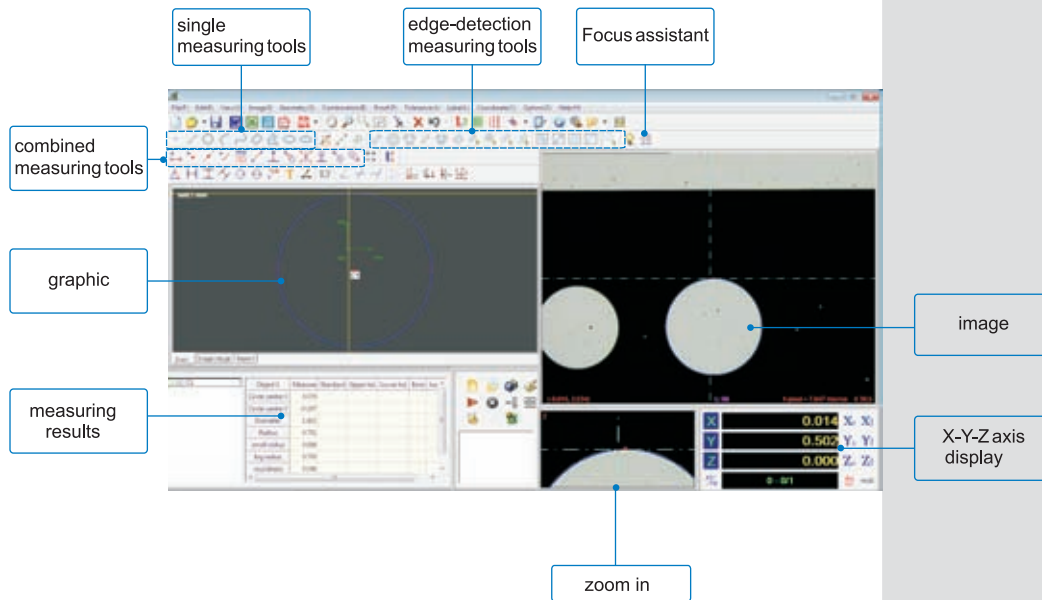
INCLUDED ACCESSORIES

Main unit	1pc
Calibration block	1pc
Software with USB dongle	1pc





OPTIONAL ACCESSORIES

Computer	VM-PC
Operating table	VM-Table
Calibration scale	Series 552







SOFTWARE FOR VISION MACHINE













■ Single measuring tools:

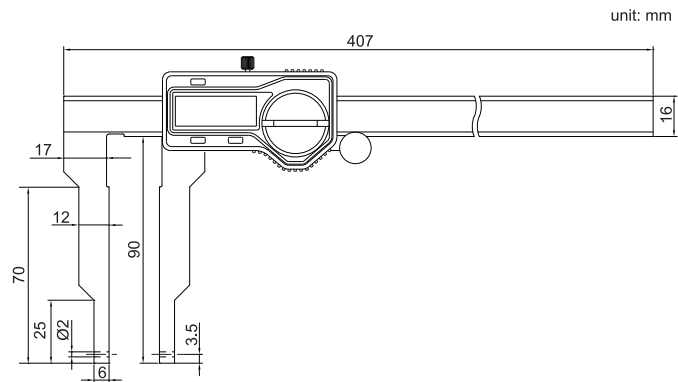
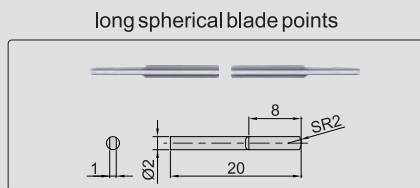
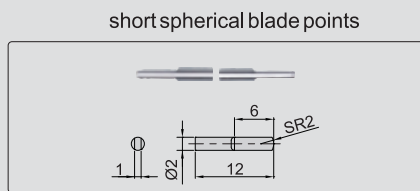
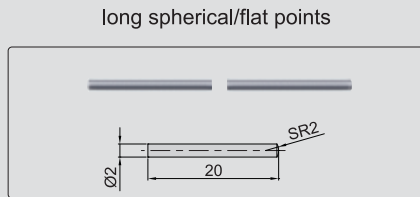
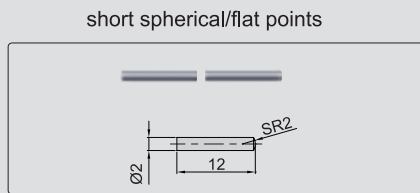
-  measure coordinate of point
-  measure length of line
-  measure center coordinate, radius, diameter and area of circle
-  measure length and diameter of arc

■ Combined measuring tools:

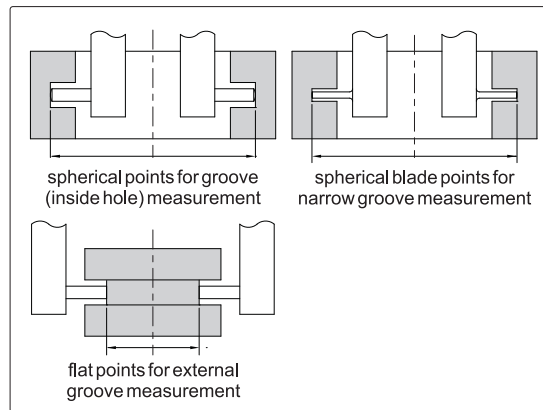
-  measure distance between two objects like, two points, two lines, a point to a line, a point to a circle and so on.
-  create a intersection point
-  find midpoint of a line
-  create a line
-  create a line, a circle and a arc based on points
-  measure distance between two points

-  measure length of curve
-  measure width, length and area of rectangle
-  measure length and area of polygon
-  measure center coordinate, axis length and area of ellipse
-  measure distance from point to line
-  create tangent lines between point and circle
-  create angular bisector between two lines
-  measure distance from circle to line
-  measure distance between two circles
-  find tangent lines between two circles

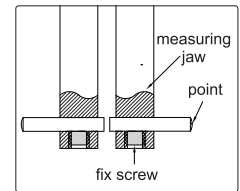
- ◆ Supplied with 4 pairs of points and zero setting block for external measurement
- ◆ Resolution: 0.01mm/0.0005"
- ◆ Buttons: on/off, zero, mm/inch
- ◆ Automatic power on/off
- ◆ Data output (code: 100-11 or 100-12)
- ◆ Made of stainless steel



measure internal and external grooves



install points



zero setting block for external measurement (included)

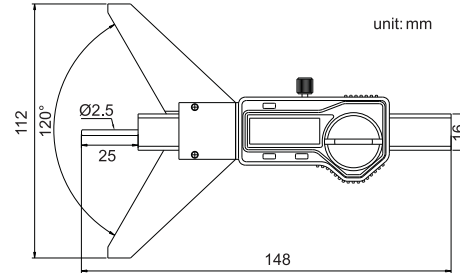


Code	Point	Range	Accuracy	Application
149-012-11	short spherical/flat points	24-324mm/1-12.7"(internal) 0-288mm/0-11.3"(external)	±0.04mm	spherical points for grooves inside hole (small hole) flat points for external grooves
	long spherical/flat points	40-340mm/1.5-13.3"(internal) 0-272mm/0-10.7"(external)	±0.04mm	spherical points for grooves inside hole (large hole) flat points for external grooves
	short spherical blade points	24-324mm/1-12.7"(internal) 0-288mm/0-11.3"(external)	±0.04mm	for narrow grooves (small hole)
	long spherical blade points	40-340mm/1.5-13.3"(internal) 0-272mm/0-10.7"(external)	±0.04mm	for narrow grooves (large hole)

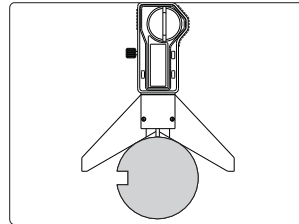
195

DIGITAL KEYWAY GAUGE

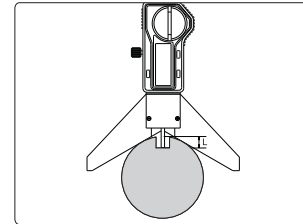
- ◆ Measure the depth of keyway
- ◆ Resolution: 0.01mm/0.0005"
- ◆ Buttons: on/off, zero, mm/inch
- ◆ Automatic power on/off
- ◆ Data output (code: 100-11 or 100-12)
- ◆ Made of stainless steel



step1: set zero



step2: measure depth of keyway

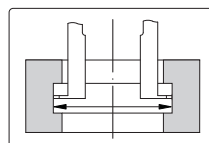
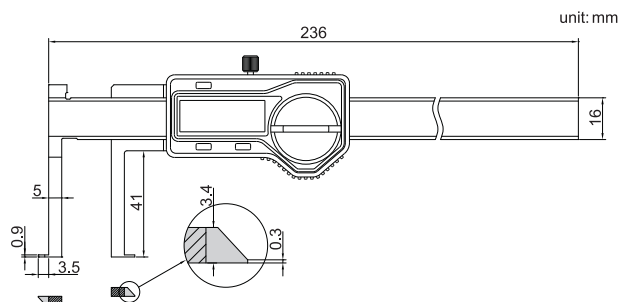


Code	Range	Accuracy
195-002-11	0-50mm/0-2"	±0.03mm

132

DIGITAL INSIDE GROOVE CALIPER

- ◆ Measure diameter of grooves inside small bores
- ◆ Resolution: 0.01mm/0.0005"
- ◆ Buttons: on/off, zero, mm/inch
- ◆ Automatic power on/off
- ◆ Data output (code: 100-11 or 100-12)
- ◆ Made of stainless steel

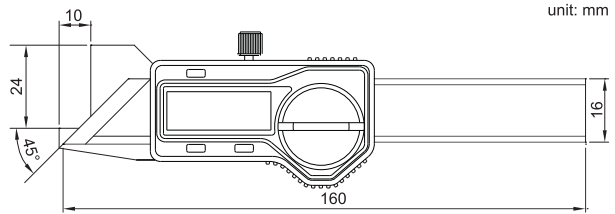


Code	Range	Accuracy
132-006-21	11-150mm/0.43-6"	±0.04mm

163

DIGITAL CHAMFER GAGE

- ◆ Measure 45° chamfer dimension
- ◆ Resolution: 0.01mm/0.0005"
- ◆ Buttons: on/off, zero, mm/inch
- ◆ Automatic power on/off
- ◆ Data output (code: 100-11 or 100-12)
- ◆ Made of stainless steel



Code	Range	Accuracy
163-006-11	0-6mm/0-0.24"	±0.06mm

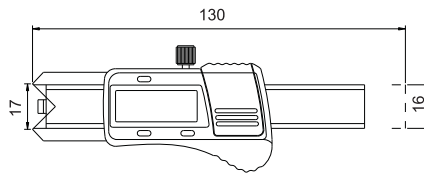
SERIES 164

DIGITAL CHAMFER GAGE

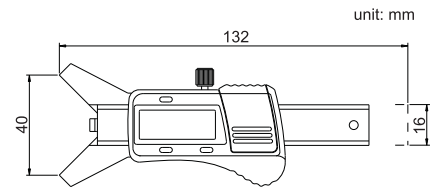
- ◆ Resolution: 0.01mm
- ◆ Made of stainless steel



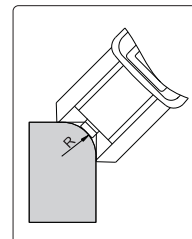
164-001-11



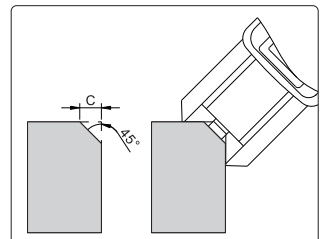
164-002-11



Measure chamfer radius



Measure leg length of 45° chamfer

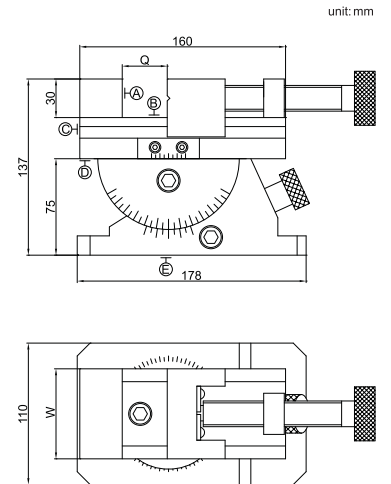
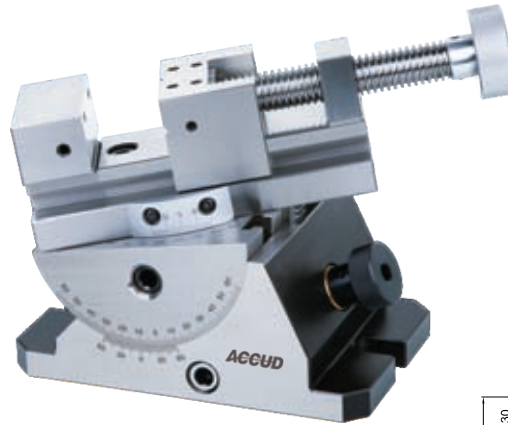


Code	Range of radius (R)	Range of leg length (C)	Accuracy
164-001-11	0-15mm	0-6mm	±0.05mm
164-002-11	0-30mm	0-18mm	±0.05mm

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



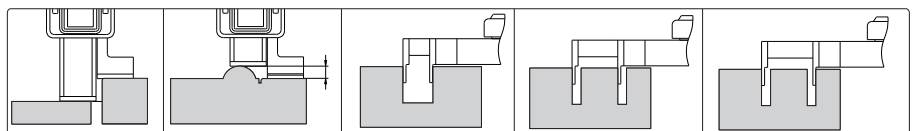
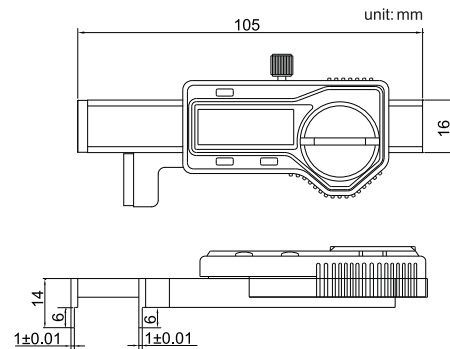
Code	Jaw opening(Q)	Jaw width(W)
656-080-01	0-80mm	70mm

437

STEP AND GAP GAGE

- ◆ Measure step height and gap width
- ◆ Resolution: 0.01mm/0.0005"
- ◆ Buttons: on/off, zero, mm/inch
- ◆ Automatic power on/off
- ◆ Data output (code: 100-11 or 100-12)
- ◆ Made of stainless steel
- ◆ Supplied with zero setting block

zero setting block

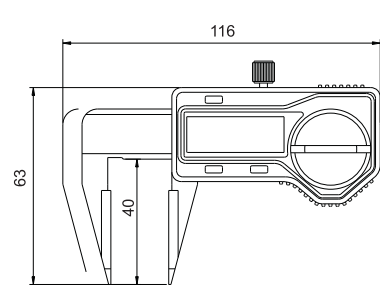


Code	Range	Accuracy
437-001-11	0-12.7mm/0-0.5"	±0.03mm

435

DIGITAL SNAP GAGE

- ◆ Resolution: 0.01mm/0.0005"
- ◆ Buttons: on/off, zero, mm/inch
- ◆ Automatic power on/off
- ◆ Data output (code: 100-11 or 100-12)
- ◆ Made of stainless steel



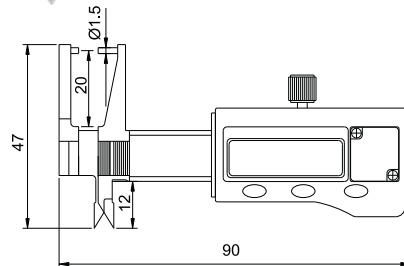
unit: mm

Code	Range	Accuracy
435-001-11	0-25mm/0-1"	±0.03mm

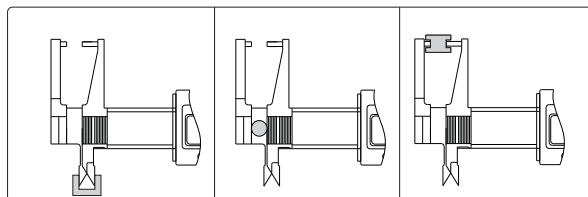
436

DIGITAL 3-PURPOSE SNAP GAGE

- ◆ Resolution: 0.01mm/0.0005"
- ◆ Buttons: on/off, zero, mm/inch
- ◆ Made of stainless steel



unit: mm



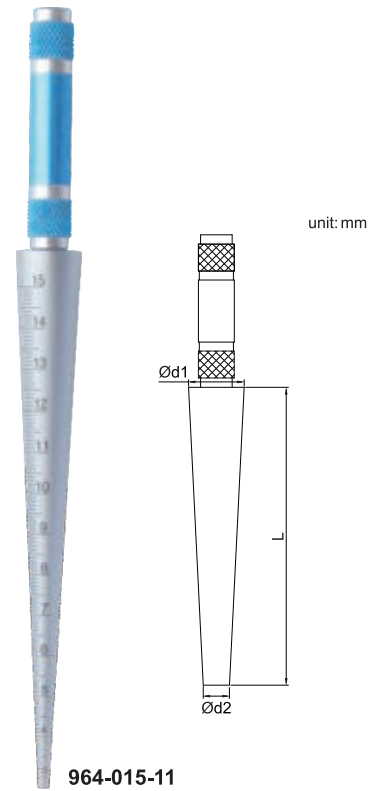
Code	Range	Accuracy
436-001-11	0-25mm/0-1"	±0.03mm

SERIES 964

TAPER BORE GAGE

- ◆ Quick measuring diameter of the bore
- ◆ Graduation: 0.1mm
- ◆ Hardened steel, HRC50-58
- ◆ Satin chrome plated surface
- ◆ Aluminium oxidized handle

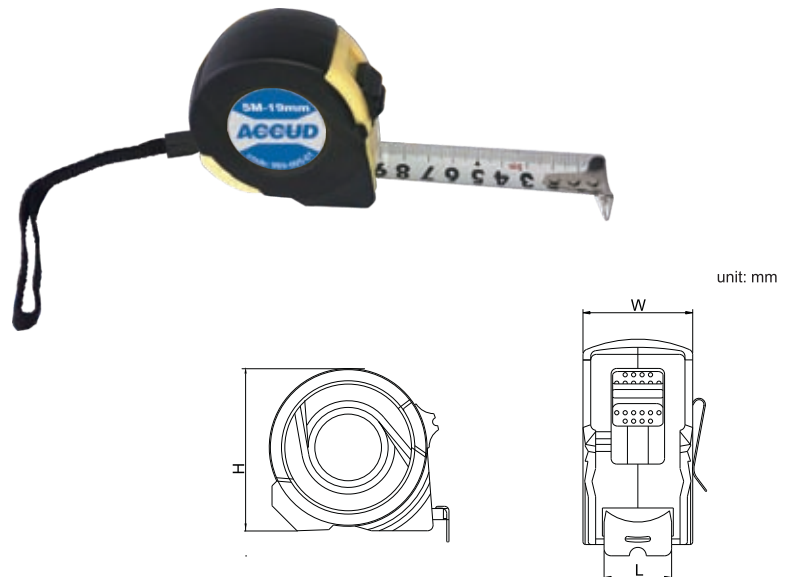
Code	Range	Accuracy	L	Ød1	Ød2
964-006-11	1-6.5mm	±0.05mm	62.5	7	0.8
964-015-11	3-15mm	±0.05mm	143	17	2.8
964-030-11	15-30mm	±0.05mm	165	31	14.7
964-045-11	30-45mm	±0.05mm	165	46	29.6



SERIES 989

MEASURING TAPE

- ◆ Matt Nylon coating tape, wear resistance

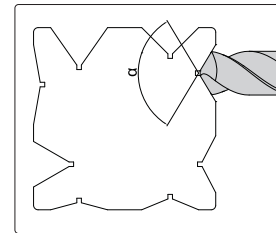
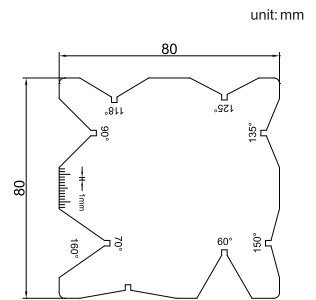
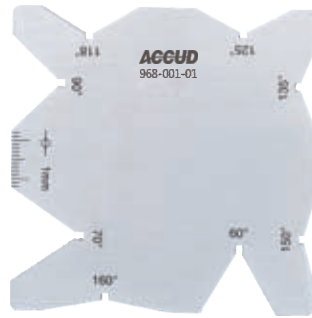


Code	Range	Graduation	Width of tape L	W	H
989-003-01	0-3m	1mm	16mm	33mm	60mm
989-005-01	0-5m	1mm	19mm	33mm	68mm

968

DRILL ANGLE GAGE

- ◆ Check drills with angle 60°, 70°, 90°, 118°, 125°, 135°, 150° or 160°
- ◆ Made of stainless steel

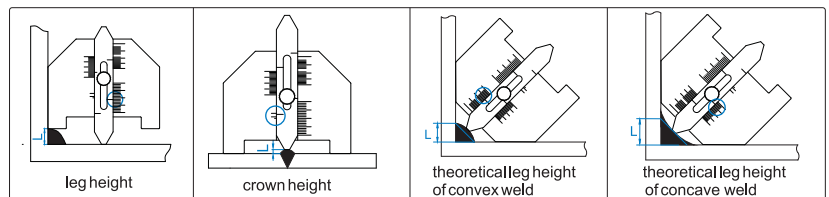
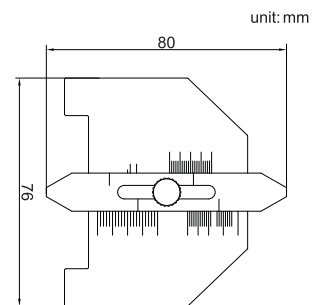
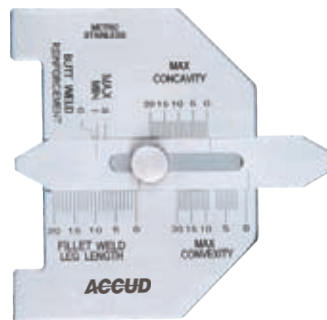


Code	Accuracy
968-001-01	±0.5°

979

WELDING GAGE

- ◆ Made of stainless steel

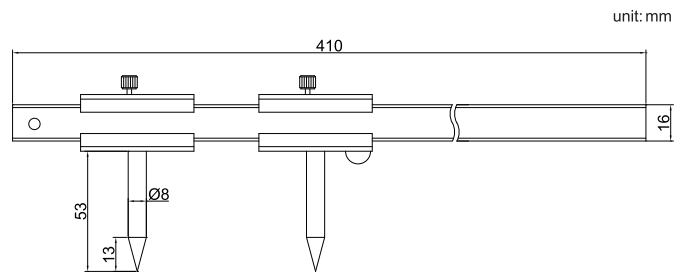


Code	Range	Graduation	Accuracy	Measurement
979-020-01	0-20mm	1mm	±0.5mm	leg height
	0-3mm	—	±0.5mm	crown height
	0-20mm	1mm	±0.5mm	theoretical leg height of convex weld
	0-20mm	1mm	±0.5mm	theoretical leg height of concave

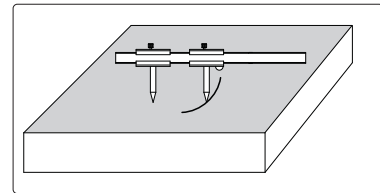
901

SCRIBER CALIPER

- ◆ Graduation: 0.1mm
- ◆ Made of stainless steel
- ◆ Satin chrome plated reading surface
- ◆ Hardened scriber tips



unit: mm

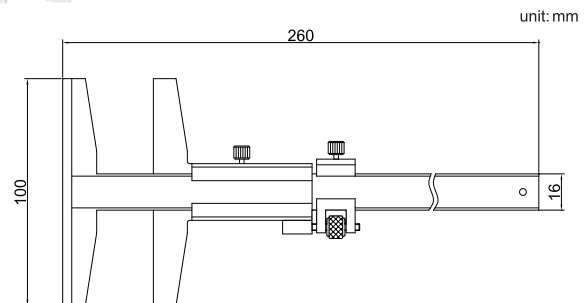


Code	Range	Accuracy
901-012-11	51-300mm	±0.1mm

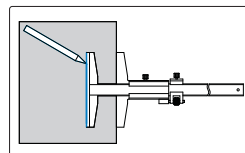
902

T-SHAPE MARKING GAGE

- ◆ Made of stainless steel
- ◆ Satin chrome plated reading surface



unit: mm

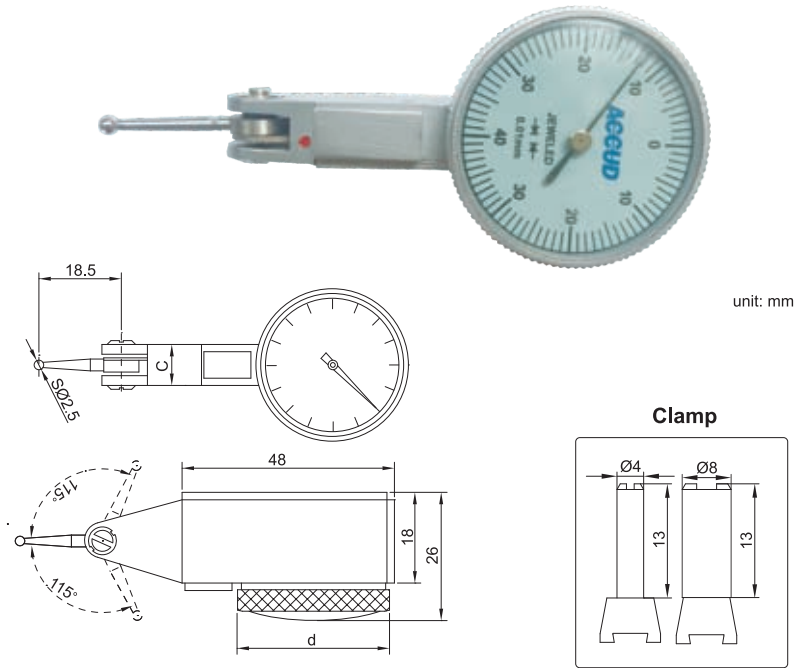


Code	Range	Graduation	Accuracy
902-006-51	0-150mm	0.05mm	±0.05mm

259

DIAL TEST INDICATOR

- ◆ Jeweled bearing
- ◆ Double scale spacing
- ◆ Anti-magnetic aluminium alloy body
- ◆ With two clamps: Ø4mm and Ø8mm



unit: mm

Code	Range	Bezel(d)	Graduation	Styli	Accuracy	Hysteresis	Scale	C
259-008-11	0.8mm	Ø31mm	0.01mm	steel	13µm	3µm	0-40-0	8.3mm

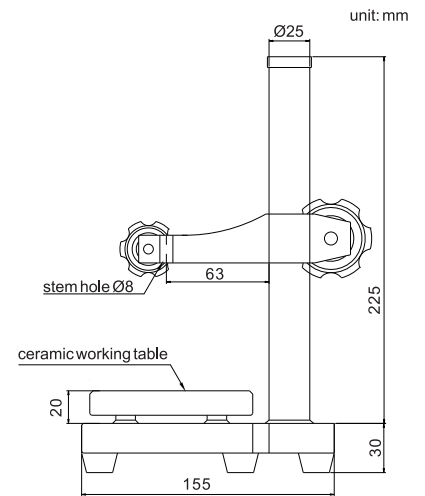
SERIES 290

INDICATOR STAND WITH CERAMIC BASE

- ◆ Working table is made of ceramic
- ◆ Holder vertical travel: 150mm



290-100-01



unit: mm

Code	Stem hole	Ceramic flatness	Ceramic size
290-080-01	Ø8mm	1.5µm	Ø80mm
290-100-01	Ø8mm	1.5µm	100x100mm

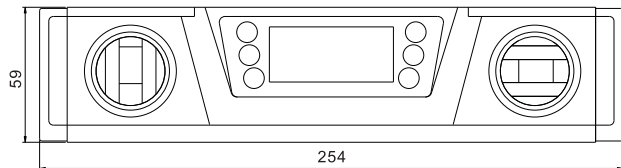
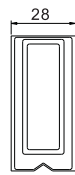
724

DIGITAL LEVEL

- ◆ Use as level or protractor
- ◆ Accuracy : $\pm 0.1^\circ$ (vertical and horizontal), $\pm 0.2^\circ$ (other direction)
- ◆ Buttons: on/off, CAL, hold, alarm, Mode, Ref
- ◆ With vertical and horizontal vials
- ◆ Magnetic base
- ◆ Adjust the display direction automatically



unit: mm



Code	Range	Resolution
724-360-01	0-360° (4x90°)	0.05°

SERIES 913/914/915

FEELER

- ◆ Meets DIN2275
- ◆ Accuracy: $\pm(3+T/80)\mu\text{m}$, T is the thickness of leaves, unit: μm

unit: mm



913-100-20

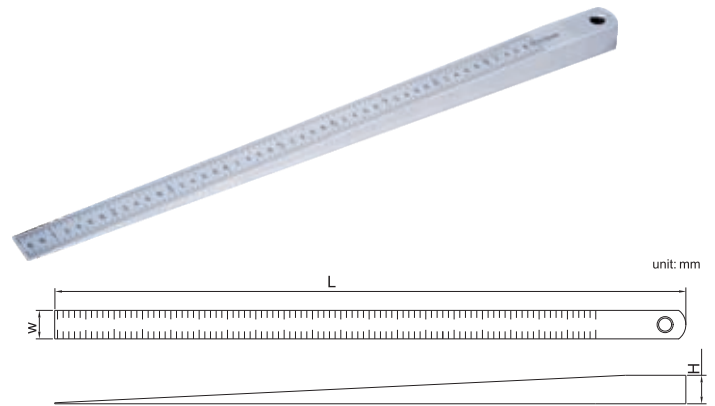
NEW

Code	Range	Quantity	Leaves thickness (mm)	L
913-100-13	0.05-1.00mm	13	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00	150
914-100-13	0.05-1.00mm	13		200
915-100-13	0.02-1.00mm	13		300
913-100-17	0.02-1.00mm	17	0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.75, 1.00	150
914-100-17	0.02-1.00mm	17		200
915-100-17	0.05-1.00mm	17		300
913-100-20	0.05-1.00mm	20	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00	150
914-100-20	0.05-1.00mm	20		200
915-100-20	0.05-1.00mm	20		300

SERIES 961

TAPER GAUGE

- ◆ Measure the gap width
- ◆ Stain chrome plated reading surface
- ◆ Made of the stainless steel

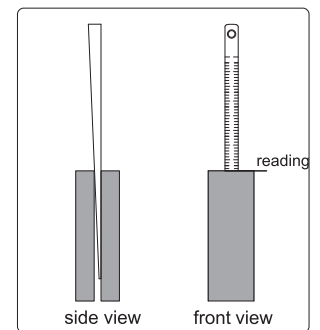


Code	Range	Graduation	Accuracy	L	W	H
961-004-05	0.2-4mm	0.05mm	±0.05mm	120	12.5	4.3
961-006-05	0.4-6mm	0.05mm	±0.05mm	166	11.5	6.5
961-010-05	0.5-10mm	0.05mm	±0.05mm	225	12.5	10.5
961-015-05	0.5-15mm	0.1mm	±0.05mm	184	11	16

NEW

NEW

NEW



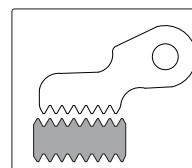
SERIES 922

PITCH GAUGE

- ◆ Measure the pitch of thread
- ◆ Accuracy: ±0.07mm



922-007-22



METRIC 60° SCREW

Code	Range	Quantity	Leaves pitch
922-007-22	0.4-7.0mm	22	0.4, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm
922-007-24	0.25-7.0mm	24	0.25, 0.3, 0.35, 0.4, 0.5, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm
922-006-24	0.25-6.0mm	24	0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6mm
922-025-28	0.25-2.5mm	28	0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.55, 0.6, 0.65, 0.7, 0.75, 0.8, 0.9, 1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0, 2.5mm

NEW