

ASIMETO

Empowering Possibilities

EMAS-202609



Precision

is not only defined by degrees of exactness. It is defined by the vision and skill of engineers. By problems solved, challenges overcome and reputations made. The real value of precision is the power it gives engineers to turn plans into reality.

ASIMETO - Empowering Possibilities.

Asimeto was founded in 2004 by renowned German metrologist Manfred Eisinger. Since then, the company has rapidly established a reputation for manufacturing high-performance precision tools and solutions and delivering them at unexpectedly affordable prices.

Asimeto continues to win market share by applying German metrological design, American technological innovation and Asian manufacturing competitiveness across a broad range of integrated precision solutions, distributed through a global network. Every tool is ISO17025 certified for dependable accuracy and to ensure calibration is compliant with the regulatory requirements of each local market. Increasingly, Asimeto is the choice of engineers the world over including companies like Volkswagen, Guhring and Boeing. We invite you to discover more.

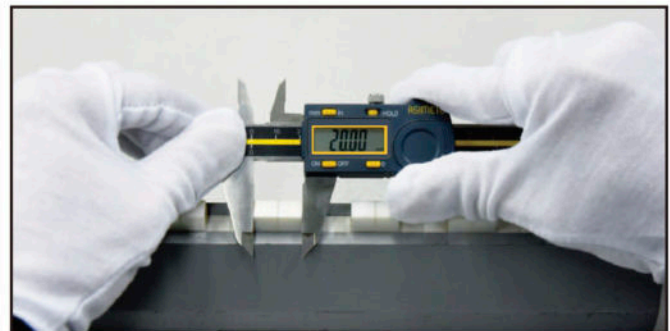


Asimeto Calibration Laboratory

The quality and measuring accuracy of all Asimeto precision tools is guaranteed by the Asimeto Calibration Laboratory. All tools are inspected for conformance to the Asimeto design specifications and are then processed through the Asimeto calibration laboratory. Only the latest state of the art calibration equipment has been selected, from the leading global manufacturers, to ensure that the calibration costs are contained by increasing throughput, without compromising measurement accuracy or repeatability.

The Asimeto Calibration Laboratory has designed and incorporated universal calibration software that applies the applicable accuracy standard to the specific destination market of the precision measuring tool. ASME, DIN and JJG are all supported.

It all means precisely that the dedication and diligence of the Asimeto Calibration Laboratory assures you that the accuracy is within the specifications of your local standard.



2

Product Description

Calibration Certificate

ASIMETO
Calibration Lab

Certificate No. 24A88571
 Part Number 307-06-5 Tool Digital Calipers
 Serial Number GE02519 Range (0 ~ 150)mm
 Standard Name DIN862 Resolution 0.01mm
 Visual Inspection Passed Function Inspection Passed

Outside Measurements

Reading	Nominal Value(mm)	Tolerance(mm) +/-	Deviation(mm)	Disposition*
1	0.00	0.02	0.00	√
2	41.30	0.02	0.01	√
3	81.50	0.02	0.02	√
4	131.40	0.03	-0.01	√

Inside Measurements

Reading	Nominal Value(mm)	Tolerance(mm) +/-	Deviation(mm)	Disposition*
5	4.00	0.02	0.01	√
6	25.00	0.02	0.00	√

Depth Measurements

Reading	Nominal Value(mm)	Tolerance(mm) +/-	Deviation(mm)	Disposition*
7	20.00	0.02	0.00	√

Master information	Serial Number	DKD Number	Due Date
Gauge Block Set	0930	1326, D-K-20153-01-00	16/03/2026

Humidity 50% ± 15%
 Uncertainty $U = 7.0 \mu\text{m} + 10^{-6} \times L$
 Calibrator QA. 03
 Approved By QA. 04

Temperature 20°C ± 0.5°C
 coverage factor $k=2$



1

Inspection Point
& Result

3

Disposition

4

Traceable No.

8 Micrometers



111 Calipers



165 Depth & Height Gauges



183 Indicators & Dial Gauges



225 Bore Gauges



235 Other Gauges



280 Gauges



309 Force Gauges



316 Testers & Optical Instrument

366 CMM Accessories



371 Numerical Index

Wireless Data Transmission Devices With 8 Channels



Digital Micrometers



Digital Calipers



Digital Indicators



And other Asimeto products equipped with 8 channels data transmission devices.



Transmitter 901-00-2
(5 PIN)



Transmitter 901-00-4
(Micro-USB)

- High reliability
- Small size
- 15 meters valid distance
- LED or buzzer indicating
- 8 channels
- Work with Microsoft Office directly



Receiver 901-00-3

8 Channels Wireless Transmitters And Receiver

Function	Used For	Frequency	Code No.
Transmitter	IP65 Digital Indicators/IP54 Digital Micrometers	2.4GHz	901-00-2
Transmitter	ABS Digital Calipers/ABS Heavy Duty Digital Calipers/IP65 Digital Micrometers/IP67 Digital Indicators	2.4GHz	901-00-4
Transmitter With Footswitch Interface	ABS Digital Calipers/ABS Heavy Duty Digital Calipers/IP65 Digital Micrometers/IP67 Digital Indicators	2.4GHz	901-00-6
Transmitter With Footswitch Interface	IP65 Digital Indicators/IP54 Digital Micrometers	2.4GHz	901-00-7
Receiver	ABS Digital Calipers/ABS Heavy Duty Digital Calipers/ IP65/IP67 Digital Indicators	2.4GHz	901-00-3

Bluetooth Data Transmission Devices



Digital Micrometers



Digital Calipers



Digital Indicators



And other Asimeto products equipped with bluetooth data transmission devices.



Transmitter 901-01-0
(5 PIN)



Transmitter 901-01-2
(Micro-USB)

- High reliability
- 10 meters valid distance, connect to the equipment with built-in bluetooth, no additional receiving device is needed.
- Dot or comma data format are optional
- May connect foot-switch, releasing hands
- Desktop software and mobile app are both available for free.
- Data transmission format can be selected*



Bluetooth Transmitters			
Function	Used For	Frequency	Code No.
Transmitter	IP65 Digital Indicators/IP54 Digital Micrometers	Bluetooth	901-01-0
Transmitter	ABS Digital Calipers/ABS Heavy Duty Digital Calipers/IP65 Digital Micrometers	Bluetooth	901-01-2
Transmitter With Footswitch Interface	IP65 Digital Indicators/IP54 Digital Micrometers	Bluetooth	901-01-3
Transmitter With Footswitch Interface	ABS Digital Calipers/ABS Heavy Duty Digital Calipers/IP65 Digital Micrometers	Bluetooth	901-01-4
Transmitter	IP65 Digital Micrometers	Bluetooth	901-01-5

Data Collection Measuring Tools

ABS Digital Caliper



Digital Micrometer



Digital Indicator



	A1	A2	A3
1	10.02	15.53	20.44
2	10.04	15.53	20.46
3	10.01	15.52	20.44
4	10.01	15.53	20.45
5	10.02	15.54	20.46
Average	10.02	15.53	20.45

The virtual keyboard collects data and transmits directly into Microsoft standard software (Excel, Access)

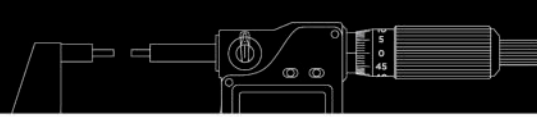
Measurement Result



	Used For	Interface To PC	Data	Corresponding	Code.No
	ABS Digital Calipers IP65 Digital Micrometers Heavy Duty Digital Calipers	USB	Dot Data Format	307-XX-2 ; 307-XX-3 105-XX-4 ; 105-XX-5	900-05-4
			Comma Data Format	315-XX-6 ; 315-XX-8	900-05-5
	Digital Calipers	USB	Dot Data Format	307-06-4/5 307-08-4/5	900-06-0
			Comma Data Format	307-12-4/5	900-06-1
	IP65 Digital Indicators	USB	Dot Data Format	407-XX-2 ; 407-XX-3 407-XX-4 ; 407-XX-5	900-07-0
			Comma Data Format		900-07-1
	Digital Indicators	USB	Dot Data Format	405-95-X ; 405-01-X 405-02-X ; 405-04-X	900-20-0
	Digital Micrometers	USB	Dot Data Format	Special Digital Micrometers	900-10-0
	Digital Micrometers	USB	Dot Data Format	Special Digital Micrometers	900-10-2
	Footswitch For Wireless Devices				900-90-1

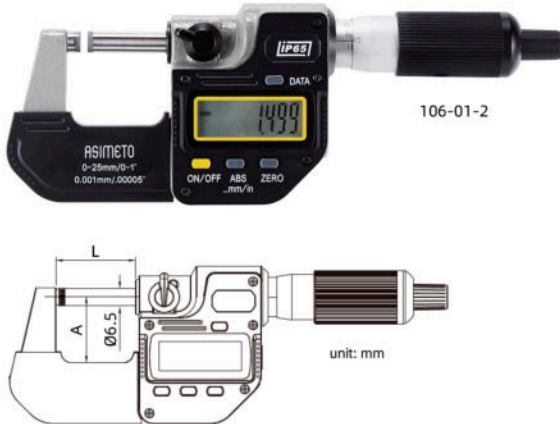
Micrometers

9	IP65 Speedymike Digital Micrometers	49	Multi-Anvil Micrometers
10	IP65 Digital Outside Micrometers	51	Gear Tooth Micrometers
11	IP65 Digital Outside Micrometers	52	Anvils For Gear Tooth Micrometers
13	IP54 Digital Outside Micrometers	53	Universal Micrometers
14	Outside Micrometers	55	Caliper Micrometers
18	Antimagnetic Micrometers	56	Sheet Metal Micrometers
18	Quick-Setting Outside Micrometers, 1mm Rev	57	Limit Micrometers
19	Interchangeable Anvil Outside Micrometers	57	Wire Micrometers
21	Micrometers With Adjustable Anvils	58	Hub Micrometers
22	IP54 Digital Indicating Micrometers	58	Can Seam Micrometers
24	Indicating Micrometers	59	Digital Grip Three Point Internal Micrometers
25	Dial Snap Gauges	60	Digital Pistol-Grip Three Point Internal Micrometers
26	Blade Micrometers	61	Digital Two And Three Point Internal Micrometers
28	Point Micrometers	62	Digital Three Point Internal Micrometers
30	Single Point Micrometers	71	Inside Micrometers
31	Spline Micrometers	75	Micrometer Stands
34	Tube Micrometers	76	Inside Micrometers - Interchangeable Rod Type
38	Deep Throat Micrometers	77	Inside Micrometers With Interchangeable Anvils
40	Disc Micrometers	78	Depth Micrometers
42	Jaw Type Micrometers	80	Groove Micrometers
44	Disc Brake Micrometers	81	Micrometer Heads
45	V-Anvil Micrometers	107	Snap Gauges
47	Screw Thread Micrometers	109	Micrometer Standards
48	Anvils (For Screw 60° ISO)	110	Screw Thread Micrometer Standards



IP65 Speedymike Digital Micrometers

106 Series



FEATURES

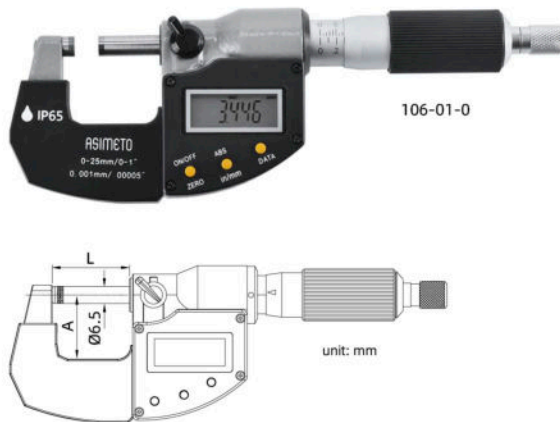
- Resolution: .00005"/0.001mm
- With 2mm feed per revolution
- Built-in wireless transmission
- Button function: On/Off, ABS, mm/inch, Zero, Data transfer
- Carbide tipped measuring faces
- Actual absolute measuring position will be displayed when turn on the tools
- Auto-Off to maximize battery life
- Setting standards are included (except 0-25mm/0-1")
- Protection level IP65



Inch			Metric		Dimensions	
Code No.	Range	Accuracy	Range	Accuracy	L	A
106-01-2	0-1"	±.00010"	0-25mm	±0.002mm	30mm	24.5mm
106-02-2	1-2"	±.00010"	25-50mm	±0.002mm	55mm	31mm
106-03-2	2-3"	±.00010"	50-75mm	±0.003mm	81mm	44mm
106-04-2	3-4"	±.00015"	75-100mm	±0.003mm	106mm	56mm

IP65 Speedymike Digital Micrometers

106 Series

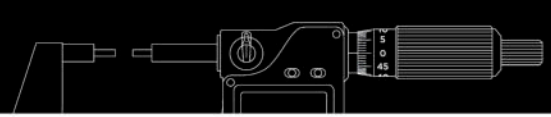


FEATURES

- Resolution: .00005"/0.001mm
- With 2mm feed per revolution
- Button function: On/Off, ABS, mm/inch, Zero, Data transfer
- Carbide tipped measuring faces
- Actual absolute measuring position will be displayed when turn on the tools
- Auto-Off to maximize battery life
- Setting standards are included (except 0-25mm/0-1")
- Protection level IP65
- Optional accessory: Cable data output: 900-05-4/5



Metric			Dimensions			
Code No.	Range	Accuracy	Range	Accuracy	L	A
106-01-0	0-1"	±.00010"	0-25mm	±0.002mm	30mm	24.5mm
106-02-0	1-2"	±.00010"	25-50mm	±0.002mm	55mm	31mm
106-03-0	2-3"	±.00010"	50-75mm	±0.003mm	81mm	44mm
106-04-0	3-4"	±.00015"	75-100mm	±0.003mm	106mm	56mm

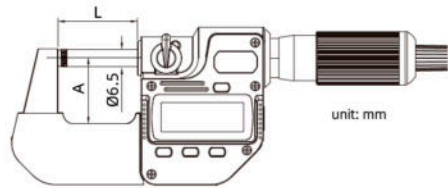


IP65 Digital Outside Micrometers

105 Series



105-01-6



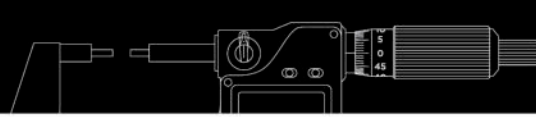
FEATURES

- Resolution: 0.00005"/0.0001mm
- Built-in Bluetooth transmission and SPC data output(optional)
- Built-in wireless transmission model, the SPC output port is unavailable
- Button function: On/Off, ABS, mm/inch, Zero, Data transfer
- Carbide tipped measuring faces
- Actual absolute measuring position will be displayed when turn on the tools
- Auto-Off to maximize battery life Built-in rechargeable lithium battery, magnetic charging port
- Setting standards are included (except 0-25mm/0-1")
- Protection level IP65
- Optional accessory:
Cable data output: 900-05-4/5



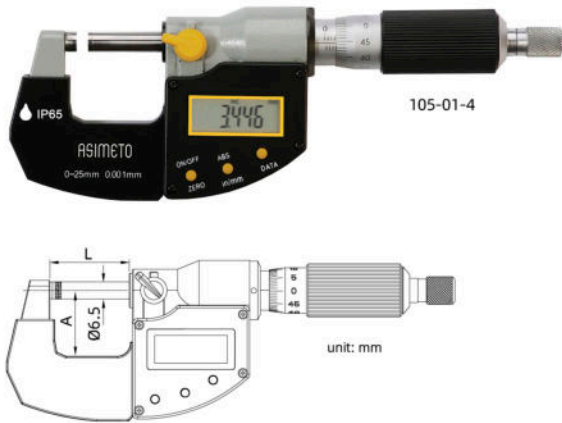
Inch				Dimensions	
Code No.	Range	Accuracy	Data Output Type	L	A
105-01-7	0-1"	±0.00010"	SPC	1.181"	0.965"
105-02-7	1-2"	±0.00010"	SPC	2.165"	1.220"
105-03-7	2-3"	±0.00010"	SPC	3.189"	1.732"
105-04-7	3-4"	±0.00015"	SPC	4.173"	2.205"
105-01-9	0-1"	±0.00010"	Bluetooth	1.181"	0.965"
105-02-9	1-2"	±0.00010"	Bluetooth	2.165"	1.220"
105-03-9	2-3"	±0.00010"	Bluetooth	3.189"	1.732"
105-04-9	3-4"	±0.00015"	Bluetooth	4.173"	2.205"

Metric				Dimensions	
Code No.	Range	Accuracy	Data Output Type	L	A
105-01-6	0-25mm	±0.002mm	SPC	30mm	24.5mm
105-02-6	25-50mm	±0.002mm	SPC	55mm	31mm
105-03-6	50-75mm	±0.003mm	SPC	81mm	44mm
105-04-6	75-100mm	±0.003mm	SPC	106mm	56mm
105-01-8	0-25mm	±0.002mm	Bluetooth	30mm	24.5mm
105-02-8	25-50mm	±0.002mm	Bluetooth	55mm	31mm
105-03-8	50-75mm	±0.003mm	Bluetooth	81mm	44mm
105-04-8	75-100mm	±0.003mm	Bluetooth	106mm	56mm



IP65 Digital Outside Micrometers

105 Series



FEATURES

- Resolution: .00005"/0.001mm
- Absolute or incremental measuring modes
- Button function: On/Off, ABS, mm/inch, Zero, Data transfer
- Carbide tipped measuring faces
- Auto-Off to maximize battery life
- Setting standards are included (except 0-25mm/0-1")
- Protection level IP65
- Optional accessory:
Cable data output: 900-05-4/5
Bluetooth data output: 901-01-2/4
Wireless data output:
Transmitting device: 901-00-4/6
Receiver device: 901-00-3



Inch				Dimensions	
Code No.	Range	Accuracy	Thimble	L	A
105-01-5	0-1"	±.00010"	Dual Ratchets	1.181"	0.965"
105-02-5	1-2"	±.00010"	Dual Ratchets	2.165"	1.220"
105-03-5	2-3"	±.00010"	Dual Ratchets	3.189"	1.732"
105-04-5	3-4"	±.00015"	Dual Ratchets	4.173"	2.205"
105-05-5	4-5"	±.00015"	Dual Ratchets	5.157"	2.677"
105-06-5	5-6"	±.00015"	Dual Ratchets	6.142"	3.189"

Metric				Dimensions	
Code No.	Range	Accuracy	Thimble	L	A
105-01-4	0-25mm	±0.002mm	Dual Ratchets	30mm	24.5mm
105-02-4	25-50mm	±0.002mm	Dual Ratchets	55mm	31mm
105-03-4	50-75mm	±0.003mm	Dual Ratchets	81mm	44mm
105-04-4	75-100mm	±0.003mm	Dual Ratchets	106mm	56mm
105-05-4	100-125mm	±0.003mm	Dual Ratchets	131mm	68mm
105-06-4	125-150mm	±0.003mm	Dual Ratchets	156mm	81mm

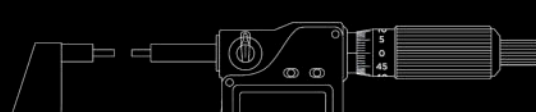
Sets



105-66-9

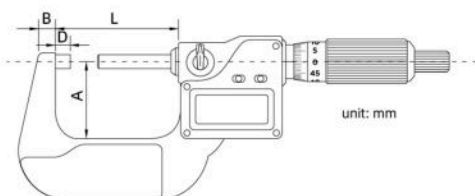
Inch Sets			
Code No.	Range	Qty.	Thimble
105-63-9	0-3"	3	Dual Ratchets
105-64-9	0-4"	4	Dual Ratchets
105-66-9	0-6"	6	Dual Ratchets

Metric Sets			
Code No.	Range	Qty.	Thimble
105-63-8	0-75mm	3	Dual Ratchets
105-64-8	0-100mm	4	Dual Ratchets
105-66-8	0-150mm	6	Dual Ratchets



IP65 Digital Outside Micrometers

105 Series



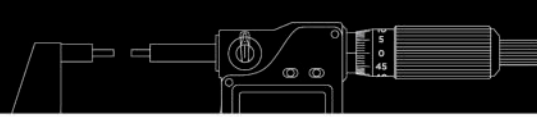
FEATURES

- Resolution:
Digital: .00005"/0.001mm
Scale: .0001"/0.01mm
- Absolute or incremental measuring modes
- Button function: On/Off, Set, ABS/INC, mm/inch
- Carbide tipped measuring faces
- Auto-Off to maximize battery life
- Setting standards are included (except 0-25mm/0-1")
- Protection level IP65
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5



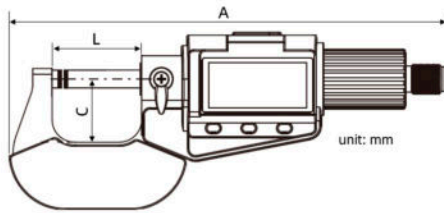
Inch			Dimensions			
Code No.	Range	Accuracy	A	L	B	D
105-01-1	0-1"	±.00010"	.945"	1.280"	.236"	.118"
105-02-1	1-2"	±.00010"	1.260"	2.264"	.315"	.118"
105-03-1	2-3"	±.00010"	1.752"	3.248"	.315"	.118"
105-04-1	3-4"	±.00015"	2.244"	4.232"	.315"	.118"
105-05-1	4-5"	±.00015"	2.756"	5.236"	.394"	.118"
105-06-1	5-6"	±.00015"	3.228"	6.240"	.394"	.118"
105-07-1	6-7"	±.00015"	3.720"	7.244"	.472"	.217"
105-08-1	7-8"	±.00015"	4.213"	8.248"	.472"	.217"
105-09-1	8-9"	±.00015"	5.098"	9.213"	.906"	.217"
105-10-1	9-10"	±.00020"	5.610"	10.217"	.906"	.217"
105-11-1	10-11"	±.00020"	6.102"	11.220"	.906"	.217"
105-12-1	11-12"	±.00020"	6.595"	12.224"	.906"	.217"

Metric			Dimensions			
Code No.	Range	Accuracy	A	L	B	D
105-01-0	0-25mm	±0.002mm	24mm	32.5mm	6mm	3mm
105-02-0	25-50mm	±0.002mm	32mm	57.5mm	8mm	3mm
105-03-0	50-75mm	±0.003mm	44.5mm	82.5mm	8mm	3mm
105-04-0	75-100mm	±0.003mm	57mm	107.5mm	8mm	3mm
105-05-0	100-125mm	±0.003mm	70mm	133mm	10mm	3mm
105-06-0	125-150mm	±0.003mm	82mm	158.5mm	10mm	3mm
105-07-0	150-175mm	±0.004mm	94.5mm	184mm	12mm	5.5mm
105-08-0	175-200mm	±0.004mm	107.0mm	209.5mm	12mm	5.5mm
105-09-0	200-225mm	±0.004mm	129.5mm	234mm	23mm	5.5mm
105-10-0	225-250mm	±0.004mm	142.5mm	259.5mm	23mm	5.5mm
105-11-0	250-275mm	±0.005mm	155.0mm	285mm	23mm	5.5mm
105-12-0	275-300mm	±0.005mm	167.5mm	310.5mm	23mm	5.5mm



IP54 Digital Outside Micrometers

116 Series



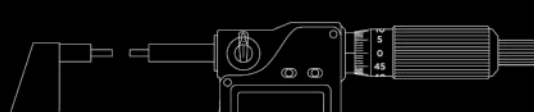
FEATURES

- Resolution: .00005"/0.001mm
- Button function: On/Off, Set, ABS/INC, mm/inch, Data transfer
- Carbide tipped measuring faces
- Auto-Off to maximize battery life
- Setting standards are included (except 0-25mm/0-1")
- Protection level IP54
- Optional accessory:
Cable data output: 900-07-0/1
Bluetooth data output: 901-01-0/3
Wireless data output:
Transmitting device: 901-00-2/7
Receiver Device: 901-00-3



Inch			Dimensions		
Code No.	Range	Accuracy	L	A	C
116-01-3	0-1"	±.00010"	1.260"	6.142"	.886"
116-02-3	1-2"	±.00010"	2.224"	7.300"	1.221"
116-03-3	2-3"	±.00010"	3.209"	8.343"	1.732"
116-04-3	3-4"	±.00015"	4.217"	9.445"	2.205"
116-05-3	4-5"	±.00015"	5.197"	10.598"	2.677"
116-06-3	5-6"	±.00015"	6.161"	11.634"	3.189"

Metric			Dimensions		
Code No.	Range	Accuracy	L	A	C
116-01-2	0-25mm	±0.002mm	32mm	156mm	22.5mm
116-02-2	25-50mm	±0.002mm	56.5mm	185.4mm	31mm
116-03-2	50-75mm	±0.003mm	81.5mm	211.9mm	44mm
116-04-2	75-100mm	±0.003mm	107.1mm	239.9mm	56mm
116-05-2	100-125mm	±0.003mm	132mm	269.2mm	68mm
116-06-2	125-150mm	±0.003mm	156.5mm	295.5mm	81mm

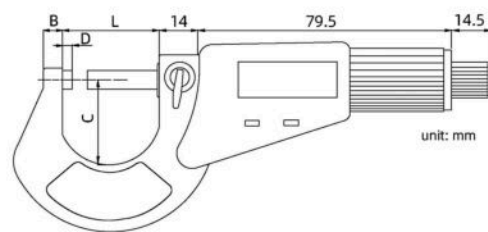


Digital Outside Micrometers

116 Series



116-01-0



unit: mm

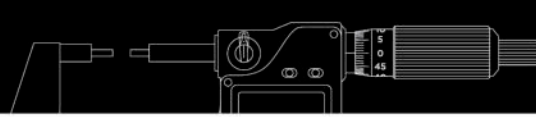
FEATURES

- Resolution: .00005"/0.001mm
- Ratchet friction thimble
- Button function: On/Off, Set, ABS/INC, mm/inch,
- Carbide tipped measuring faces
- Auto-Off to maximize battery life
- Setting standards are included (except 0-25mm/0-1")



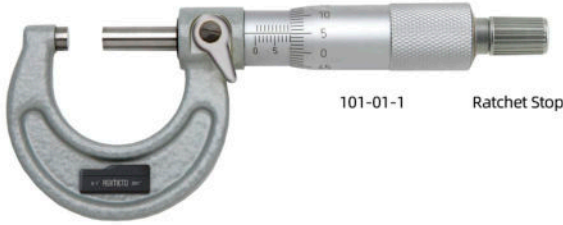
Inch			Dimensions			
Code No.	Range	Accuracy	C	L	B	D
116-01-1	0-1"	±.00010"	1.083"	1.260"	.236"	.118"
116-02-1	1-2"	±.00010"	1.457"	2.244"	.315"	.118"
116-03-1	2-3"	±.00010"	1.969"	3.228"	.315"	.118"
116-04-1	3-4"	±.00015"	2.402"	4.213"	.394"	.118"
116-05-1	4-5"	±.00015"	2.874"	5.236"	.394"	.118"
116-06-1	5-6"	±.00015"	3.346"	6.220"	.394"	.118"
116-07-1	6-7"	±.00015"	3.858"	7.205"	.472"	.217"
116-08-1	7-8"	±.00015"	4.331"	8.228"	.472"	.217"

Metric			Dimensions			
Code No.	Range	Accuracy	C	L	B	D
116-01-0	0-25mm	±0.002mm	27.5mm	32mm	6mm	3mm
116-02-0	25-50mm	±0.002mm	37mm	57mm	8mm	3mm
116-03-0	50-75mm	±0.003mm	50mm	82mm	8mm	3mm
116-04-0	75-100mm	±0.003mm	61mm	107mm	10mm	3mm
116-05-0	100-125mm	±0.003mm	73mm	133mm	10mm	3mm
116-06-0	125-150mm	±0.003mm	85mm	158mm	10mm	3mm
116-07-0	150-175mm	±0.004mm	98mm	183mm	12mm	5.5mm
116-08-0	175-200mm	±0.004mm	110mm	209mm	12mm	5.5mm

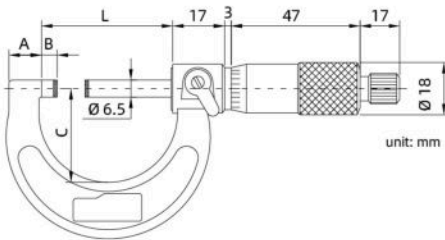


Outside Micrometers-Inch Models

101/103 Series



101-01-1 Ratchet Stop



unit: mm

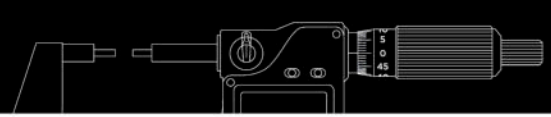
FEATURES

- Graduation: .001"/.0001"
- Flatness: .000024"
- Ratchet Stop and Ratchet Thimble are optional
- Carbide tipped measuring faces
- Setting standards are included (except 0-25mm/0-1")



Ratchet Thimble

Ratchet Stop		Ratchet Thimble		Dimensions				
Code No.	Code No.	Range	Graduation	Accuracy	A	B	C	L
101-01-1	103-01-5	0-1"	.001"	±.00010"	.354"	.118"	1.102"	1.260"
101-02-1	103-02-5	1-2"	.001"	±.00010"	.551"	.118"	1.496"	2.244"
101-03-1	103-03-5	2-3"	.001"	±.00010"	.591"	.118"	1.929"	3.228"
101-04-1	103-04-5	3-4"	.001"	±.00015"	.591"	.118"	2.362"	4.213"
101-05-1	103-05-5	4-5"	.001"	±.00015"	.650"	.118"	2.874"	5.236"
101-06-1	103-06-5	5-6"	.001"	±.00015"	.650"	.118"	3.346"	6.22"
101-07-1	103-07-5	6-7"	.001"	±.00020"	.764"	.118"	4.094"	7.205"
101-08-1	103-08-5	7-8"	.001"	±.00020"	.764"	.118"	4.606"	8.228"
101-09-1	103-09-5	8-9"	.001"	±.00020"	.764"	.118"	5.118"	9.213"
101-10-1	103-10-5	9-10"	.001"	±.00025"	.764"	.118"	5.591"	10.236"
101-11-1	103-11-5	10-11"	.001"	±.00025"	.764"	.118"	6.102"	11.221"
101-12-1	103-12-5	11-12"	.001"	±.00025"	.764"	.118"	6.614"	12.205"
101-01-3	103-01-7	0-1"	.0001"	±.00010"	.354"	.118"	1.102"	1.260"
101-02-3	103-02-7	1-2"	.0001"	±.00010"	.551"	.118"	1.496"	2.244"
101-03-3	103-03-7	2-3"	.0001"	±.00010"	.591"	.118"	1.929"	3.228"
101-04-3	103-04-7	3-4"	.0001"	±.00015"	.591"	.118"	2.362"	4.213"
101-05-3	103-05-7	4-5"	.0001"	±.00015"	.650"	.118"	2.874"	5.236"
101-06-3	103-06-7	5-6"	.0001"	±.00015"	.650"	.118"	3.346"	6.22"
101-07-3	103-07-7	6-7"	.0001"	±.00020"	.764"	.118"	4.094"	7.205"
101-08-3	103-08-7	7-8"	.0001"	±.00020"	.764"	.118"	4.606"	8.228"
101-09-3	103-09-7	8-9"	.0001"	±.00020"	.764"	.118"	5.118"	9.213"
101-10-3	103-10-7	9-10"	.0001"	±.00025"	.764"	.118"	5.591"	10.236"
101-11-3	103-11-7	10-11"	.0001"	±.00025"	.764"	.118"	6.102"	11.221"
101-12-3	103-12-7	11-12"	.0001"	±.00025"	.764"	.118"	6.614"	12.205"

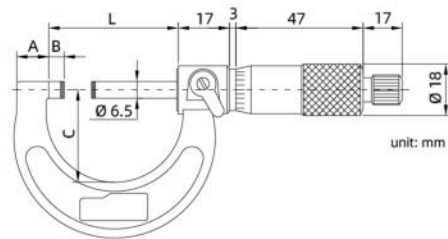


Outside Micrometers-Metric Models

101/103 Series



101-01-2 Ratchet Stop



unit: mm

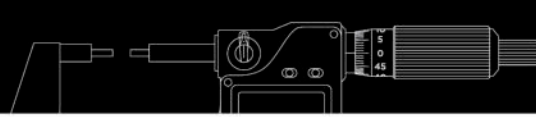
FEATURES

- Graduation: 0.01mm/0.001mm
- Flatness: 0.6μm
- Ratchet Stop and Ratchet Thimble are optional
- Carbide tipped measuring faces
- Setting standards are included (except 0-25mm/0-1")



Ratchet Thimble

Ratchet Stop		Ratchet Thimble		Dimensions				
Code No.	Code No.	Range	Graduation	Accuracy	A	B	C	L
101-01-0	103-01-4	0-25mm	0.01mm	0.004mm	9mm	3mm	28mm	32mm
101-02-0	103-02-4	25-50mm	0.01mm	0.004mm	14mm	3mm	38mm	57mm
101-03-0	103-03-4	50-75mm	0.01mm	0.005mm	15mm	3mm	49mm	82mm
101-04-0	103-04-4	75-100mm	0.01mm	0.005mm	15mm	3mm	60mm	107mm
101-05-0	103-05-4	100-125mm	0.01mm	0.006mm	16.5mm	3mm	73mm	133mm
101-06-0	103-06-4	125-150mm	0.01mm	0.006mm	16.5mm	3mm	85mm	158mm
101-07-0	103-07-4	150-175mm	0.01mm	0.007mm	19.4mm	3mm	104mm	183mm
101-08-0	103-08-4	175-200mm	0.01mm	0.007mm	19.4mm	3mm	117mm	209mm
101-09-0	103-09-4	200-225mm	0.01mm	0.008mm	19.4mm	3mm	130mm	234mm
101-10-0	103-10-4	225-250mm	0.01mm	0.008mm	19.4mm	3mm	142mm	260mm
101-11-0	103-11-4	250-275mm	0.01mm	0.009mm	19.4mm	3mm	155mm	285mm
101-12-0	103-12-4	275-300mm	0.01mm	0.009mm	19.4mm	3mm	168mm	310mm
101-01-2	103-01-6	0-25mm	0.001mm	0.004mm	9mm	3mm	28mm	32mm
101-02-2	103-02-6	25-50mm	0.001mm	0.004mm	14mm	3mm	38mm	57mm
101-03-2	103-03-6	50-75mm	0.001mm	0.005mm	15mm	3mm	49mm	82mm
101-04-2	103-04-6	75-100mm	0.001mm	0.005mm	15mm	3mm	60mm	107mm
101-05-2	103-05-6	100-125mm	0.001mm	0.006mm	16.5mm	3mm	73mm	133mm
101-06-2	103-06-6	125-150mm	0.001mm	0.006mm	16.5mm	3mm	85mm	158mm
101-07-2	103-07-6	150-175mm	0.001mm	0.007mm	19.4mm	3mm	104mm	183mm
101-08-2	103-08-6	175-200mm	0.001mm	0.007mm	19.4mm	3mm	117mm	209mm
101-09-2	103-09-6	200-225mm	0.001mm	0.008mm	19.4mm	3mm	130mm	234mm
101-10-2	103-10-6	225-250mm	0.001mm	0.008mm	19.4mm	3mm	142mm	260mm
101-11-2	103-11-6	250-275mm	0.001mm	0.009mm	19.4mm	3mm	155mm	285mm
101-12-2	103-12-6	275-300mm	0.001mm	0.009mm	19.4mm	3mm	168mm	310mm



Outside Micrometer Sets

101 Series



101-66-8

Inch	Ratchet Stop	
Code No.	Range	Graduation
101-63-9	0-3"	.001"
101-64-9	0-4"	.001"
101-66-9	0-6"	.001"
101-72-9	0-12"	.001"
101-82-9	6-12"	.001"
101-63-7	0-3"	.0001"
101-64-7	0-4"	.0001"
101-66-7	0-6"	.0001"
101-72-7	0-12"	.0001"
101-82-7	6-12"	.0001"

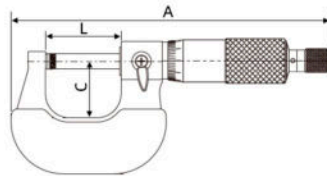
Metric	Ratchet Stop	
Code No.	Range	Graduation
101-63-8	0-75mm	0.01mm
101-64-8	0-100mm	0.01mm
101-66-8	0-150mm	0.01mm
101-72-8	0-300mm	0.01mm
101-82-8	150-300mm	0.01mm
101-63-6	0-75mm	0.001mm
101-64-6	0-100mm	0.001mm
101-66-6	0-150mm	0.001mm
101-72-6	0-300mm	0.001mm
101-82-6	150-300mm	0.001mm

Outside Micrometer

102 Series



102-01-0

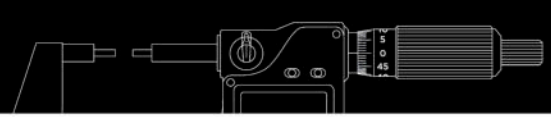


FEATURES

- Graduation: .001"/0.01mm
- Flatness: 0.6µm
- Ratchet Stop
- Carbide tipped measuring faces
- Setting standards are included (except 0-25mm/0-1")

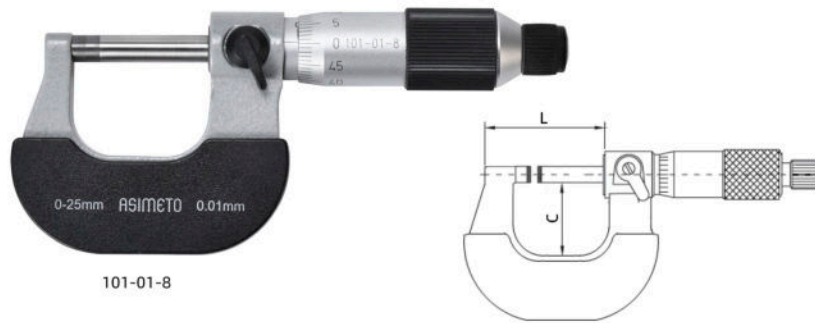
Inch	Dimensions				
Code No.	Range	Accuracy	L	A	C
102-01-1	0-1"	±.00010"	1.221"	5.031"	0.886"
102-02-1	1-2"	±.00010"	2.224"	6.303"	1.221"
102-03-1	2-3"	±.00010"	3.209"	7.347"	1.732"
102-04-1	3-4"	±.00015"	4.217"	8.449"	2.205"
102-05-1	4-5"	±.00015"	5.217"	9.579"	2.677"
102-06-1	5-6"	±.00015"	6.201"	10.673"	3.150"

Metric	Dimensions				
Code No.	Range	Accuracy	L	A	C
102-01-0	0-25mm	0.004mm	32mm	156mm	22.5mm
102-02-0	25-50mm	0.004mm	56.5mm	185.4mm	31mm
102-03-0	50-75mm	0.005mm	81.5mm	211.9mm	44mm
102-04-0	75-100mm	0.005mm	107.1mm	239.9mm	56mm
102-05-0	100-125mm	0.006mm	132mm	269.2mm	68mm
102-06-0	125-150mm	0.006mm	156.5mm	295.5mm	81mm



Antimagnetic Micrometers

101 Series



FEATURES

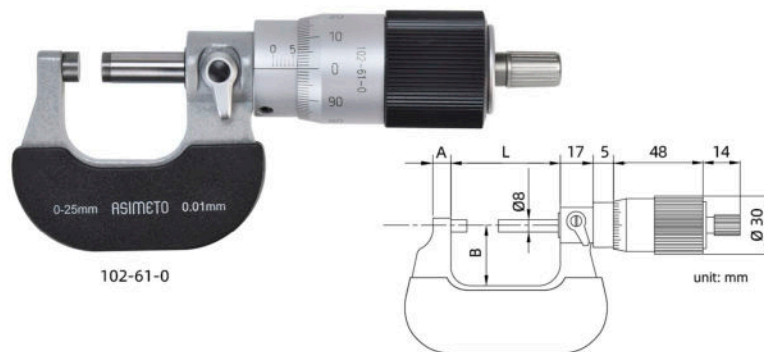
- Graduation: 0.001"/0.01mm
- Suitable for magnetic materials
- Non-magnetic carbide measuring faces
- Setting standards are included (except 0-25mm/0-1")

Inch				
Code No.	Range	Accuracy	L	C
101-01-9	0-1"	±.00010"	1.26"	0.94"
101-02-9	1-2"	±.00010"	2.24"	1.26"
101-03-9	2-3"	±.00010"	3.23"	1.77"
101-04-9	3-4"	±.00015"	4.02"	2.24"

Metric				
Code No.	Range	Accuracy	L	C
101-01-8	0-25mm	0.004mm	32mm	24mm
101-02-8	25-50mm	0.004mm	57mm	32mm
101-03-8	50-75mm	0.005mm	82mm	45mm
101-04-8	75-100mm	0.005mm	102mm	57mm

Quick-Setting Outside Micrometers, 1mm Rev

102 Series

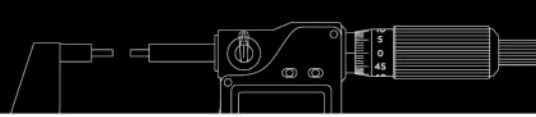


FEATURES

- Graduation: 0.01mm
- Flatness: 0.3μm
- Ratchet thimble
- 1mm thread pitch for quick setting
- The measurement can be read directly from the thimble due to the 100 step graduation
- Carbide tipped measuring faces
- Setting standards are included (except 0-25mm/0-1")

Inch		Dimensions			
Code No.	Range	Accuracy	A	B	L
102-61-0	0-1"	±.0001"	.236"	.945"	1.260"
102-62-0	1-2"	±.0001"	.315"	1.260"	2.244"
102-63-0	2-3"	±.0001"	.315"	1.772"	3.228"
102-64-0	3-4"	±.00015"	.315"	2.244"	4.213"

Metric		Dimensions			
Code No.	Range	Accuracy	A	B	L
102-61-0	0-25mm	0.004mm	6mm	24mm	32mm
102-62-0	25-50mm	0.004mm	8mm	32mm	57mm
102-63-0	50-75mm	0.005mm	8mm	45mm	82mm
102-64-0	75-100mm	0.005mm	8mm	57mm	107mm

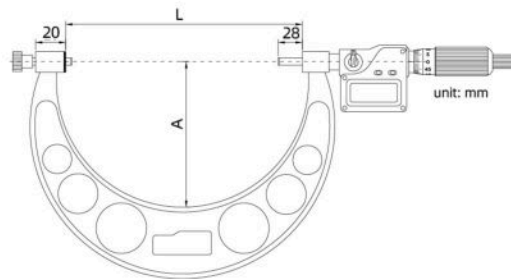


Digital Interchangeable Anvil Outside Micrometers

115 Series



115-16-0



FEATURES

- Resolution:
Digital reading: .00005"/0.001mm
Flatness: .00004"/1μm
- Button function: On/Off, Set, ABS/INC, mm/inch
- Interchangeable anvils provide wider measuring ranges
- Carbide tipped measuring faces
- Actual absolute measuring position will be displayed when turn on the tools
- Auto-Off to maximize battery life
- Grey painted steel frame for models up to 12"/300mm
- Grey welded pipe frame for models over 12"/300mm
- Protection level IP65
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5

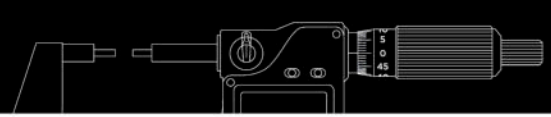
Note:

Individual anvils are matched as a set with the frame.
If using different frame, accuracy may be affected.



Inch					Dimensions	
Code No.	Range	Accuracy	Anvils	Standards	A	L
115-06-1	0-6"	±.00020"	6 pcs	5 pcs	3.228"	6.221"
115-12-1	6-12"	±.00030"	6 pcs	6 pcs	6.497"	12.126"
115-04-7	0-4"	±.00020"	4 pcs	3 pcs	2.244"	4.252"
115-08-7	4-8"	±.00025"	4 pcs	4 pcs	4.488"	8.189"
115-12-7	8-12"	±.00030"	4 pcs	4 pcs	6.496"	12.126"
115-16-1	12-16"	±.00035"	4 pcs	2 pcs	8.819"	16.102"
115-20-1	16-20"	±.00040"	4 pcs	2 pcs	10.827"	20.039"
115-24-1	20-24"	±.00045"	4 pcs	2 pcs	12.638"	23.976"
115-28-1	24-28"	±.00050"	4 pcs	2 pcs	14.606"	27.913"
115-32-1	28-32"	±.00055"	4 pcs	2 pcs	16.771"	31.850"
115-36-1	32-36"	±.00060"	4 pcs	2 pcs	18.74"	35.787"
115-40-1	36-40"	±.00065"	4 pcs	2 pcs	22.677"	39.724"

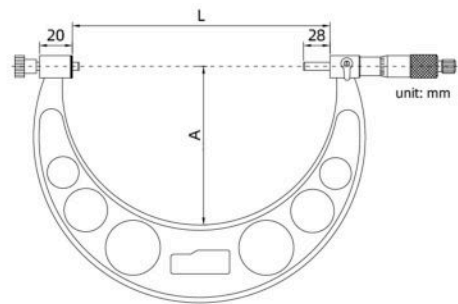
Metric					Dimensions	
Code No.	Range	Accuracy	Anvils	Standards	A	L
115-06-0	0-150mm	±0.003mm	6 pcs	5 pcs	82mm	158mm
115-12-0	150-300mm	±0.005mm	6 pcs	6 pcs	165mm	308mm
115-04-6	0-100mm	±0.003mm	4 pcs	3 pcs	57mm	108mm
115-08-6	100-200mm	±0.004mm	4 pcs	4 pcs	114mm	208mm
115-12-6	200-300mm	±0.005mm	4 pcs	4 pcs	165mm	308mm
115-16-0	300-400mm	±0.006mm	4 pcs	2 pcs	224mm	409mm
115-20-0	400-500mm	±0.007mm	4 pcs	2 pcs	275mm	509mm
115-24-0	500-600mm	±0.007mm	4 pcs	2 pcs	321mm	609mm
115-28-0	600-700mm	±0.008mm	4 pcs	2 pcs	371mm	709mm
115-32-0	700-800mm	±0.009mm	4 pcs	2 pcs	426mm	809mm
115-36-0	800-900mm	±0.010mm	4 pcs	2 pcs	476mm	909mm
115-40-0	900-1000mm	±0.010mm	4 pcs	2 pcs	576mm	1009mm



Interchangeable Anvil Outside Micrometers 111 Series



111-16-0



FEATURES

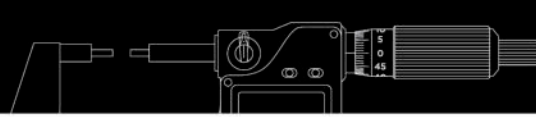
- Graduation: .001"/0.01mm
- Flatness: .00004"/1μm
- Ratchet stop
- Interchangeable anvils provide wider measuring ranges
- Carbide tipped measuring faces
- Grey painted steel frame for models up to 12"/300mm
- Grey welded pipe frame for models over 12"/300mm

Note:

Individual anvils are matched as a set with the frame.
If using different frame, accuracy may be affected.

Inch					Dimensions	
Code No.	Range	Accuracy	Anvils	Standards	A	L
111-06-1	0-6"	±.00020"	6 pcs	5 pcs	3.228"	6.221"
111-12-1	6-12"	±.00030"	6 pcs	6 pcs	6.496"	12.126"
111-04-7	0-4"	±.00020"	4 pcs	3 pcs	2.244"	4.252"
111-08-7	4-8"	±.00025"	4 pcs	4 pcs	4.488"	8.189"
111-12-7	8-12"	±.00030"	4 pcs	4 pcs	6.496"	12.126"
111-16-1	12-16"	±.00040"	4 pcs	2 pcs	8.819"	16.102"
111-20-1	16-20"	±.00050"	4 pcs	2 pcs	10.827"	20.039"
111-24-1	20-24"	±.00060"	4 pcs	2 pcs	12.638"	23.976"
111-28-1	24-28"	±.00060"	4 pcs	2 pcs	14.606"	27.913"
111-32-1	28-32"	±.00070"	4 pcs	2 pcs	16.771"	31.850"
111-36-1	32-36"	±.00075"	4 pcs	2 pcs	18.74"	35.787"
111-40-1	36-40"	±.00080"	4 pcs	2 pcs	22.677"	39.724"

Metric					Dimensions	
Code No.	Range	Accuracy	Anvils	Standards	A	L
111-06-0	0-150mm	0.006mm	6 pcs	5 pcs	82mm	158mm
111-12-0	150-300mm	0.008mm	6 pcs	6 pcs	165mm	308mm
111-04-6	0-100mm	0.005mm	4 pcs	3 pcs	57mm	108mm
111-08-6	100-200mm	0.007mm	4 pcs	4 pcs	114mm	208mm
111-12-6	200-300mm	0.009mm	4 pcs	4 pcs	165mm	308mm
111-16-0	300-400mm	0.011mm	4 pcs	2 pcs	224mm	409mm
111-20-0	400-500mm	0.013mm	4 pcs	2 pcs	275mm	509mm
111-24-0	500-600mm	0.015mm	4 pcs	2 pcs	321mm	609mm
111-28-0	600-700mm	0.016mm	4 pcs	2 pcs	371mm	709mm
111-32-0	700-800mm	0.018mm	4 pcs	2 pcs	426mm	809mm
111-36-0	800-900mm	0.020mm	4 pcs	2 pcs	476mm	909mm
111-40-0	900-1000mm	0.020mm	4 pcs	2 pcs	576mm	1009mm



Micrometers With Adjustable Anvils

111 Series



111-48-0

FEATURES

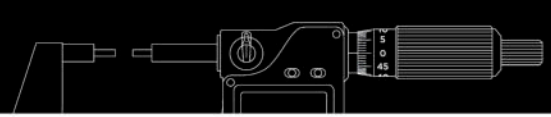
- Graduation: .001"/0.01mm
- Wide measuring range with adjustable anvil. High accuracy standard collars enable that reading does not have to be reset when changing collars
- Travel of micrometer head: 2"/50mm
Micrometer thread pitch: .05"/1mm
- Standard collars: 2"/50mm, 4"/100mm
- Carbide measuring faces
- Pipe combined frame for light weight and high rigidity

Inch

Code No.	Range	Accuracy	Anvils	Standards
111-48-1	40-48"	±.00080"	1pcs	2pcs
111-56-1	48-56"	±.00090"	1pcs	2pcs
111-64-1	56-64"	±.00110"	1pcs	2pcs
111-72-1	64-72"	±.00120"	1pcs	2pcs
111-80-1	72-80"	±.00130"	1pcs	2pcs
111-88-1	80-88"	±.00150"	1pcs	2pcs

Metric

Code No.	Range	Accuracy	Anvils	Standards
111-48-0	1000-1200mm	0.020mm	1pcs	2pcs
111-56-0	1200-1400mm	0.024mm	1pcs	2pcs
111-64-0	1400-1600mm	0.028mm	1pcs	2pcs
111-72-0	1600-1800mm	0.031mm	1pcs	2pcs
111-80-0	1800-2000mm	0.034mm	1pcs	2pcs
111-88-0	2000-2200mm	0.040mm	1pcs	2pcs

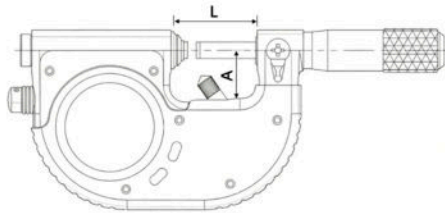


IP54 Digital Indicating Micrometers

With Bluetooth and SPC data output

153 Series

NEW



Features

- Adopts absolute grating encoding technology to ensure stable and reliable measurement data; direct reading available without homing.
- Ultra-high resolution: 0.0001mm / .000005", 0.0002mm / .00001"
- Supports both digital and analog pointer readings
- Button function: On/Off, Zero setting, mm/inch, Tolerance, Display setting, Bluetooth, Signal mode setting, Data output
- Built-in Bluetooth transmission and SPC data output support enable automatic collection and statistical analysis of measurement data.
- Enables high precision and fast batch measurement, greatly improving inspection efficiency.
- IP54 protection grade, dustproof and splashproof, suitable for harsh workshop working conditions.
- Equipped with 800mAh high capacity rechargeable lithium battery for long battery life, ideal for long-duration batch inspection.
- Measuring faces made of cemented carbide, featuring wear and corrosion resistance to sustain long-term accuracy and service life.

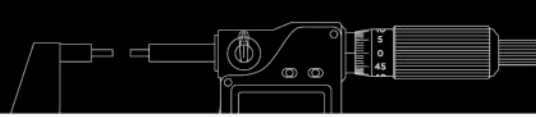


Inch				Dimensions					
Code No	Micrometer Head			Digital Indicator			Repeatability	L	A
	Range	Graduation	Accuracy	Range	Resolution	Accuracy			
153-01-1	0-1"	.0001"	±.00015"	±.002"	.000005"	±.00004"	.00001"	1.398"	.591"
153-02-1	1-2"	.0001"	±.00015"	±.002"	.000005"	±.00004"	.00001"	2.382"	.984"
153-03-1	2-3"	.0001"	±.00015"	±.002"	.000005"	±.00004"	.00001"	3.386"	1.476"
153-04-1	3-4"	.0001"	±.00015"	±.002"	.000005"	±.00004"	.00001"	4.370"	1.969"
153-01-3	0-1"	.0001"	±.00015"	±.002"	.00001"	±.00004"	.00001"	1.398"	.591"
153-02-3	1-2"	.0001"	±.00015"	±.002"	.00001"	±.00004"	.00001"	2.382"	.984"
153-03-3	2-3"	.0001"	±.00015"	±.002"	.00001"	±.00004"	.00001"	3.386"	1.476"
153-04-3	3-4"	.0001"	±.00015"	±.002"	.00001"	±.00004"	.00001"	4.370"	1.969"

Metric				Dimensions					
Code No.	Micrometer Head			Digital Indicator			Repeatability	L	A
	Range	Graduation	Accuracy	Range	Resolution	Accuracy			
153-01-0	0-25mm	0.002mm	0.003mm	±0.04mm	0.0001mm	± 0.001mm	0.0003mm	35.5mm	15mm
153-02-0	25-50mm	0.002mm	0.003mm	±0.04mm	0.0001mm	± 0.001mm	0.0003mm	60.5mm	25mm
153-03-0	50-75mm	0.002mm	0.003mm	±0.04mm	0.0001mm	± 0.001mm	0.0003mm	86mm	37.5mm
153-04-0	75-100mm	0.002mm	0.003mm	±0.04mm	0.0001mm	± 0.001mm	0.0003mm	111mm	50mm
153-01-2	0-25mm	0.002mm	0.003mm	±0.04mm	0.0002mm	± 0.001mm	0.0003mm	35.5mm	15mm
153-02-2	25-50mm	0.002mm	0.003mm	±0.04mm	0.0002mm	± 0.001mm	0.0003mm	60.5mm	25mm
153-03-2	50-75mm	0.002mm	0.003mm	±0.04mm	0.0002mm	± 0.001mm	0.0003mm	86mm	37.5mm
153-04-2	75-100mm	0.002mm	0.003mm	±0.04mm	0.0002mm	± 0.001mm	0.0003mm	111mm	50mm

Data output				
Data output with bluetooth	Transmission distance is 10m	Keyboard format	Data can be transmitted to Excel, Word, txt, etc.	Single transmission
Data output with USB cable	Cable length 1.8m	Keyboard format	Data can be transmitted to Excel, Word, txt, etc.	Single transmission





IP54 Digital Indicating Micrometers

Without data output

153 Series

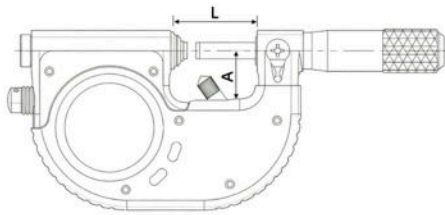
NEW



Analog Display Interface



Digital Display Interface



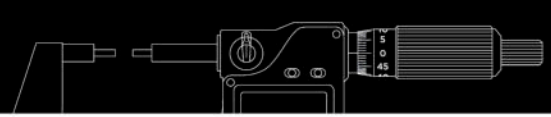
Features

- Adopts absolute grating encoding technology to ensure stable and reliable measurement data; direct reading available without homing.
- Ultra-high resolution: 0.0002mm / .00001", 0.0005mm / .00002"
- Supports both digital and analog pointer readings
- Button function: On/Off, Zero setting, mm/inch, Tolerance, Display setting
- Enables high-precision and fast batch measurement, greatly improving inspection efficiency.
- IP54 protection grade, dustproof and splashproof, suitable for harsh workshop working conditions.
- Equipped with 800mAh high-capacity rechargeable lithium battery for long battery life, ideal for long-duration batch inspection.
- Measuring faces made of cemented carbide, featuring wear and corrosion resistance to sustain long-term accuracy and service life.



Inch							Dimensions		
Code No.	Micrometer Head			Digital Indicator			Repeatability	L	A
	Range	Graduation	Accuracy	Range	Resolution	Accuracy			
153-01-5	0-1"	.0001"	±.00015"	±.002"	.00001"	±.00004"	.00001"	1.398"	.591"
153-02-5	1-2"	.0001"	±.00015"	±.002"	.00001"	±.00004"	.00001"	2.382"	.984"
153-03-5	2-3"	.0001"	±.00015"	±.002"	.00001"	±.00004"	.00001"	3.386"	1.476"
153-04-5	3-4"	.0001"	±.00015"	±.002"	.00001"	±.00004"	.00001"	4.370"	1.969"
153-01-7	0-1"	.0001"	±.00015"	±.002"	.00002"	±.00004"	.00001"	1.398"	.591"
153-02-7	1-2"	.0001"	±.00015"	±.002"	.00002"	±.00004"	.00001"	2.382"	.984"
153-03-7	2-3"	.0001"	±.00015"	±.002"	.00002"	±.00004"	.00001"	3.386"	1.476"
153-04-7	3-4"	.0001"	±.00015"	±.002"	.00002"	±.00004"	.00001"	4.370"	1.969"

Metric							Dimensions		
Code No.	Micrometer Head			Digital Indicator			Repeatability	L	A
	Range	Graduation	Accuracy	Range	Resolution	Accuracy			
153-01-4	0-25mm	0.002mm	0.003mm	±0.04mm	0.0002mm	± 0.001mm	0.0003mm	35.5mm	15mm
153-02-4	25-50mm	0.002mm	0.003mm	±0.04mm	0.0002mm	± 0.001mm	0.0003mm	60.5mm	25mm
153-03-4	50-75mm	0.002mm	0.003mm	±0.04mm	0.0002mm	± 0.001mm	0.0003mm	86mm	37.5mm
153-04-4	75-100mm	0.002mm	0.003mm	±0.04mm	0.0002mm	± 0.001mm	0.0003mm	111mm	50mm
153-01-6	0-25mm	0.002mm	0.003mm	±0.04mm	0.0005mm	± 0.001mm	0.0003mm	35.5mm	15mm
153-02-6	25-50mm	0.002mm	0.003mm	±0.04mm	0.0005mm	± 0.001mm	0.0003mm	60.5mm	25mm
153-03-6	50-75mm	0.002mm	0.003mm	±0.04mm	0.0005mm	± 0.001mm	0.0003mm	86mm	37.5mm
153-04-6	75-100mm	0.002mm	0.003mm	±0.04mm	0.0005mm	± 0.001mm	0.0003mm	111mm	50mm

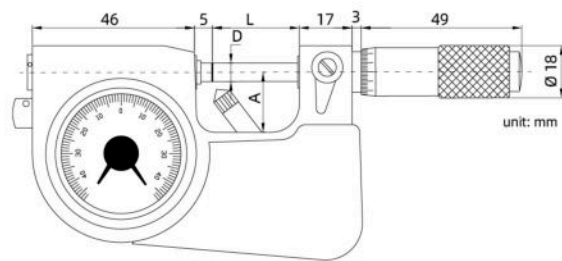


Indicating Micrometers

152 Series



152-01-0

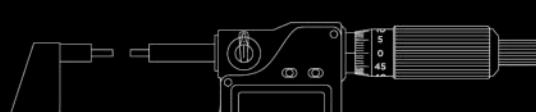


FEATURES

- Graduation:
Indicator: .00005"/0.001mm
Scale: .0001"/0.002mm
- Indicator range: ± 0.04 mm
- Retractable anvil with an indicator for precision measurement of mass-produced parts
- Carbide tipped measuring faces
- Setting standards are included (except 0-25mm/0-1")

Inch			Dimensions		
Code No.	Range	Accuracy	L	A	D
152-01-1	0-1"	$\pm 0.00010"$	1.122"	0.748"	$\emptyset .256"$
152-02-1	1-2"	$\pm 0.00010"$	2.106"	1.181"	$\emptyset .256"$
152-03-1	2-3"	$\pm 0.00010"$	3.091"	1.772"	$\emptyset .256"$
152-04-1	3-4"	$\pm 0.00015"$	4.075"	2.244"	$\emptyset .256"$

Metric			Dimensions		
Code No.	Range	Accuracy	L	A	D
152-01-0	0-25mm	0.002mm	28.5mm	19mm	$\emptyset 6.5$ mm
152-02-0	25-50mm	0.002mm	53.5mm	30mm	$\emptyset 6.5$ mm
152-03-0	50-75mm	0.003mm	78.5mm	45mm	$\emptyset 6.5$ mm
152-04-0	75-100mm	0.003mm	103.5mm	57mm	$\emptyset 6.5$ mm

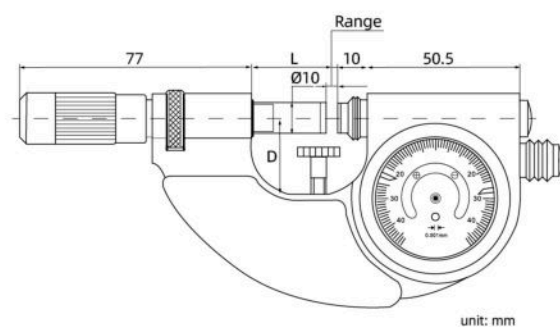


Dial Snap Gauges

152 Series



152-01-4

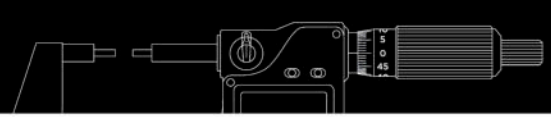


FEATURES

- Dial indication graduation: .00005"/0.001mm
- Dial range: $\pm 0.015"/\pm 0.04\text{mm}$
- Carbide tipped measuring faces, spindle diameter $\varnothing 10\text{mm}$
- Direct GO/NG judgment
- Big size indicator, easy to be read
- Measuring force 5-10N
- Setting standards are included (except 0-25mm/0-1")
- Protection level IP54

Inch			Dimensions	
Code No.	Range	Accuracy	D	L
152-01-5	0-1"	$\pm 0.00005"$	.984"	1.122"
152-02-5	1-2"	$\pm 0.00005"$	1.378"	2.106"
152-03-5	2-3"	$\pm 0.00005"$	1.870"	3.090"
152-04-5	3-4"	$\pm 0.00005"$	2.362"	4.075"

Metric			Dimensions	
Code No.	Range	Accuracy	D	L
152-01-4	0-25mm	0.001mm	25mm	28.5mm
152-02-4	25-50mm	0.001mm	35mm	53.5mm
152-03-4	50-75mm	0.001mm	47.5mm	78.5mm
152-04-4	75-100mm	0.001mm	60mm	103.5mm



Digital Blade Micrometers

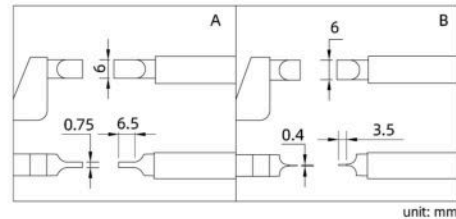
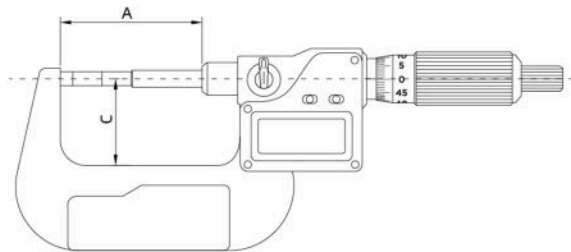
117 Series



117-01-0



117-01-1



unit: mm

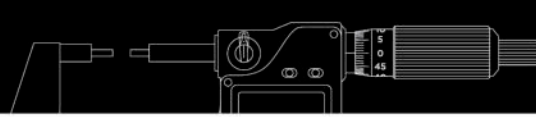
FEATURES

- Resolution:
Digital reading: .00005"/0.001mm
- For measuring the groove diameter of shafts, keyways, and other hard to reach portions
- Non-rotating spindle
- Button function: On/Off, Set, ABS/INC, mm/inch
- Carbide tipped measuring faces
- Actual absolute measuring position will be displayed when turn on the tools
- Auto-Off to maximize battery life
- Setting standards are included (except 0-25mm/0-1")
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5



Anvil Type A	Anvil Type B	Inch	Dimensions		
Code No.	Code No.	Range	Accuracy	A	C
117-01-1	117-01-3	0-1"	±.00010"	2.245"	1.260"
117-02-1	117-02-3	1-2"	±.00010"	3.228"	1.752"
117-03-1	117-03-3	2-3"	±.00010"	4.213"	2.244"
117-04-1	117-04-3	3-4"	±.00015"	5.221"	2.736"
117-05-1	117-05-3	4-5"	±.00015"	6.221"	3.228"
117-06-1	117-06-3	5-6"	±.00015"	7.221"	3.72"

Anvil Type A	Anvil Type B	Metric	Dimensions		
Code No.	Code No.	Range	Accuracy	A	C
117-01-0	117-01-2	0-25mm	±0.002mm	57mm	32mm
117-02-0	117-02-2	25-50mm	±0.002mm	82mm	44.5mm
117-03-0	117-03-2	50-75mm	±0.003mm	107mm	57mm
117-04-0	117-04-2	75-100mm	±0.003mm	132.6mm	69.5mm
117-05-0	117-05-2	100-125mm	±0.003mm	158mm	82mm
117-06-0	117-06-2	125-150mm	±0.003mm	183.4mm	94.5mm



Blade Micrometers

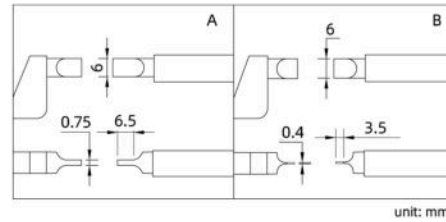
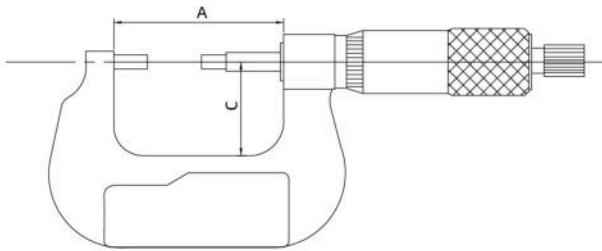
112 Series



112-01-0

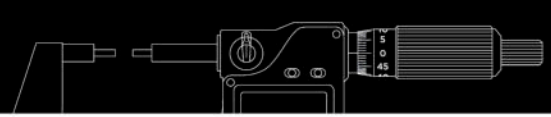
FEATURES

- Graduation: .0001"/0.01mm
- Ratchet stop
- For groove diameter of shafts, keyways, and other hard to reach portions, etc. measurements
- Non-rotating spindle
- Carbide tipped measuring faces
- Setting standards are included (except 0-25mm/0-1")



Anvil Type A	Anvil Type B	Inch	Dimensions		
Code No.	Code No.	Range	Accuracy	A	C
112-01-1	112-01-3	0-1"	±.00010"	2.245"	1.260"
112-02-1	112-02-3	1-2"	±.00010"	3.228"	1.752"
112-03-1	112-03-3	2-3"	±.00010"	4.213"	2.244"
112-04-1	112-04-3	3-4"	±.00015"	5.221"	2.736"
112-05-1	112-05-3	4-5"	±.00015"	6.221"	3.228"
112-06-1	112-06-3	5-6"	±.00015"	7.221"	3.72"

Anvil Type A	Anvil Type B	Metric	Dimensions		
Code No.	Code No.	Range	Accuracy	A	C
112-01-0	112-01-2	0-25mm	0.004mm	57mm	32mm
112-02-0	112-02-2	25-50mm	0.004mm	82mm	44.5mm
112-03-0	112-03-2	50-75mm	0.005mm	107mm	57mm
112-04-0	112-04-2	75-100mm	0.005mm	132.6mm	69.5mm
112-05-0	112-05-2	100-125mm	0.006mm	158mm	82mm
112-06-0	112-06-2	125-150mm	0.006mm	183.4mm	94.5mm



Digital Point Micrometers

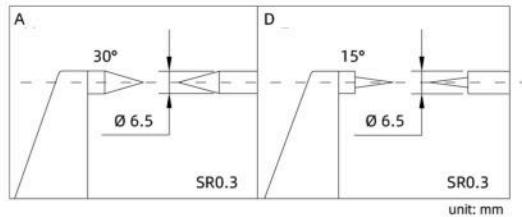
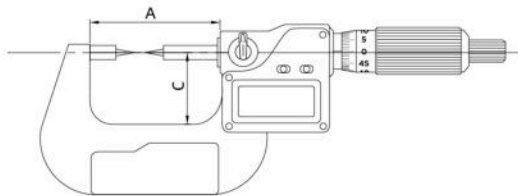
126 Series



126-02-0



126-02-1



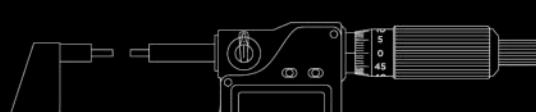
FEATURES

- Resolution:
Digital reading: .00005"/0.001mm
- 15 degree and 30 degree measuring points are available
- For web thickness of drills, small grooves, and other hard to reach dimensions, etc. measurements
- Button function: On/Off, Set, ABS/INC, mm/inch
- Carbide tipped measuring faces
- Actual absolute measuring position will be displayed when turn on the tools
- Auto-Off to maximize battery life
- Setting standards are included (except 0-25mm/0-1")
- Protection level IP65
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5



Anvil Type D 15°		Anvil Type A 30°		Dimensions	
Code No.	Code No.	Range	Accuracy	A	C
126-01-1	126-01-3	0-1"	±.00010"	2.245"	1.260"
126-02-1	126-02-3	1-2"	±.00010"	3.228"	1.752"
126-03-1	126-03-3	2-3"	±.00010"	4.213"	2.244"
126-04-1	126-04-3	3-4"	±.00015"	5.221"	2.736"

Anvil Type D 15°		Anvil Type A 30°		Dimensions	
Code No.	Code No.	Range	Accuracy	A	C
126-01-0	126-01-2	0-25mm	±0.002mm	57mm	32mm
126-02-0	126-02-2	25-50mm	±0.002mm	82mm	44.5mm
126-03-0	126-03-2	50-75mm	±0.003mm	107mm	57mm
126-04-0	126-04-2	75-100mm	±0.003mm	132.6mm	69.5mm



Point Micrometers

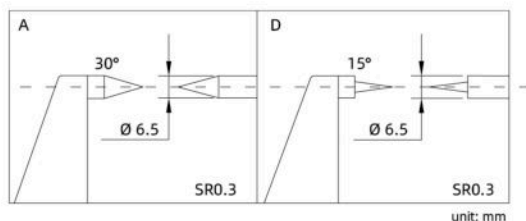
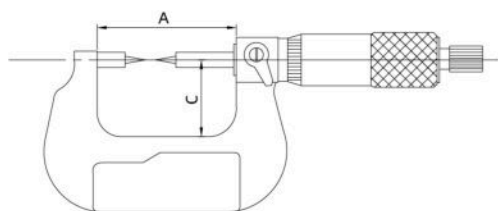
122 Series



122-01-1

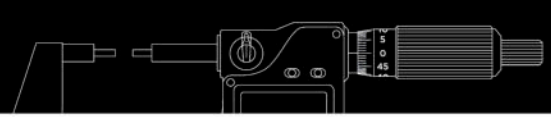
FEATURES

- Graduation: .001"/0.01mm
- Ratchet stop
- 15 degree and 30 degree measuring points are available
- For web thickness of drills, small grooves, and other hard to reach dimensions, etc. measurements
- Carbide tipped measuring faces
- Setting standards are included (except 0-25mm/0-1")



Anvil Type D 15°		Anvil Type A 30°		Dimensions	
Code No.	Code No.	Range	Accuracy	A	C
122-01-1	122-01-3	0-1"	±.00010"	2.245"	1.260"
122-02-1	122-02-3	1-2"	±.00010"	3.228"	1.752"
122-03-1	122-03-3	2-3"	±.00010"	4.213"	2.244"
122-04-1	122-04-3	3-4"	±.00015"	5.221"	2.736"

Anvil Type D 15°		Anvil Type A 30°		Dimensions	
Code No.	Code No.	Range	Accuracy	A	C
122-01-0	122-01-2	0-25mm	0.004mm	57mm	32mm
122-02-0	122-02-2	25-50mm	0.004mm	82mm	44.5mm
122-03-0	122-03-2	50-75mm	0.005mm	107mm	57mm
122-04-0	122-04-2	75-100mm	0.005mm	132.6mm	69.5mm



Digital Single Point Micrometers

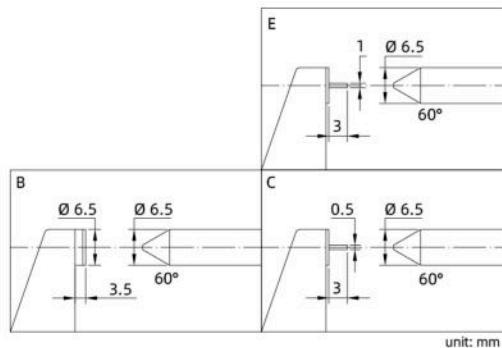
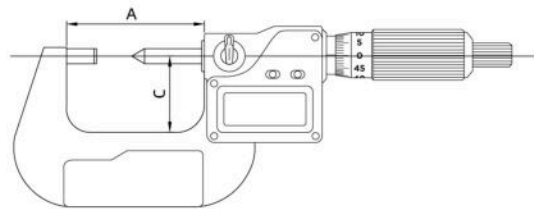
135 Series



135-01-0



135-01-0



unit: mm

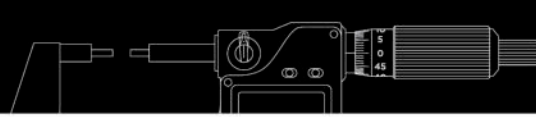
FEATURES

- Resolution:
Digital reading: .00005"/0.001mm
- Button function: On/Off, Set, ABS/INC, mm/inch
- Carbide tipped measuring faces
- Actual absolute measuring position will be displayed when turn on the tools
- Auto-Off to maximize battery life
- Setting standards are included (except 0-25mm/0-1")
- Protection level IP65
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5



Anvil Type B	Anvil Type C	Anvil Type E	Inch	Dimensions		
Code No.	Code No.	Code No.	Range	Accuracy	A	C
135-01-1	135-01-3	135-01-5	0-1"	±.00010"	34.4mm	24mm
135-02-1	-	-	1-2"	±.00010"	59.4mm	32mm
135-03-1	-	-	2-3"	±.00010"	84.8mm	44.5mm
135-04-1	-	-	3-4"	±.00015"	110.2mm	57mm

Anvil Type B	Anvil Type C	Anvil Type E	Metric	Dimensions		
Code No.	Code No.	Code No.	Range	Accuracy	A	C
135-01-0	135-01-2	135-01-4	0-25mm	±0.002mm	34.4mm	24mm
135-02-0	-	-	25-50mm	±0.002mm	59.4mm	32mm
135-03-0	-	-	50-75mm	±0.003mm	84.8mm	44.5mm
135-04-0	-	-	75-100mm	±0.003mm	110.2mm	57mm



Single Point Micrometers

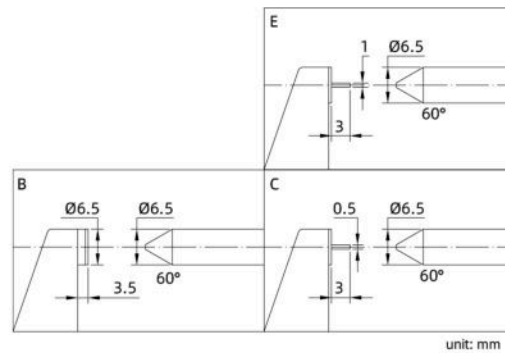
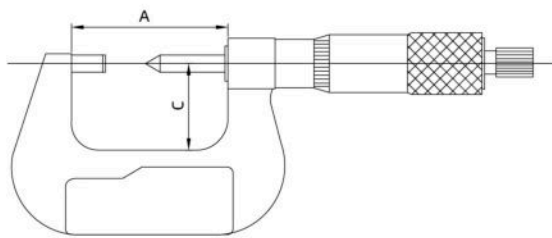
131 Series



131-01-3

FEATURES

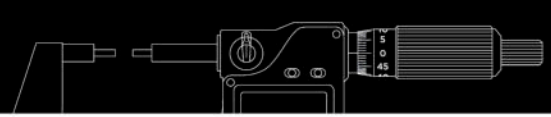
- Graduation: .0001"/0.01mm
- Ratchet stop
- For height of crimp contacts measurement
- Carbide tipped measuring faces
- Setting standards are included (except 0-25mm/0-1")



unit: mm

Anvil Type B	Anvil Type C	Anvil Type E	Inch		Dimensions	
Code No.	Code No.	Code No.	Range	Accuracy	A	C
131-01-1	131-01-3	131-01-5	0-1"	±.00010"	34.4mm	24mm
131-02-1	-	-	1-2"	±.00010"	59.4mm	32mm
131-03-1	-	-	2-3"	±.00010"	84.8mm	44.5mm
131-04-1	-	-	3-4"	±.00015"	110.2mm	57mm

Anvil Type B	Anvil Type C	Anvil Type E	Metric		Dimensions	
Code No.	Code No.	Code No.	Range	Accuracy	A	C
131-01-0	131-01-2	131-01-4	0-25mm	0.004mm	34.4mm	24mm
131-02-0	-	-	25-50mm	0.004mm	59.4mm	32mm
131-03-0	-	-	50-75mm	0.005mm	84.8mm	44.5mm
131-04-0	-	-	75-100mm	0.005mm	110.2mm	57mm



Digital Spline Micrometers

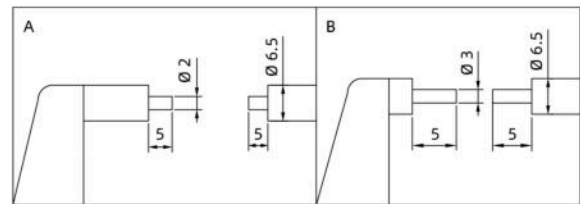
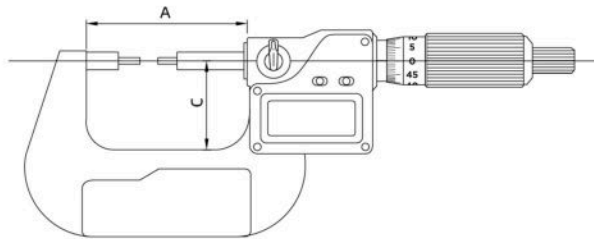
118 Series



118-01-0



118-01-0



unit: mm

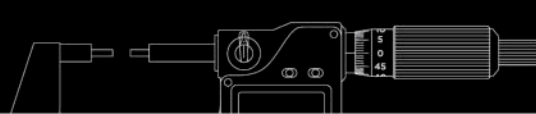
FEATURES

- Resolution:
Digital reading: .00005"/0.001mm
- For spline shafts, slots and keyways, etc. measurements
- Button function: On/Off, Set, ABS/INC, mm/inch
- Carbide tipped measuring faces
- Actual absolute measuring position will be displayed when turn on the tools
- Auto-Off to maximize battery life
- Setting standards are included (except 0-25mm/0-1")
- Protection level IP65
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5



Anvil Type A (Ø2*5)	Anvil Type B (Ø3*10)	Inch	Dimensions		
Code No.	Code No.	Range	Accuracy	A	C
118-01-1	118-01-3	0-1"	±.00010"	2.245"	1.260"
118-02-1	118-02-3	1-2"	±.00010"	3.228"	1.752"
118-03-1	118-03-3	2-3"	±.00010"	4.213"	2.244"
118-04-1	118-04-3	3-4"	±.00015"	5.221"	2.736"
118-05-1	118-05-3	4-5"	±.00015"	6.221"	3.228"
118-06-1	118-06-3	5-6"	±.00015"	7.221"	3.72"

Anvil Type A (Ø2*5)	Anvil Type B (Ø3*10)	Metric	Dimensions		
Code No.	Code No.	Range	Accuracy	A	C
118-01-0	118-01-2	0-25mm	±0.002mm	57mm	32mm
118-02-0	118-02-2	25-50mm	±0.002mm	82mm	44.5mm
118-03-0	118-03-2	50-75mm	±0.003mm	107mm	57mm
118-04-0	118-04-2	75-100mm	±0.003mm	132.6mm	69.5mm
118-05-0	118-05-2	100-125mm	±0.003mm	158mm	82mm
118-06-0	118-06-2	125-150mm	±0.003mm	183.4mm	94.5mm



Spline Micrometers

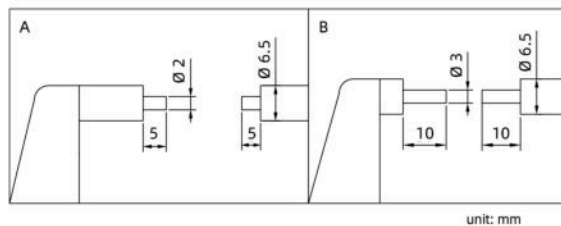
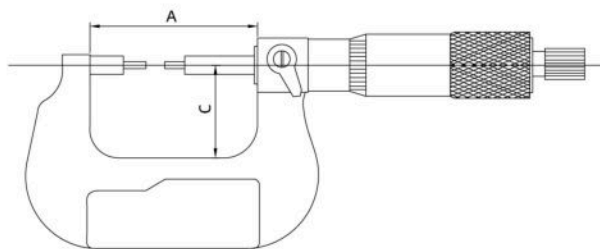
118 Series



118-61-1

FEATURES

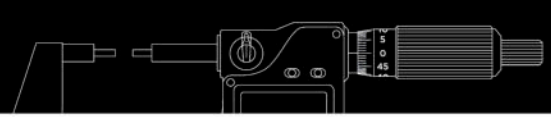
- Graduation: .0001"/0.01mm
- Ratchet stop
- For spline shafts, slots and keyways. etc. measurements
- Carbide tipped measuring faces
- Anvils A and Anvils B are optional
- Setting standards are included (except 0-25mm/0-1")



unit: mm

Anvil Type A (Ø2*5)	Anvil Type B (Ø3*10)	Inch	Dimensions		
Code No.	Code No.	Range	Accuracy	A	C
118-61-1	118-61-3	0-1"	±.00010"	2.245"	1.260"
118-62-1	118-62-3	1-2"	±.00010"	3.228"	1.752"
118-63-1	118-63-3	2-3"	±.00010"	4.213"	2.244"
118-64-1	118-64-3	3-4"	±.00015"	5.221"	2.736"
118-65-1	118-65-3	4-5"	±.00015"	6.221"	3.228"
118-66-1	118-66-3	5-6"	±.00015"	7.221"	3.72"

Anvil Type A (Ø2*5)	Anvil Type B (Ø3*10)	Metric	Dimensions		
Code No.	Code No.	Range	Accuracy	A	C
118-61-0	118-61-2	0-25mm	0.004mm	57mm	32mm
118-62-0	118-62-2	25-50mm	0.004mm	82mm	44.5mm
118-63-0	118-63-2	50-75mm	0.005mm	107mm	57mm
118-64-0	118-64-2	75-100mm	0.005mm	132.6mm	69.5mm
118-65-0	118-65-2	100-125mm	0.006mm	158mm	82mm
118-66-0	118-66-2	125-150mm	0.006mm	183.4mm	94.5mm



Digital Tube Micrometers

147 Series



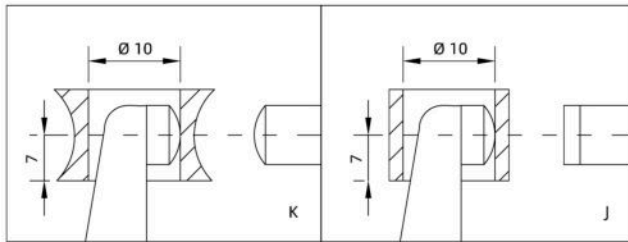
147-01-0



147-01-1

FEATURES

- Resolution:
Digital reading: .00005"/0.001mm
- For various tubes wall thickness measurement
- Anvils J and Anvils K are optional
- Button function: On/Off, Set, ABS/INC, mm/inch
- Carbide tipped measuring faces
- Actual absolute measuring position will be displayed when turn on the tools
- Auto-Off to maximize battery life
- Setting standards are included (except 0-25mm/0-1")
- Protection level IP65
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5

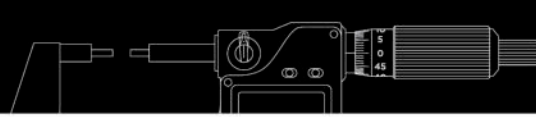


* Min dimension of measured diameters

unit: mm

Anvil Type J	Anvil Type K	Inch	
Code No.	Code No.	Range	Accuracy
147-01-1	147-01-3	0-1"	±.00010"
147-02-1	147-02-3	1-2"	±.00010"
147-03-1	147-03-3	2-3"	±.00010"
147-04-1	147-04-3	3-4"	±.00015"

Anvil Type J	Anvil Type K	Metric	
Code No.	Code No.	Range	Accuracy
147-01-0	147-01-2	0-25mm	±0.002mm
147-02-0	147-02-2	25-50mm	±0.002mm
147-03-0	147-03-2	50-75mm	±0.003mm
147-04-0	147-04-2	75-100mm	±0.003mm



Tube Micrometers

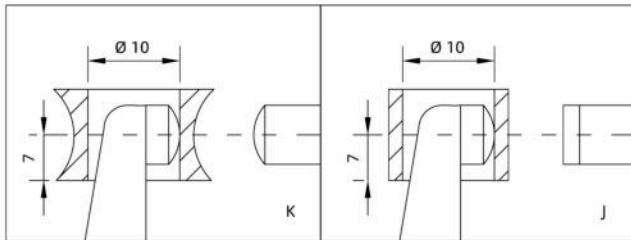
143 Series



143-01-3

FEATURES

- Graduation: .0001"/0.01mm
- For various tubes wall thickness measurement
- Carbide tipped measuring faces
- Setting standards are included (except 0-25mm/0-1")

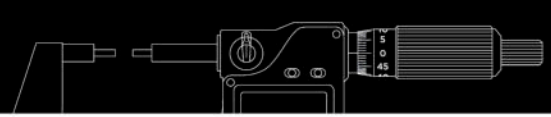


* Min dimension of measured diameter

unit: mm

Anvil Type J	Anvil Type K	Inch	
Code No.	Code No.	Range	Accuracy
143-01-1	143-01-3	0-1"	±.00010"
143-02-1	143-02-3	1-2"	±.00010"
143-03-1	143-03-3	2-3"	±.00010"
143-04-1	143-04-3	3-4"	±.00015"

Anvil Type J	Anvil Type K	Metric	
Code No.	Code No.	Range	Accuracy
143-01-0	143-01-2	0-25mm	0.004mm
143-02-0	143-02-2	25-50mm	0.004mm
143-03-0	143-03-2	50-75mm	0.005mm
143-04-0	143-04-2	75-100mm	0.005mm



Digital Tube Micrometers

113 Series



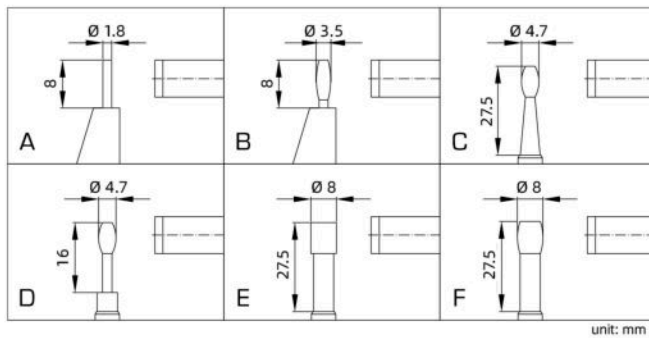
113-01-0



113-01-1

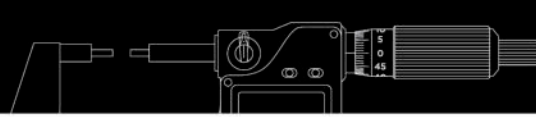
FEATURES

- Resolution:
Digital reading: .00005"/0.001mm
- For various tubes wall thickness measurement
- Six Anvils are optional
- Button function: On/Off, Set, ABS/INC, mm/inch
- Carbide tipped measuring faces
- Actual absolute measuring position will be displayed when turn on the tools
- Auto-Off to maximize battery life
- Setting standards are included (except 0-25mm/0-1")
- Protection level IP65
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5



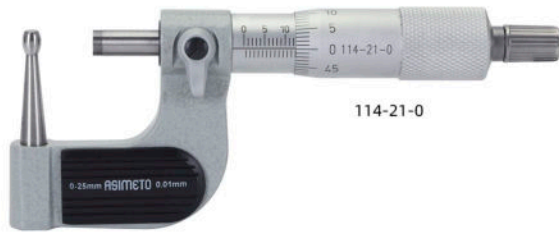
Anvil Type A	Anvil Type B	Anvil Type C	Anvil Type D	Anvil Type E	Anvil Type F	Inch	
Code No.	Code No.	Code No.	Code No.	Code No.	Code No.	Range	Accuracy
113-01-1	113-11-1	113-21-1	113-31-1	113-41-1	113-51-1	0-1"	±0.0010"
113-02-1	113-12-1	113-22-1	113-32-1	113-42-1	113-52-1	1-2"	±0.0010"

Anvil Type A	Anvil Type B	Anvil Type C	Anvil Type D	Anvil Type E	Anvil Type F	Metric	
Code No.	Code No.	Code No.	Code No.	Code No.	Code No.	Range	Accuracy
113-01-0	113-11-0	113-21-0	113-31-0	113-41-0	113-51-0	0-25mm	±0.002mm
113-02-0	113-12-0	113-22-0	113-32-0	113-42-0	113-52-0	25-50mm	±0.002mm



Tube Micrometers

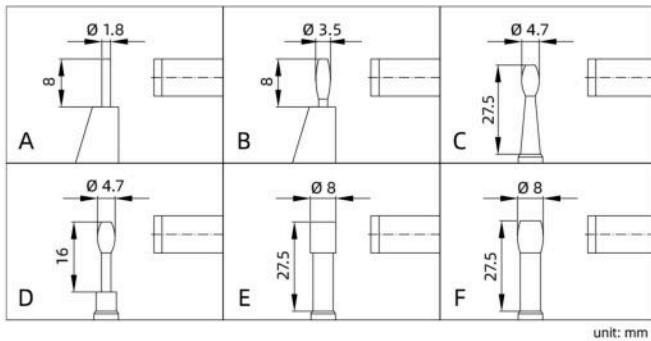
114 Series



114-21-0

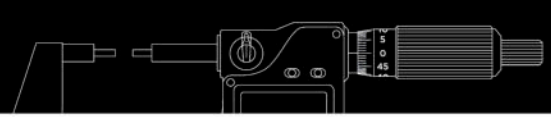
FEATURES

- Graduation: .0001"/0.01mm
- For various tubes wall thickness measurement
- Carbide tipped measuring faces
- Six anvils are optional
- Setting standards are included (except 0-25mm/0-1")



Anvil Type A	Anvil Type B	Anvil Type C	Anvil Type D	Anvil Type E	Anvil Type F	Inch	
Code No.	Code No.	Code No.	Code No.	Code No.	Code No.	Range	Accuracy
114-01-1	114-11-1	114-21-1	114-31-1	114-41-1	114-51-1	0-1"	±.00010"
114-02-1	114-12-1	114-22-1	114-32-1	114-42-1	114-52-1	1-2"	±.00010"

Anvil Type A	Anvil Type B	Anvil Type C	Anvil Type D	Anvil Type E	Anvil Type F	Metric	
Code No.	Code No.	Code No.	Code No.	Code No.	Code No.	Range	Accuracy
114-01-0	114-11-0	114-21-0	114-31-0	114-41-0	114-51-0	0-25mm	0.004mm
114-02-0	114-12-0	114-22-0	114-32-0	114-42-0	114-52-0	25-50mm	0.004mm

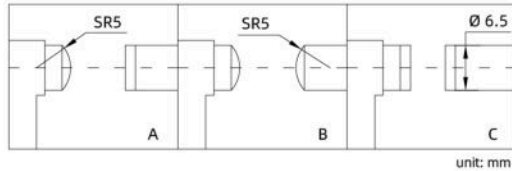
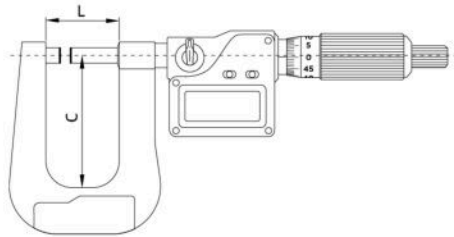


Digital Deep Throat Micrometers

157 Series



157-51-0



unit: mm

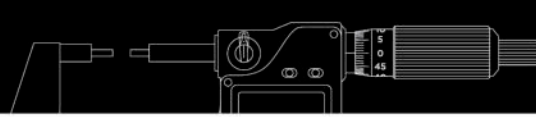
FEATURES

- Resolution:
Digital reading: .00005"/0.001mm
- Button function: On/Off, Set, ABS/INC, mm/inch
- Carbide tipped measuring faces
- Actual absolute measuring position will be displayed when turn on the tools
- Auto-Off to maximize battery life
- Setting standards are included (except 0-25mm/0-1")
- Protection level IP65
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5



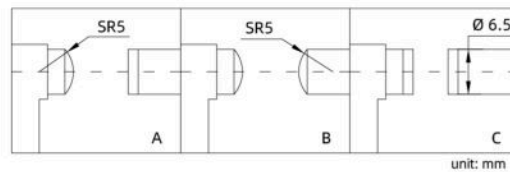
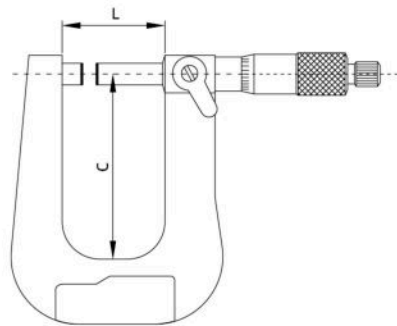
Anvil Type A	Anvil Type B	Anvil Type C	Inch				Dimensions
Code No.	Code No.	Code No.	Throat Depth	Range	Accuracy	L	C
157-01-1	157-31-1	157-51-1	2"	0-1"	±.0002"	1.260"	2.165"
157-02-1	157-32-1	157-52-1		1-2"	±.0002"	2.244"	2.165"
157-01-3	157-31-3	157-51-3	4"	0-1"	±.0002"	1.260"	4.134"
157-02-3	157-32-3	157-52-3		1-2"	±.0002"	2.244"	4.134"
157-01-5	157-31-5	157-51-5	6"	0-1"	±.0003"	1.260"	6.102"
157-02-5	157-32-5	157-52-5		1-2"	±.0003"	2.244"	6.102"
157-01-7	157-31-7	-	12"	0-1"	±.0003"	1.260"	12.205"
157-02-7	157-32-7	-		1-2"	±.0003"	2.244"	12.205"

Anvil Type A	Anvil Type B	Anvil Type C	Metric			Dimensions	
Code No.	Code No.	Code No.	Throat Depth	Range	Accuracy	L	C
157-01-0	157-31-0	157-51-0	50mm	0-25mm	±0.002mm	32mm	55mm
157-02-0	157-32-0	157-52-0		25-50mm	±0.002mm	57mm	55mm
157-01-2	157-31-2	157-51-2	100mm	0-25mm	±0.003mm	32mm	105mm
157-02-2	157-32-2	157-52-2		25-50mm	±0.003mm	57mm	105mm
157-01-4	157-31-4	157-51-4	150mm	0-25mm	±0.003mm	32mm	155mm
157-02-4	157-32-4	157-52-4		25-50mm	±0.003mm	57mm	155mm
157-01-6	157-31-6	-	300mm	0-25mm	±0.004mm	32mm	310mm
157-02-6	157-32-6	-		25-50mm	±0.004mm	57mm	310mm



Deep Throat Micrometers

150 Series

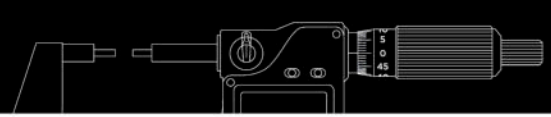


FEATURES

- Graduation: .0001"/0.01mm
- For sheet metal paper and sheet plastic thickness measurements
- Carbide tipped measuring faces
- Setting standards are included (except 0-25mm/0-1")

Anvil Type A	Anvil Type B	Anvil Type C					
Code No.	Code No.	Code No.	Throat Depth	Range	Accuracy	Dimensions	
150-01-1	150-31-1	150-51-1	2"	0-1"	±.0002"	1.260"	2.165"
150-02-1	150-32-1	150-52-1		1-2"	±.0002"	2.244"	2.165"
150-01-3	150-31-3	150-51-3	4"	0-1"	±.0002"	1.260"	4.134"
150-02-3	150-32-3	150-52-3		1-2"	±.0002"	2.244"	4.134"
150-01-5	150-31-5	150-51-5	6"	0-1"	±.0003"	1.260"	6.102"
150-02-5	150-32-5	150-52-5		1-2"	±.0003"	2.244"	6.102"
150-01-7	150-31-7	-	12"	0-1"	±.0003"	1.260"	12.205"
150-02-7	150-32-7	-		1-2"	±.0003"	2.244"	12.205"

Anvil Type A	Anvil Type B	Anvil Type C					
Code No.	Code No.	Code No.	Throat Depth	Range	Accuracy	Dimensions	
150-01-0	150-31-0	150-51-0	50mm	0-25mm	0.004mm	32mm	55mm
150-02-0	150-32-0	150-52-0		25-50mm	0.004mm	57mm	55mm
150-01-2	150-31-2	150-51-2	100mm	0-25mm	0.005mm	32mm	105mm
150-02-2	150-32-2	150-52-2		25-50mm	0.005mm	57mm	105mm
150-01-4	150-31-4	150-51-4	150mm	0-25mm	0.006mm	32mm	155mm
150-02-4	150-32-4	150-52-4		25-50mm	0.006mm	57mm	155mm
150-01-6	150-31-6	-	300mm	0-25mm	0.007mm	32mm	310mm
150-02-6	150-32-6	-		25-50mm	0.007mm	57mm	310mm



Digital Disc Micrometers

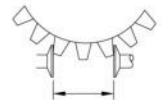
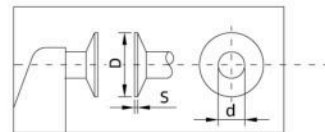
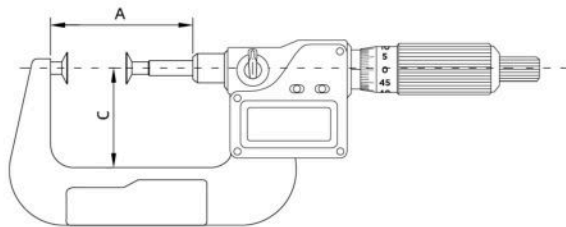
145 Series



145-02-0



145-01-0



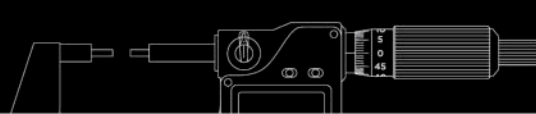
FEATURES

- Resolution:
Digital reading: .00005"/0.001mm
- For gears and paper thickness measurements
- Non-rotating spindle
- Button function: On/Off, Set, ABS/INC, mm/inch
- Carbide tipped measuring faces
- Actual absolute measuring position will be displayed when turn on the tools
- Auto-Off to maximize battery life
- Setting standards are included (except 0-25mm/0-1")
- Protection level IP65
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5



Inch		Dimensions					
Code No.	Range	Accuracy	A	C	D	S	d
145-01-1	0-1"	±.00010"	1.693"	1.260"	.787"	.028"	.315"
145-02-1	1-2"	±.00010"	2.677"	1.752"	.787"	.028"	.315"
145-03-1	2-3"	±.00010"	3.661"	2.244"	.787"	.028"	.315"
145-04-1	3-4"	±.00015"	4.665"	2.756"	.787"	.028"	.315"
145-05-1	4-5"	±.00015"	5.669"	3.228"	1.181"	.035"	.472"
145-06-1	5-6"	±.00015"	6.673"	3.720"	1.181"	.035"	.472"
145-07-1	6-7"	±.00020"	7.669"	4.213"	1.181"	.035"	.472"
145-08-1	7-8"	±.00020"	8.661"	4.724"	1.181"	.035"	.472"

Metric		Dimensions					
Code No.	Range	Accuracy	A	C	D	S	d
145-01-0	0-25mm	±0.002mm	43mm	32mm	20mm	0.7mm	8mm
145-02-0	25-50mm	±0.002mm	68mm	44.5mm	20mm	0.7mm	8mm
145-03-0	50-75mm	±0.003mm	93mm	57mm	20mm	0.7mm	8mm
145-04-0	75-100mm	±0.003mm	118.5mm	70mm	20mm	0.7mm	8mm
145-05-0	100-125mm	±0.003mm	144mm	82mm	30mm	0.9mm	12mm
145-06-0	125-150mm	±0.003mm	169.5mm	94.5mm	30mm	0.9mm	12mm
145-07-0	150-175mm	±0.003mm	194.8mm	107mm	30mm	0.9mm	12mm
145-08-0	175-200mm	±0.003mm	220mm	120mm	30mm	0.9mm	12mm



Disc Micrometers

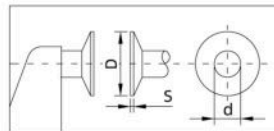
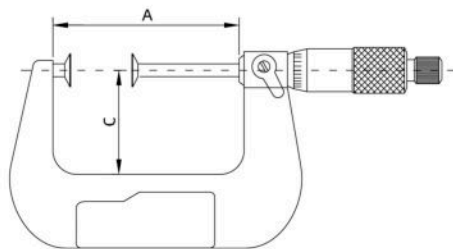
141 Series



141-03-1

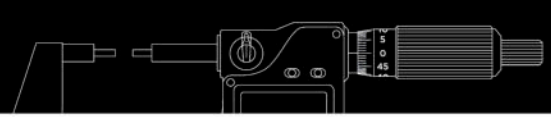
FEATURES

- Graduation: .0001"/0.01mm
- For gears and paper thickness measurements
- Rotating spindle and non-rotating spindle (optional)
- Setting standards are included (except 0-25mm/0-1")



Rotating Spindle	Non-rotating Spindle	Inch	Dimensions					
Code No.	Code No.	Range	Accuracy	A	C	D	S	d
141-01-1	141-01-3	0-1"	±.00010"	1.693"	1.260"	.787"	.028"	.315"
141-02-1	141-02-3	1-2"	±.00010"	2.677"	1.752"	.787"	.028"	.315"
141-03-1	141-03-3	2-3"	±.00010"	3.661"	2.244"	.787"	.028"	.315"
141-04-1	141-04-3	3-4"	±.00015"	4.665"	2.756"	.787"	.028"	.315"
141-05-1	141-05-3	4-5"	±.00015"	5.669"	3.228"	.181"	.035"	.472"
141-06-1	141-06-3	5-6"	±.00015"	6.673"	3.720"	.181"	.035"	.472"
141-07-1	141-07-3	6-7"	±.00020"	7.669"	4.213"	.181"	.035"	.472"
141-08-1	141-08-3	7-8"	±.00020"	8.661"	4.724"	.181"	.035"	.472"

Rotating Spindle	Non-rotating Spindle	Metric	Dimensions					
Code No.	Code No.	Range	Accuracy	A	C	D	S	d
141-01-0	141-01-2	0-25mm	0.004mm	43mm	32mm	20mm	0.7mm	8mm
141-02-0	141-02-2	25-50mm	0.004mm	68mm	44.5mm	20mm	0.7mm	8mm
141-03-0	141-03-2	50-75mm	0.005mm	93mm	57mm	20mm	0.7mm	8mm
141-04-0	141-04-2	75-100mm	0.005mm	118.5mm	70mm	20mm	0.7mm	8mm
141-05-0	141-05-2	100-125mm	0.006mm	144mm	82mm	30mm	0.9mm	12mm
141-06-0	141-06-2	125-150mm	0.006mm	169.5mm	94.5mm	30mm	0.9mm	12mm
141-07-0	141-07-2	150-175mm	0.007mm	194.8mm	107mm	30mm	0.9mm	12mm
141-08-0	141-08-2	175-200mm	0.007mm	220mm	120mm	30mm	0.9mm	12mm



Digital Jaw Type Micrometers

126 Series



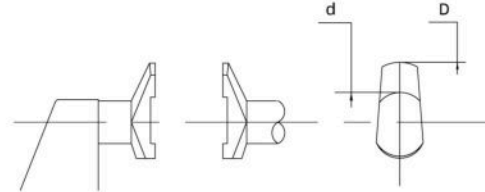
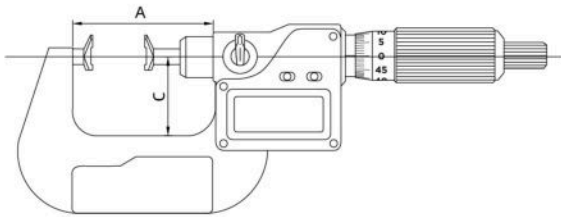
126-52-0



126-51-0

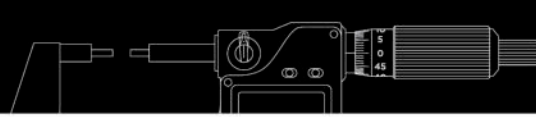
FEATURES

- Resolution:
Digital reading: .00005"/0.001mm
- For gears and paper thickness measurements
- Non-rotating spindle
- Jaw type measuring faces
- Button function: On/Off, Set, ABS/INC, mm/inch
- Carbide tipped measuring faces
- Actual absolute measuring position will be displayed when turn on the tools
- Auto-Off to maximize battery life
- Setting standards are included (except 0-25mm/0-1")
- Protection level IP65
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5



Inch			Dimensions			
Code No.	Range	Accuracy	A	C	D	d
126-51-1	0-1"	±.00010"	1.354"	.945"	R.394"	.315"
126-52-1	1-2"	±.00010"	2.339"	1.260"	R.394"	.315"
126-53-1	2-3"	±.00010"	3.339"	1.752"	R.394"	.315"
126-54-1	3-4"	±.00015"	4.339"	2.244"	R.394"	.315"
126-55-1	4-5"	±.00015"	5.417"	2.760"	R.591"	.472"
126-56-1	5-6"	±.00015"	6.417"	3.228"	R.591"	.472"
126-57-1	6-7"	±.00020"	7.417"	3.721"	R.591"	.472"
126-58-1	7-8"	±.00020"	8.417"	4.213"	R.591"	.472"

Metric			Dimensions			
Code No.	Range	Accuracy	A	C	D	d
126-51-0	0-25mm	±0.002mm	34.4mm	24mm	R10mm	Ø8mm
126-52-0	25-50mm	±0.002mm	59.4mm	32mm	R10mm	Ø8mm
126-53-0	50-75mm	±0.003mm	84.8mm	44.5mm	R10mm	Ø8mm
126-54-0	75-100mm	±0.003mm	110.2mm	57mm	R10mm	Ø8mm
126-55-0	100-125mm	±0.003mm	137.6mm	69.5mm	R15mm	Ø12mm
126-56-0	125-150mm	±0.003mm	163mm	82mm	R15mm	Ø12mm
126-57-0	150-175mm	±0.004mm	188.4mm	94.5mm	R15mm	Ø12mm
126-58-0	175-200mm	±0.004mm	213.8mm	107mm	R15mm	Ø12mm



Jaw Type Micrometers

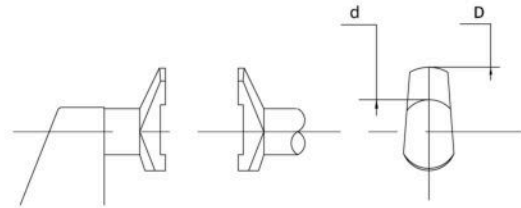
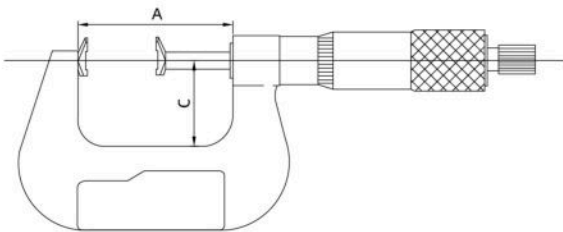
122 Series



122-51-1

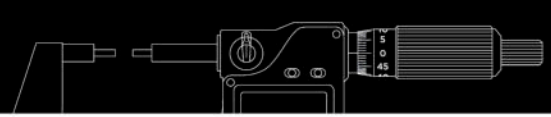
FEATURES

- Graduation: .0001"/0.01mm
- For gears and paper thickness measurements
- Non-rotating spindle
- Jaw type measuring faces
- Setting standards are included (except 0-25mm/0-1")



Inch			Dimensions			
Code No.	Range	Accuracy	A	C	D	d
122-51-1	0-1"	±.00010"	1.354"	.945"	R.394"	.315"
122-52-1	1-2"	±.00010"	2.339"	1.260"	R.394"	.315"
122-53-1	2-3"	±.00010"	3.339"	1.752"	R.394"	.315"
122-54-1	3-4"	±.00015"	4.339"	2.244"	R.394"	.315"
122-55-1	4-5"	±.00015"	5.417"	2.760"	R.591"	.472"
122-56-1	5-6"	±.00015"	6.417"	3.228"	R.591"	.472"
122-57-1	6-7"	±.00020"	7.417"	3.721"	R.591"	.472"
122-58-1	7-8"	±.00020"	8.417"	4.213"	R.591"	.472"

Metric			Dimensions			
Code No.	Range	Accuracy	A	C	D	d
122-51-0	0-25mm	0.004mm	34.4mm	24mm	R10mm	Ø8mm
122-52-0	25-50mm	0.004mm	59.4mm	32mm	R10mm	Ø8mm
122-53-0	50-75mm	0.005mm	84.8mm	44.5mm	R10mm	Ø8mm
122-54-0	75-100mm	0.005mm	110.2mm	57mm	R10mm	Ø8mm
122-55-0	100-125mm	0.006mm	137.6mm	69.5mm	R15mm	Ø12mm
122-56-0	125-150mm	0.006mm	163mm	82mm	R15mm	Ø12mm
122-57-0	150-175mm	0.007mm	188.4mm	94.5mm	R15mm	Ø12mm
122-58-0	175-200mm	0.007mm	213.8mm	107mm	R15mm	Ø12mm



Digital Disc Brake Micrometers

156 Series



FEATURES

- Resolution: .00005"/0.001mm
- For disc brake system grooves depth measurement
- Carbide measuring face with 60° point
- Button function: On/Off, Set, ABS/INC, mm/inch
- Carbide tipped measuring faces
- Actual absolute measuring position will be displayed when turn on the tools
- Auto-Off to maximize battery life
- Protection level IP65
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5

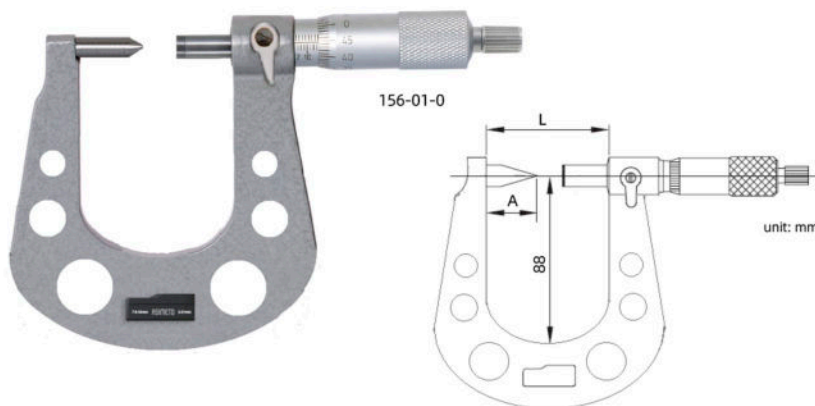


Inch				
Code No.	Range	Accuracy	L	A
156-01-7	.3-1.3"	±.0001"	2.54"	1.14"
156-02-7	1-2"	±.0001"	3.23"	1.14"

Metric				
Code No.	Range	Accuracy	L	A
156-01-6	7.6-33mm	±0.002mm	64.5mm	29mm
156-02-6	25-50mm	±0.002mm	82mm	29mm

Disc Brake Micrometers

156 Series

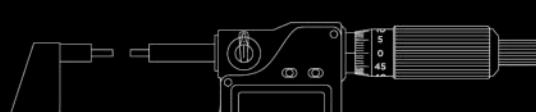


FEATURES

- Graduation: 0.001"/0.01mm
- For disc brake system grooves depth measurement
- Carbide measuring face with 60° point
- Setting standards are included (except 0-25mm/0-1")

Inch				
Code No.	Range	Accuracy	L	A
156-01-1	.3-1.3"	±.0001"	2.54"	1.14"
156-02-1	1-2"	±.0001"	3.23"	1.14"

Metric				
Code No.	Range	Accuracy	L	A
156-01-0	7.6-33mm	0.004mm	64.5mm	29mm
156-02-0	25-50mm	0.004mm	82mm	29mm



Digital V-Anvil Micrometers

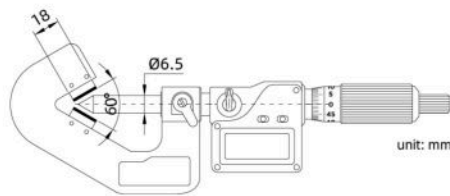
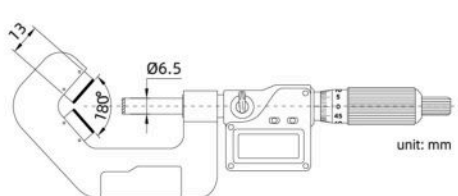
155 Series



155-01-0



155-01-1



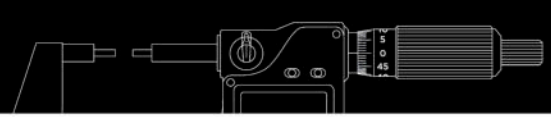
FEATURES

- Resolution:
Digital reading: .00005"/0.001mm
- For cutting tools (e.g. taps, reamers and end mills, etc.) outside diameter measurement
- Button function: On/Off, Set, ABS/INC, mm/inch
- Carbide tipped measuring faces
- Actual absolute measuring position will be displayed when turn on the tools
- Auto-Off to maximize battery life
- Protection level IP65
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5



3 Flutes			5 Flutes		
Code No.	Range	Accuracy	Code No.	Range	Accuracy
155-01-1	.04-.6"	±.00010"	155-01-5	.2-1.0"	±.0001"
155-02-1	.2-.8"	±.00010"	155-02-5	1.0-1.8"	±.0002"
155-03-1	.08-1.4"	±.00010"	155-03-5	1.8-2.6"	±.0002"
155-04-1	1.4-2.0"	±.00010"	155-04-5	2.6-3.4"	±.0002"
155-05-1	2.0-2.6"	±.00010"	155-05-5	3.4-4.2"	±.0002"
155-06-1	2.6-3.2"	±.00015"	-	-	-
155-07-1	3.2-3.8"	±.00015"	-	-	-
155-01-3	.09-1.0"	±.00010"	-	-	-
155-02-3	1.0-2.0"	±.00010"	-	-	-

3 Flutes			5 Flutes		
Code No.	Range	Accuracy	Code No.	Range	Accuracy
155-01-0	1-15mm	±0.002mm	155-01-4	5-25mm	±0.002mm
155-02-0	5-20mm	±0.002mm	155-02-4	25-45mm	±0.002mm
155-03-0	20-35mm	±0.003mm	155-03-4	45-65mm	±0.003mm
155-04-0	35-50mm	±0.003mm	155-04-4	65-85mm	±0.003mm
155-05-0	50-65mm	±0.003mm	155-05-4	85-105mm	±0.003mm
155-06-0	65-80mm	±0.003mm	-	-	-
155-07-0	80-95mm	±0.003mm	-	-	-
155-01-2	2.3-25mm	±0.002mm	-	-	-
155-02-2	25-50mm	±0.002mm	-	-	-



V-Anvil Micrometers

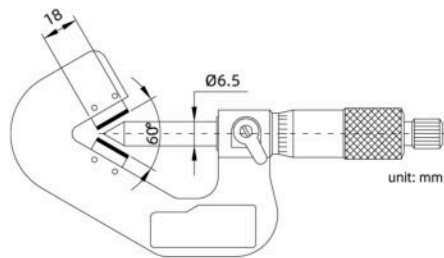
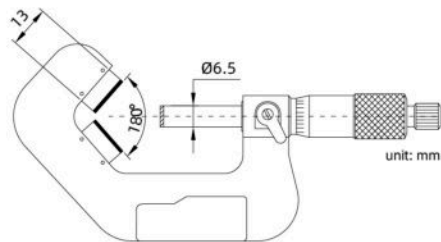
151 Series



151-01-5

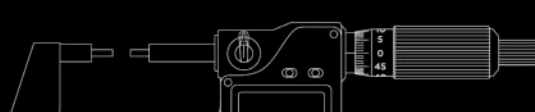
FEATURES

- Graduation: .001"/0.01mm
- For cutting tools (e.g. taps, reamers and end mills, etc.) outside diameter measurement
- Carbide tipped measuring faces
- Setting standards are included (except 0-25mm/0-1")



3 Flutes			5 Flutes		
Code No.	Range	Accuracy	Code No.	Range	Accuracy
151-01-1	.04-.6"	±.00010"	151-01-5	.2-1.0"	±.0001"
151-02-1	.2-.8"	±.00010"	151-02-5	1.0-1.8"	±.0002"
151-03-1	.08-1.4"	±.00010"	151-03-5	1.8-2.6"	±.0002"
151-04-1	1.4-2.0"	±.00010"	151-04-5	2.6-3.4"	±.0002"
151-05-1	2.0-2.6"	±.00010"	151-05-5	3.4-4.2"	±.0002"
151-06-1	2.6-3.2"	±.00015"	-	-	-
151-07-1	3.2-3.8"	±.00015"	-	-	-
151-01-3	.09-1.0"	±.00010"	-	-	-
151-02-3	1.0-2.0"	±.00010"	-	-	-

3 Flutes			5 Flutes		
Code No.	Range	Accuracy	Code No.	Range	Accuracy
151-01-0	1-15mm	0.004mm	151-01-4	5-25mm	0.004mm
151-02-0	5-20mm	0.004mm	151-02-4	25-45mm	0.005mm
151-03-0	20-35mm	0.005mm	151-03-4	45-65mm	0.005mm
151-04-0	35-50mm	0.005mm	151-04-4	65-85mm	0.005mm
151-05-0	50-65mm	0.005mm	151-05-4	85-105mm	0.006mm
151-06-0	65-80mm	0.005mm	-	-	-
151-07-0	80-95mm	0.005mm	-	-	-
151-01-2	2.3-25mm	0.004mm	-	-	-
151-02-2	25-50mm	0.004mm	-	-	-



Digital Screw Thread Micrometers

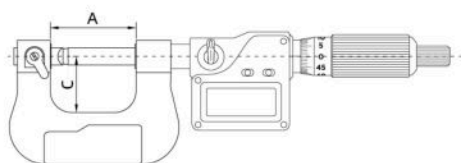
136/137 Series



136-01-0



136-01-0



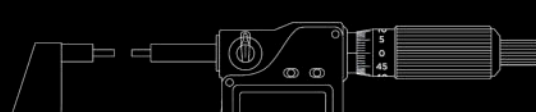
FEATURES

- Resolution:
Digital reading: .00005"/0.001mm
- For screw thread measurement
- Non-rotating spindle
- Interchangeable anvils
- Button function: On/Off, Set, ABS/INC, mm/inch
- Carbide tipped measuring faces
- Actual absolute measuring position will be displayed when turn on the tools
- Auto-Off to maximize battery life
- Setting standards are included (except 0-25mm/0-1")
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5



Inch				Dimensions		
Code No.	Set Code No.	Range	Accuracy	A	C	Anvils
136-01-1	137-01-1	0-1"	±.00010"	1.654"	1.024"	5
136-02-1	137-02-1	1-2"	±.00010"	2.638"	1.496"	5
136-03-1	137-03-1	2-3"	±.00010"	3.622"	1.969"	4
136-04-1	137-04-1	3-4"	±.00015"	4.630"	2.441"	4
136-05-1	137-05-1	4-5"	±.00015"	5.630"	2.756"	3
136-06-1	137-06-1	5-6"	±.00015"	6.622"	3.228"	3

Metric				Dimensions		
Code No.	Set Code No.	Range	Accuracy	A	C	Anvils
136-01-0	137-01-0	0-25mm	±0.002mm	42mm	26mm	5
136-02-0	137-02-0	25-50mm	±0.002mm	67mm	38mm	5
136-03-0	137-03-0	50-75mm	±0.003mm	92mm	50mm	4
136-04-0	137-04-0	75-100mm	±0.003mm	117.6mm	62mm	4
136-05-0	137-05-0	100-125mm	±0.003mm	143mm	70mm	3
136-06-0	137-06-0	125-150mm	±0.003mm	168.2mm	82mm	3

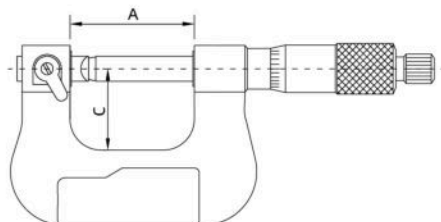


Screw Thread Micrometers

132/133 Series



133-01-0



FEATURES

- Graduation: .001"/0.01mm
- For screw thread measurement
- Non-rotating spindle
- Interchangeable anvils
- Setting standards are included (except 0-25mm/0-1")

Set		Inch	Dimensions			
Code No.	Set Code No.	Range	Accuracy	A	C	Anvils
132-01-1	133-01-1	0-1"	±.00010"	1.654"	1.024"	5
132-02-1	133-02-1	1-2"	±.00010"	2.638"	1.496"	5
132-03-1	133-03-1	2-3"	±.00010"	3.622"	1.969"	4
132-04-1	133-04-1	3-4"	±.00015"	4.630"	2.441"	4
132-05-1	133-05-1	4-5"	±.00015"	5.630"	2.756"	3
132-06-1	133-06-1	5-6"	±.00015"	6.622"	3.228"	3

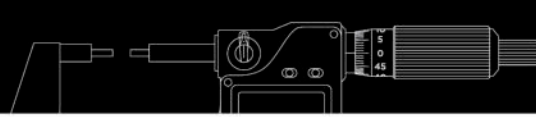
Set		Metric	Dimensions			
Code No.	Set Code No.	Range	Accuracy	A	C	Anvils
132-01-0	133-01-0	0-25mm	0.004mm	42mm	26mm	5
132-02-0	133-02-0	25-50mm	0.004mm	67mm	38mm	5
132-03-0	133-03-0	50-75mm	0.005mm	92mm	50mm	4
132-04-0	133-04-0	75-100mm	0.005mm	117.6mm	62mm	4
132-05-0	133-05-0	100-125mm	0.006mm	143mm	70mm	3
132-06-0	133-06-0	125-150mm	0.006mm	168.2mm	82mm	3

Anvils (For Screw 60° ISO)

130 Series

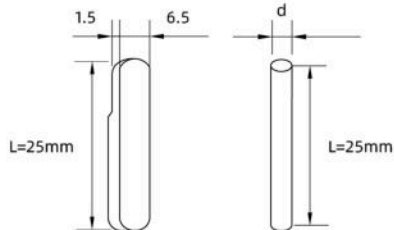
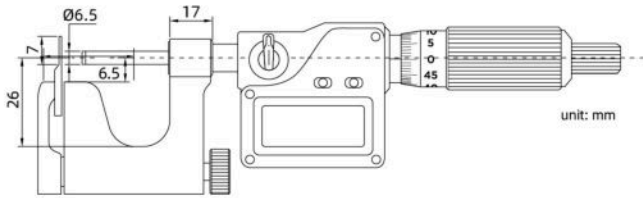


Anvils		
Code No.	Pitch	Notes
130-60-0	0.4-7.0mm / 64-3.5TPI	Set of 6
130-61-0	0.4-0.5mm / 64-48TPI	1 Set
130-62-0	0.6-0.9mm / 44-28TPI	1 Set
130-63-0	1.0-1.75mm / 24-14TPI	1 Set
130-64-0	2.0-3.0mm / 13-9TPI	1 Set
130-65-0	3.5-5.0mm / 8-5TPI	1 Set
130-66-0	5.5-7.0mm / 4.5-3.5TPI	1 Set



Digital Multi-Anvil Micrometers

125 Series



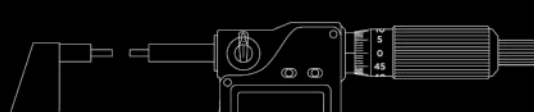
FEATURES

- Resolution:
Digital reading: .00005"/0.001mm
- Measures tube thickness, shoulder edge distance rivet head height, with interchangeable anvils (Flat Anvil, Rod Anvil)
- Button function: On/Off, Set, ABS/INC, mm/inch
- Carbide tipped measuring faces
- Actual absolute measuring position will be displayed when turn on the tools
- Auto-Off to maximize battery life
- Setting standards are included (except 0-25mm/0-1")
- Protection level IP65
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5



Inch			Dimensions	
Code No.	Range	Accuracy	A	d
125-01-1	0-1"	±.00010"	1.122"	Ø.118"
125-02-1	1-2"	±.00010"	2.106"	Ø.197"

Metric			Dimensions	
Code No.	Range	Accuracy	A	d
125-01-0	0-25mm	±0.002mm	28.5mm	Ø3mm
125-02-0	25-50mm	±0.002mm	53.5mm	Ø5mm



Multi-Anvil Micrometers

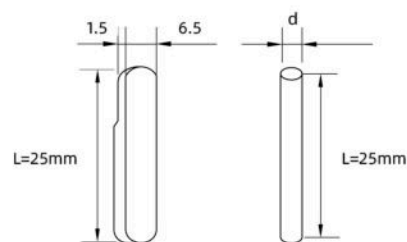
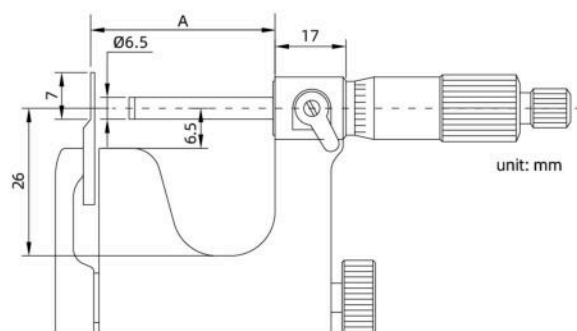
121 Series



121-01-1

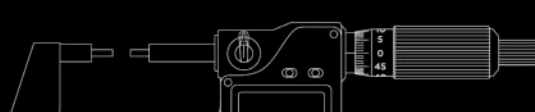
FEATURES

- Graduation: .001"/0.01mm
- Measures tube thickness, shoulder edge distance rivet head height, with interchangeable anvils (Flat Anvil, Rod Anvil, V-anvil)
- Carbide tipped measuring faces
- Setting standards are included (except 0-25mm/0-1")



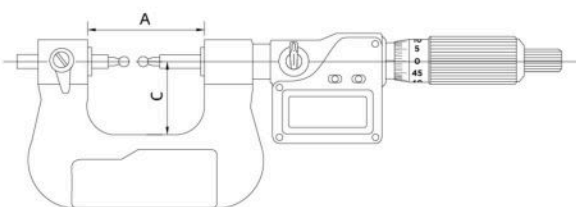
Inch			Dimensions	
Code No.	Range	Accuracy	A	d
121-01-1	0-1"	±.00010"	1.122"	Ø.118"
121-02-1	1-2"	±.00010"	2.106"	Ø.197"

Metric			Dimensions	
Code No.	Range	Accuracy	A	d
121-01-0	0-25mm	0.004mm	28.5mm	Ø3mm
121-02-0	25-50mm	0.004mm	53.5mm	Ø5mm



Digital Gear Tooth Micrometers

118 Series



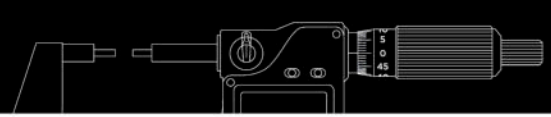
FEATURES

- Resolution:
Digital reading: .00005"/0.001mm
- Measures over-pin diameter of gears with precision steel (carbide) ball-tipped measuring faces
- Interchangeable ball anvil-spindle tips for various gear modules (0.6-3.5) are optional
- Set includes 10 pairs Interchangeable anvils
- Button function: On/Off, Set, ABS/INC, mm/inch
- Carbide tipped measuring faces
- Actual absolute measuring position will be displayed when turn on the tools
- Auto-Off to maximize battery life
- Setting standards are included (except 0-25mm/0-1")
- Protection level IP65
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5



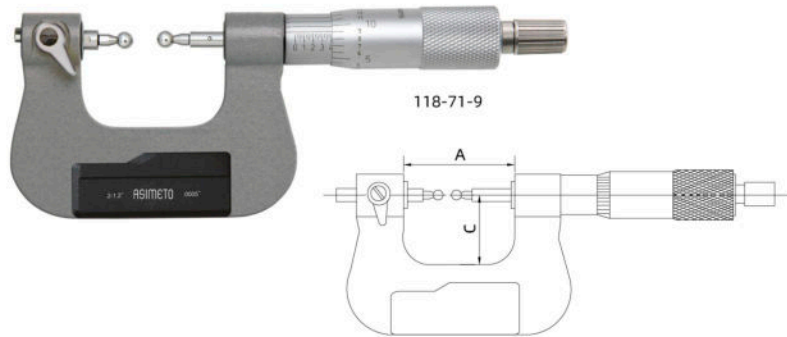
Inch				Dimensions	
Code No.	Set Code No.	Range	Accuracy	A	C
118-31-1	118-31-9	0-1"	±0.00010"	2.638"	1.496"
118-32-1	118-32-9	1-2"	±0.00010"	3.638"	1.969"
118-33-1	118-33-9	2-3"	±0.00010"	4.630"	2.441"
118-34-1	118-34-9	3-4"	±0.00015"	5.630"	2.756"
118-35-1	118-35-9	4-5"	±0.00015"	6.622"	3.228"
118-36-1	118-36-9	5-6"	±0.00015"	7.559"	3.721"
118-37-1	118-37-9	6-7"	±0.00020"	8.543"	4.213"

Metric				Dimensions	
Code No.	Set Code No.	Range	Accuracy	A	C
118-31-0	118-31-8	0-25mm	±0.002mm	67mm	38mm
118-32-0	118-32-8	25-50mm	±0.002mm	92.4mm	50mm
118-33-0	118-33-8	50-75mm	±0.003mm	117.6mm	62mm
118-34-0	118-34-8	75-100mm	±0.003mm	143mm	70mm
118-35-0	118-35-8	100-125mm	±0.003mm	168.2mm	82mm
118-36-0	118-36-8	125-150mm	±0.003mm	192mm	94.5mm
118-37-0	118-37-8	150-175mm	±0.004mm	217mm	107mm



Gear Tooth Micrometers

118 Series



FEATURES

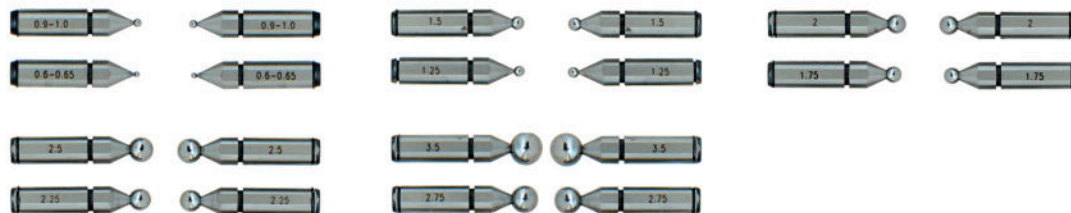
- Graduation: .001"/0.01mm
- Ratchet stop
- Measures over-pin diameter of gears with precision steel (carbide) ball-tipped measuring faces
- Interchangeable ball anvil-spindle tips for various gear modules (0.6-3.5) are optional
- Set includes 10 pairs interchangeable anvils
- Setting standards are included (except 0-25mm/0-1")

Inch				Dimensions	
Code No.	Set Code No.	Range	Accuracy	A	C
118-71-1	118-71-9	0-1"	±.00010"	2.638"	1.496"
118-72-1	118-72-9	1-2"	±.00010"	3.638"	1.969"
118-73-1	118-73-9	2-3"	±.00010"	4.630"	2.441"
118-74-1	118-74-9	3-4"	±.00015"	5.630"	2.756"
118-75-1	118-75-9	4-5"	±.00015"	6.622"	3.228"
118-76-1	118-76-9	5-6"	±.00015"	7.559"	3.721"
118-77-1	118-77-9	6-7"	±.00020"	8.543"	4.213"

Metric				Dimensions	
Code No.	Set Code No.	Range	Accuracy	A	C
118-71-0	118-71-8	0-25mm	0.004mm	67mm	38mm
118-72-0	118-72-8	25-50mm	0.004mm	92.4mm	50mm
118-73-0	118-73-8	50-75mm	0.005mm	117.6mm	62mm
118-74-0	118-74-8	75-100mm	0.005mm	143mm	70mm
118-75-0	118-75-8	100-125mm	0.006mm	168.2mm	82mm
118-76-0	118-76-8	125-150mm	0.006mm	192mm	94.5mm
118-77-0	118-77-8	150-175mm	0.007mm	217mm	107mm

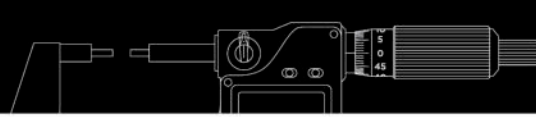
Anvils For Gear Tooth Micrometers

119 Series



Anvils			
Code No.	Ball Dia.	Module	Diametral Pitch
119-80-0	Ø1mm-Ø6.0mm	0.6-3.5	45-7
119-81-0	Ø1mm	0.6-0.65	45
119-82-0	Ø1.5mm	0.9-1.0	28-26
119-83-0	Ø2.0mm	1.25	22
119-84-0	Ø2.5mm	1.5	17
119-85-0	Ø3.0mm	1.75	15

Anvils			
Code No.	Ball Dia.	Module	Diametral Pitch
119-86-0	Ø3.5mm	2	13
119-87-0	Ø4.0mm	2.25	11
119-88-0	Ø4.5mm	2.5	10
119-89-0	Ø5.0mm	2.75	9
119-90-0	Ø6.0mm	3.5	7



Digital Universal Micrometers

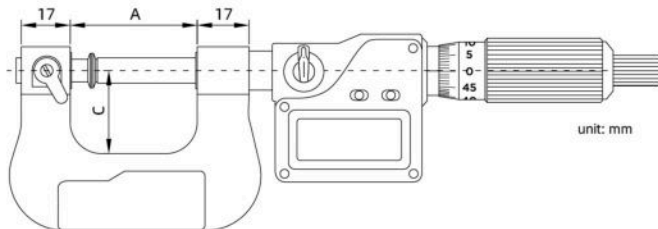
146 Series



146-01-0



146-01-1



FEATURES

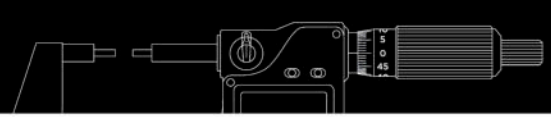
- Resolution:
Digital reading: .00005"/0.001mm
- With 7 pairs of interchangeable anvils
- For a wide range of applications
- Button function: On/Off, Set, ABS/INC, mm/inch
- Carbide tipped measuring faces
- Actual absolute measuring position will be displayed when turn on the tools
- Auto-Off to maximize battery life
- Setting standards are included (except 0-25mm/0-1")
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5



Anvils	Flat	Spherical	Blade	Point	Spline	Disc	Knife-Edge
Type							

Inch		Dimensions		
Code No.	Range	Accuracy	A	C
146-01-1	0-1"	±.00010"	1.654"	1.024"
146-02-1	1-2"	±.00010"	2.638"	1.496"
146-03-1	2-3"	±.00010"	3.622"	1.969"
146-04-1	3-4"	±.00015"	4.647"	2.441"
146-05-1	4-5"	±.00015"	5.630"	2.756"
146-06-1	5-6"	±.00015"	6.622"	3.228"
146-07-1	6-7"	±.00020"	7.559"	3.720"
146-08-1	7-8"	±.00020"	8.543"	4.213"

Metric		Dimensions		
Code No.	Range	Accuracy	A	C
146-01-0	0-25mm	±0.002mm	42mm	26mm
146-02-0	25-50mm	±0.002mm	67mm	38mm
146-03-0	50-75mm	±0.003mm	92mm	50mm
146-04-0	75-100mm	±0.003mm	118mm	62mm
146-05-0	100-125mm	±0.003mm	143mm	70mm
146-06-0	125-150mm	±0.003mm	168mm	82mm
146-07-0	150-175mm	±0.004mm	192mm	95mm
146-08-0	175-200mm	±0.004mm	217mm	107mm



Universal Micrometers

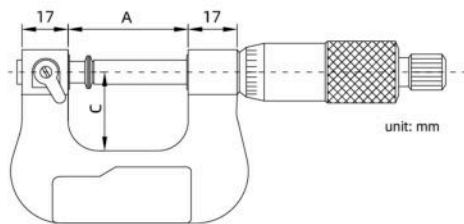
142 Series



142-01-1

FEATURES

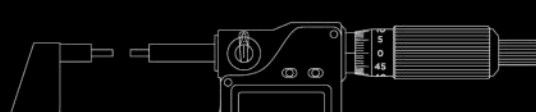
- Graduation: .001"/0.01mm
- With 7 pairs of interchangeable anvils
- For a wide range of applications
- Setting standards are included (except 0-25mm/0-1")



Anvils	Flat	Spherical	Blade	Point	Spline	Disc	Knife-Edge
Type							

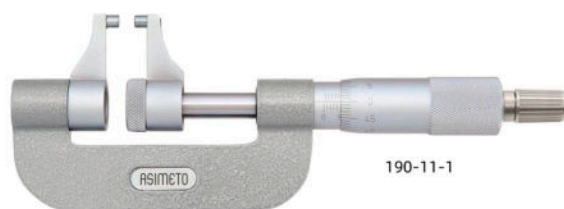
Inch			Dimensions	
Code No.	Range	Accuracy	A	C
142-01-1	0-1"	±.00010"	1.654"	1.024"
142-02-1	1-2"	±.00010"	2.638"	1.496"
142-03-1	2-3"	±.00010"	3.622"	1.969"
142-04-1	3-4"	±.00015"	4.647"	2.441"
142-05-1	4-5"	±.00015"	5.630"	2.756"
142-06-1	5-6"	±.00015"	6.622"	3.228"
142-07-1	6-7"	±.00020"	7.559"	3.720"
142-08-1	7-8"	±.00020"	8.543"	4.213"

Metric			Dimensions	
Code No.	Range	Accuracy	A	C
142-01-0	0-25mm	0.004mm	42mm	26mm
142-02-0	25-50mm	0.004mm	67mm	38mm
142-03-0	50-75mm	0.005mm	92mm	50mm
142-04-0	75-100mm	0.005mm	118mm	62mm
142-05-0	100-125mm	0.006mm	143mm	70mm
142-06-0	125-150mm	0.006mm	168mm	82mm
142-07-0	150-175mm	0.007mm	192mm	95mm
142-08-0	175-200mm	0.007mm	217mm	107mm



Caliper Micrometers

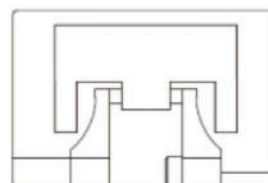
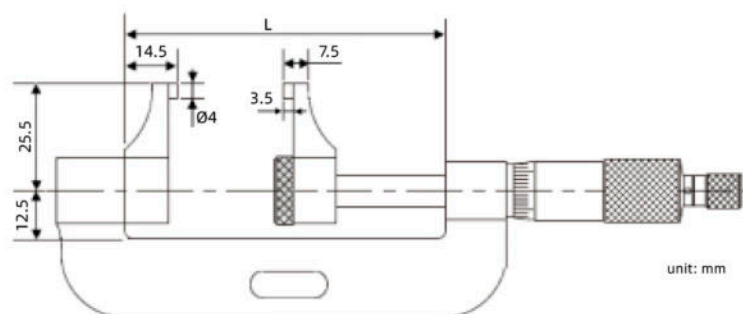
190 Series



190-11-1

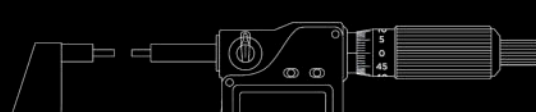
FEATURES

- Graduation:
Inch: .001"
Metric: 0.01mm
- Ratchet stop
- Carbide tipped measuring faces
- Setting standards are included (except 0-25mm/0-1")



Inch			Dimensions
Code No.	Range	Accuracy	L
190-11-1	0-1"	±.00010"	2.205"
190-12-1	1-2"	±.00010	3.189"
190-13-1	2-3"	±.00010"	4.173"
190-14-1	3-4"	±.00015"	5.157"

Metric			Dimensions
Code No.	Range	Accuracy	L
190-11-0	0-25mm	0.004mm	56mm
190-12-0	25-50mm	0.004mm	81mm
190-13-0	50-75mm	0.005mm	106mm
190-14-0	75-100mm	0.005mm	131mm



Sheet Metal Micrometers

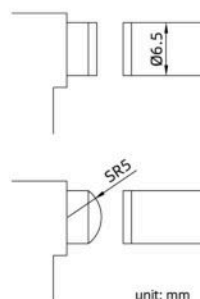
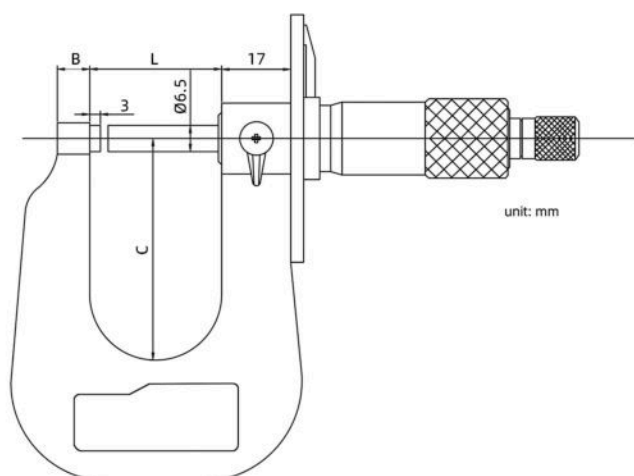
158 Series



158-51-1

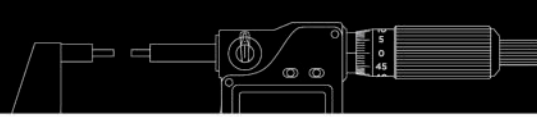
FEATURES

- Graduation: .001"/0.01mm
- Carbide tipped measuring faces
- The dial reading allows for quick reading of sheet metal thickness
- Setting standards are included (except 0-25mm/0-1")



Flat	Spherical	Inch	Dimensions			
Code No.	Code No.	Range	Accuracy	L	B	C
158-51-1	158-51-3	0-.6"	±.00010"	.866"	.315"	2.165"
158-52-1	158-52-3	0-1"	±.00010"	1.260"	.315"	2.165"
158-53-1	158-53-3	1-2"	±.00010"	2.244"	.472"	4.134"

Flat	Spherical	Metric	Dimensions			
Code No.	Code No.	Range	Accuracy	L	B	C
158-51-0	158-51-2	0-15mm	0.004mm	22mm	8mm	55mm
158-52-0	158-52-2	0-25mm	0.004mm	32mm	8mm	55mm
158-53-0	158-53-2	0-50mm	0.005mm	57mm	12mm	105mm

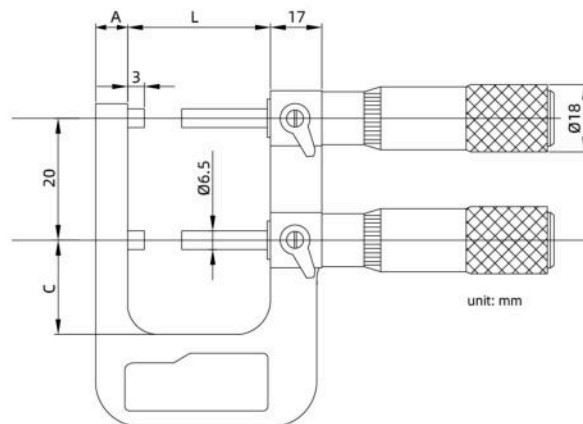


Limit Micrometers

133 Series



133-31-0



FEATURES

- Graduation: .0001"/0.002mm
- Carbide tipped measuring faces
- Can be used as a GO/NOGO gauge by setting the upper and lower limits
- Setting standards are included (except 0-25mm/0-1")

Inch			Dimensions		
Code No.	Range	Accuracy	A	L	C
133-31-1	0-1"	±.00010"	.472"	1.260"	.945"
133-32-1	1-2"	±.00010"	0.591"	2.244"	1.260"

Metric			Dimensions		
Code No.	Range	Accuracy	A	L	C
133-31-0	0-25mm	0.003mm	12mm	32mm	24mm
133-32-0	25-50mm	0.003mm	15mm	57mm	32mm

Wire Micrometers

161 Series



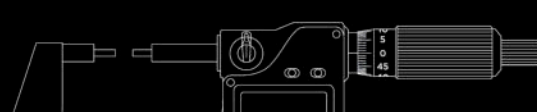
161-01-0

FEATURES

- Graduation: .001"/0.01mm
- Carbide tipped measuring faces
- Measure wire or small spheres diameter

Inch		
Code No.	Range	Accuracy
161-01-1	0-.4"	±.00010"

Metric		
Code No.	Range	Accuracy
161-01-0	0-10mm	0.004mm



Hub Micrometers

160 Series



160-01-0

FEATURES

- Graduation: .0001"/0.01mm
- Measures hub thickness and shoulders inside the bore
- Setting standards are included (except 0-25mm/0-1")

Inch		
Code No.	Range	Accuracy
160-01-1	0-1"	±.00010"
160-02-1	1-2"	±.00010"
160-03-1	2-3"	±.00010"
160-04-1	3-4"	±.00015"

Metric		
Code No.	Range	Accuracy
160-01-0	0-25mm	0.004mm
160-02-0	25-50mm	0.004mm
160-03-0	50-75mm	0.005mm
160-04-0	75-100mm	0.005mm

Can Seam Micrometers

162 Series



162-01-0



162-01-2



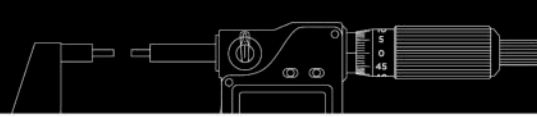
162-01-4

FEATURES

- Graduation: .001"/0.01mm
- Measures width, height and depth of can seams
- The different models correspond to the type of cans as per the chart below

Steel Cans	Aluminum Cans	Aerosol Cans	Inch	
Code No.	Code No.	Code No.	Range	Accuracy
162-01-1	162-01-3	162-01-5	0-.5"	.0001"

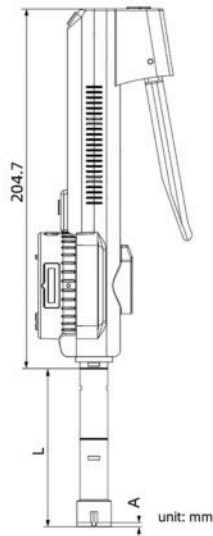
Steel Cans	Aluminum Cans	Aerosol Cans	Metric	
Code No.	Code No.	Code No.	Range	Accuracy
162-01-0	162-01-2	162-01-4	0-13mm	0.004mm



Digital Grip Three Point Internal Micrometers 210 Series



210-26-1



FEATURES

- Resolution: .00005"/0.001mm
- Built-in wireless data transmission
- Tolerance preset and GO/NG judgement
- Multi-Angle Viewing: 330° rotating screen ensures easy-to-read measurements
- Measuring contact points are designed to allow measurements near the bottom of blind holes
- Measuring surface is carbide (12mm above)
- Additional extensions can be added to increase the measuring depth
- Setting rings for origin point setting
- Setting ring is not included for size 100mm / 4" or above

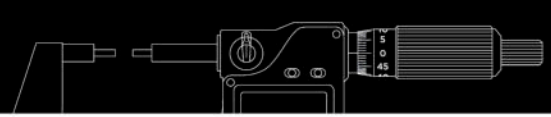


Inch		Dimensions				
Code No.	Range	Accuracy	Setting Ring	L	A	Extension Rod
210-11-1	.275-.35"	±.00010"	.35"	2.16"	.04"	4"
210-12-1	.35-.425"	±.00010"	.35"	2.16"	.06"	4"
210-13-1	.425-.5"	±.00010"	.5"	2.16"	.06"	4"
210-24-1	.5-.65"	±.00010"	.65"	3.15"	.02"	6"
210-25-1	.65-.8"	±.00010"	.65"	3.15"	.02"	6"
210-26-1	.8-1.0"	±.00010"	1.0"	3.54"	.02"	6"
210-27-1	1.0-1.2"	±.00015"	1.0"	3.54"	.02"	6"
210-28-1	1.2-1.6"	±.00015"	1.6"	4.13"	.02"	6"
210-29-1	1.6-2.0"	±.00020"	1.6"	4.13"	.02"	6"
210-30-1	2.0-2.5"	±.00020"	2.5"	5"	.02"	6"
210-31-1	2.5-3.0"	±.00020"	2.5"	5"	.02"	6"
210-32-1	3.0-3.5"	±.00020"	3.5"	5"	.02"	6"
210-33-1	3.5-4.0"	±.00020"	3.5"	5"	.02"	6"
210-34-1	4-5"	±.00020"	4"	6.14"	.04"	6"
210-35-1	5-6"	±.00020"	5"	6.14"	.04"	6"
210-36-1	6-7"	±.00020"	6"	6.14"	.04"	6"
210-37-1	7-8"	±.00020"	7"	6.14"	.04"	6"
210-38-1	8-9"	±.00025"	8"	6.14"	.04"	6"
210-39-1	9-10"	±.00025"	9"	6.14"	.04"	6"
210-40-1	10-11"	±.00025"	10"	6.14"	.04"	6"
210-41-1	11-12"	±.00025"	11"	6.14"	.04"	6"

Metric		Dimensions				
Code No.	Range	Accuracy	Setting Ring	L	A	Extension Rod
210-11-0	6-8mm	0.004mm	8mm	55mm	1.0mm	100mm
210-12-0	8-10mm	0.004mm	8mm	55mm	1.5mm	100mm
210-13-0	10-12mm	0.004mm	12mm	55mm	1.5mm	100mm
210-24-0	12-16mm	0.004mm	16mm	80mm	0.5mm	150mm
210-25-0	16-20mm	0.004mm	16mm	80mm	0.5mm	150mm
210-26-0	20-25mm	0.004mm	25mm	90mm	0.5mm	150mm
210-27-0	25-30mm	0.004mm	25mm	90mm	0.5mm	150mm
210-28-0	30-40mm	0.004mm	40mm	105mm	0.5mm	150mm
210-29-0	40-50mm	0.004mm	40mm	105mm	0.5mm	150mm
210-30-0	50-63mm	0.005mm	62mm	127mm	0.5mm	150mm
210-31-0	62-75mm	0.005mm	62mm	127mm	0.5mm	150mm
210-32-0	75-88mm	0.005mm	87mm	127mm	0.5mm	150mm
210-33-0	87-100mm	0.005mm	87mm	127mm	0.5mm	150mm
210-34-0	100-125mm	0.005mm	100mm	156mm	1.0mm	150mm
210-35-0	125-150mm	0.005mm	125mm	156mm	1.0mm	150mm
210-36-0	150-175mm	0.005mm	150mm	156mm	1.0mm	150mm
210-37-0	175-200mm	0.005mm	175mm	156mm	1.0mm	150mm
210-38-0	200-225mm	0.007mm	200mm	156mm	1.0mm	150mm
210-39-0	225-250mm	0.007mm	225mm	156mm	1.0mm	150mm
210-40-0	250-275mm	0.007mm	250mm	156mm	1.0mm	150mm
210-41-0	275-300mm	0.007mm	275mm	156mm	1.0mm	150mm

Inch Sets				
Code No.	Range	Sets	Setting Ring	Extension Rod
210-63-9	.275-.5"	3 pcs 0.275-0.35", 0.35-0.425", 0.425-0.5"	0.35", 0.5"	4"
210-64-9	.5-.8"	2 pcs 0.5-0.65", 0.65"-0.8"	0.65"	6"
210-65-9	.8-2"	4 pcs 0.8-1", 1-1.2", 1.2-1.6", 1.6-2"	1", 1.6"	6"
210-66-9	2-4"	4 pcs 2-2.5", 2.5-3", 3-3.5", 3.5-4"	2.5", 3.5"	6"

Metric Sets				
Code No.	Range	Sets	Setting Ring	Extension Rod
210-63-8	6-12mm	3 pcs 6-8, 8-10, 10-12mm	8, 12mm	100mm
210-64-8	12-20mm	2 pcs 12-16, 16-20mm	16mm	150mm
210-65-8	20-50mm	4 pcs 20-25, 25-30, 30-40, 40-50mm	25, 40mm	150mm
210-66-8	50-100mm	4 pcs 50-63, 62-75, 75-88, 87-100mm	62, 87mm	150mm

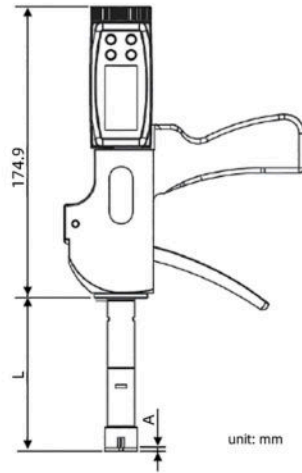


Digital Pistol-Grip Three Point Internal Micrometers

211 Series



211-33-0



FEATURES

- Resolution: .00005"/0.001mm
- Absolute capacitive system
- Built-in wireless data transmission
- Measuring contact points are designed to allow measurements near the bottom of blind holes
- Measuring surface are carbide (12mm above)
- Display can rotate 90°
- Setting ring is not included for size 100mm / 4" or above

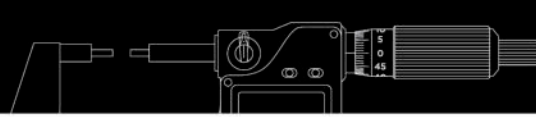


Inch		Dimensions				
Code No.	Range	Accuracy	Setting Ring	L	A	Extension Rod
211-11-1	.275-.35"	±.00010"	.35"	2.16"	.04"	4"
211-12-1	.35-.425"	±.00010"	.35"	2.16"	.06"	4"
211-13-1	.425-.5"	±.00010"	.5"	2.16"	.06"	4"
211-24-1	.5-.65"	±.00010"	.65"	3.15"	.02"	6"
211-25-1	.65-.8"	±.00010"	.65"	3.15"	.02"	6"
211-26-1	.8-1.0"	±.00010"	1.0"	3.54"	.02"	6"
211-27-1	1.0-1.2"	±.00015"	1.0"	3.54"	.02"	6"
211-28-1	1.2-1.6"	±.00015"	1.6"	4.13"	.02"	6"
211-29-1	1.6-2.0"	±.00020"	1.6"	4.13"	.02"	6"
211-30-1	2.0-2.5"	±.00020"	2.5"	5"	.02"	6"
211-31-1	2.5-3.0"	±.00020"	2.5"	5"	.02"	6"
211-32-1	3.0-3.5"	±.00020"	3.5"	5"	.02"	6"
211-33-1	3.5-4.0"	±.00020"	3.5"	5"	.02"	6"
211-34-1	4-5"	±.00020"	4"	6.14"	.04"	6"
211-35-1	5-6"	±.00020"	5"	6.14"	.04"	6"
211-36-1	6-7"	±.00020"	6"	6.14"	.04"	6"
211-37-1	7-8"	±.00020"	7"	6.14"	.04"	6"
211-38-1	8-9"	±.00025"	8"	6.14"	.04"	6"
211-39-1	9-10"	±.00025"	9"	6.14"	.04"	6"
211-40-1	10-11"	±.00025"	10"	6.14"	.04"	6"
211-41-1	11-12"	±.00025"	11"	6.14"	.04"	6"

Metric		Dimensions				
Code No.	Range	Accuracy	Setting Ring	L	A	Extension Rod
211-11-0	6-8mm	0.004mm	8mm	55mm	1.0mm	100mm
211-12-0	8-10mm	0.004mm	8mm	55mm	1.5mm	100mm
211-13-0	10-12mm	0.004mm	12mm	55mm	1.5mm	100mm
211-24-0	12-16mm	0.004mm	16mm	80mm	0.5mm	150mm
211-25-0	16-20mm	0.004mm	16mm	80mm	0.5mm	150mm
211-26-0	20-25mm	0.004mm	25mm	90mm	0.5mm	150mm
211-27-0	25-30mm	0.004mm	25mm	90mm	0.5mm	150mm
211-28-0	30-40mm	0.004mm	40mm	105mm	0.5mm	150mm
211-29-0	40-50mm	0.004mm	40mm	105mm	0.5mm	150mm
211-30-0	50-63mm	0.005mm	62mm	127mm	0.5mm	150mm
211-31-0	62-75mm	0.005mm	62mm	127mm	0.5mm	150mm
211-32-0	75-88mm	0.005mm	87mm	127mm	0.5mm	150mm
211-33-0	87-100mm	0.005mm	87mm	127mm	0.5mm	150mm
211-34-0	100-125mm	0.005mm	100mm	156mm	1.0mm	150mm
211-35-0	125-150mm	0.005mm	125mm	156mm	1.0mm	150mm
211-36-0	150-175mm	0.005mm	150mm	156mm	1.0mm	150mm
211-37-0	175-200mm	0.005mm	175mm	156mm	1.0mm	150mm
211-38-0	200-225mm	0.007mm	200mm	156mm	1.0mm	150mm
211-39-0	225-250mm	0.007mm	225mm	156mm	1.0mm	150mm
211-40-0	250-275mm	0.007mm	250mm	156mm	1.0mm	150mm
211-41-0	275-300mm	0.007mm	275mm	156mm	1.0mm	150mm

Inch Sets				
Code No.	Range	Sets	Setting Ring	Extension Rod
211-63-9	.275-.5"	3 pcs 0.275-0.35", 0.35-0.425", 0.425-0.5"	0.35", 0.5"	4"
211-64-9	.5-.8"	2 pcs 0.5-0.65", 0.65"-0.8"	0.65"	6"
211-65-9	.8-2"	4 pcs 0.8-1", 1-1.2", 1.2-1.6", 1.6-2"	1", 1.6"	6"
211-66-9	2-4"	4 pcs 2-2.5", 2.5-3", 3-3.5", 3.5-4"	2.5", 3.5"	6"

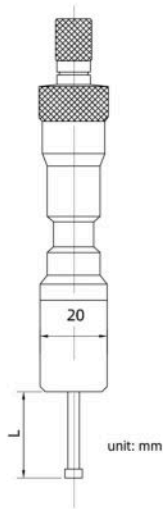
Metric Sets				
Code No.	Range	Sets	Setting Ring	Extension Rod
211-63-8	6-12mm	3 pcs 6-8, 8-10, 10-12mm	8, 12mm	100mm
211-64-8	12-20mm	2 pcs 12-16, 16-20mm	16mm	150mm
211-65-8	20-50mm	4 pcs 20-25, 25-30, 30-40, 40-50mm	25, 40mm	150mm
211-66-8	50-100mm	4 pcs 50-63, 62-75, 75-88, 87-100mm	62, 87mm	150mm



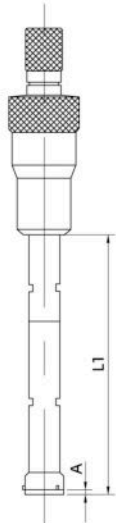
Digital Two And Three Point Internal Micrometers (2-12mm/.08-.5") 208 Series



208-12-0



Dimension: 2-6mm / .08-.24"



Dimension: 6-12mm / .275-.5"

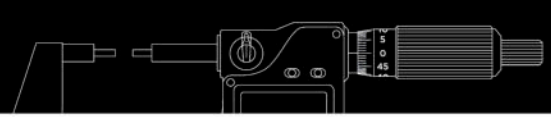
FEATURES

- Resolution: .00005"/0.001mm
- Protection level IP65
- Setting ring supplied
- Measuring contact points are designed to allow measurements near to the bottom of blind holes
- Size up to 6mm/.24 inch are two measuring points; size over 6mm/.24 inch are three measuring points
- Button function: On/Off, Set, ABS/INC, mm/inch
- Measuring surfaces are carbide
- Auto-Off to maximize battery life
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5



Inch			Dimensions			
Code No.	Range	Accuracy	Setting Ring	L	A	Extension Rod
208-06-1	.08-.1"	±.00010"	.1"	0.5"	-	-
208-07-1	.1-.12"	±.00010"	.1"	0.5"	-	-
208-08-1	.12-.16"	±.00010"	.16"	0.9"	-	-
208-09-1	.16-.2"	±.00010"	.16"	0.9"	-	-
208-10-1	.2-.24"	±.00010"	.24"	0.9"	-	-
208-10-5	.24-.28"	±.00010"	.24"	0.9"	-	-
208-11-1	.275-.35"	±.00010"	.275"	2.18"	0.06"	4"
208-12-1	.35-.425"	±.00010"	.35"	2.18"	0.06"	4"
208-13-1	.425-.5"	±.00010"	.5"	2.18"	0.06"	4"

Metric			Dimensions			
Code No.	Range	Accuracy	Setting Ring	L	A	Extension Rod
208-06-0	2-2.5mm	0.004mm	2.5mm	12.5mm	-	-
208-07-0	2.5-3mm	0.004mm	2.5mm	12.5mm	-	-
208-08-0	3-4mm	0.004mm	4mm	22.5mm	-	-
208-09-0	4-5mm	0.004mm	5mm	22.5mm	-	-
208-10-0	5-6mm	0.004mm	6mm	22.5mm	-	-
208-11-0	6-8mm	0.004mm	6mm	53.5mm	1.5mm	100mm
208-12-0	8-10mm	0.004mm	8mm	53.5mm	1.5mm	100mm
208-13-0	10-12mm	0.004mm	10mm	53.5mm	1.5mm	100mm

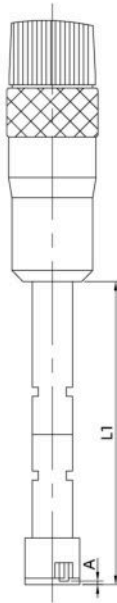


Digital Three Point Internal Micrometers (12-100mm/.5-4.0")

208 Series



208-28-0



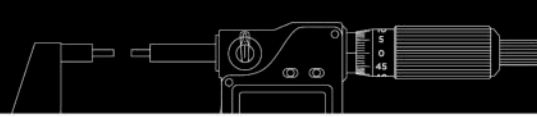
FEATURES

- Resolution: .00005"/0.001mm
- Setting ring supplied
- Measuring contact points are designed to allow measurements near to the bottom of blind holes
- Additional extensions can be added to increase the measuring depth
- Button function: On/Off, Set, ABS/INC, mm/inch
- Measuring surfaces are carbide
- Auto-Off to maximize battery life
- Protection level IP65
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5



Inch				Dimensions		
Code No.	Range	Accuracy	Setting Ring	L	A	Extension Rod
208-24-1	.5-.65"	±.00010"	.65"	3.2"	0.07"	6"
208-25-1	.65-.8"	±.00010"	.65"	3.2"	0.07"	6"
208-26-1	.8-1"	±.00010"	1"	3.6"	0.07"	6"
208-27-1	1-1.2"	±.00015"	1"	3.6"	0.07"	6"
208-28-1	1.2-1.6"	±.00015"	1.6"	3.88"	0.07"	6"
208-29-1	1.6-2"	±.00020"	1.6"	3.88"	0.07"	6"
208-30-1	2-2.5"	±.00020"	2.5"	4.56"	0.07"	6"
208-31-1	2.5-3"	±.00020"	2.5"	4.56"	0.07"	6"
208-32-1	3-3.5"	±.00020"	3.5"	4.56"	0.07"	6"
208-33-1	3.5-4"	±.00020"	3.5"	4.56"	0.07"	6"

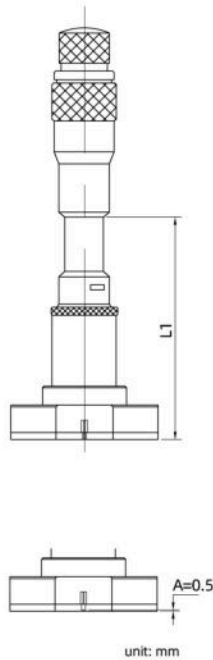
Metric				Dimensions		
Code No.	Range	Accuracy	Setting Ring	L	A	Extension Rod
208-24-0	12-16mm	0.004mm	16mm	80mm	0.5mm	150mm
208-25-0	16-20mm	0.004mm	16mm	80mm	0.5mm	150mm
208-26-0	20-25mm	0.004mm	25mm	90mm	0.5mm	150mm
208-27-0	25-30mm	0.004mm	25mm	90mm	0.5mm	150mm
208-28-0	30-40mm	0.004mm	40mm	97mm	0.5mm	150mm
208-29-0	40-50mm	0.005mm	40mm	97mm	0.5mm	150mm
208-30-0	50-63mm	0.005mm	62mm	114mm	0.5mm	150mm
208-31-0	62-75mm	0.005mm	62mm	114mm	0.5mm	150mm
208-32-0	75-88mm	0.005mm	87mm	114mm	0.5mm	150mm
208-33-0	87-100mm	0.005mm	87mm	114mm	0.5mm	150mm



Digital Three Point Internal Micrometers (100-300mm/4.0-12.0") 208 Series



208-34-0



FEATURES

- Resolution: .00005"/0.001mm
- Measuring contact points are designed to allow measurements near to the bottom of blind holes
- Additional extensions can be added to increase the measuring depth
- Measuring surfaces are carbide
- Setting ring are not included
- Button function: On/Off, Set, ABS/INC, mm/inch
- Auto-Off to maximize battery life
- Protection level IP65
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5



Inch			Optional	Dimensions	
Code No.	Range	Accuracy	Setting Ring	L1	Extension Rod
208-34-1	4-5"	±.00020"	4"	5.8"	6"
208-35-1	5-6"	±.00020"	5"	5.8"	6"
208-36-1	6-7"	±.00020"	6"	5.8"	6"
208-37-1	7-8"	±.00020"	7"	5.8"	6"
208-38-1	8-9"	±.00025"	8"	5.8"	6"
208-39-1	9-10"	±.00025"	9"	5.8"	6"
208-40-1	10-11"	±.00025"	10"	5.8"	6"
208-41-1	11-12"	±.00025"	11"	5.8"	6"

Metric			Optional	Dimensions	
Code No.	Range	Accuracy	Setting Ring	L1	Extension Rod
208-34-0	100-125mm	0.005mm	100mm	145mm	150mm
208-35-0	125-150mm	0.005mm	125mm	145mm	150mm
208-36-0	150-175mm	0.005mm	150mm	145mm	150mm
208-37-0	175-200mm	0.005mm	175mm	145mm	150mm
208-38-0	200-225mm	0.007mm	200mm	145mm	150mm
208-39-0	225-250mm	0.007mm	225mm	145mm	150mm
208-40-0	250-275mm	0.007mm	250mm	145mm	150mm
208-41-0	275-300mm	0.007mm	275mm	145mm	150mm



Three Point Internal Micrometer Sets

208 Series

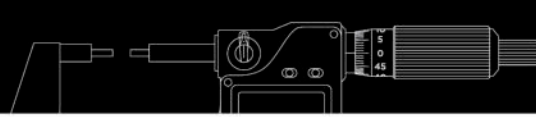


208-65-9



Inch				
Code No.	Range	Packages	Setting Rings	Extension Rod
208-61-9	.08-.12"	2 pcs 0.08-0.1", 0.1-0.12"	.1"	-
208-62-9	.12-.28"	4 pcs 0.12-0.16", 0.16"-0.2", 0.2-0.24", 0.24-0.28"	0.16", 0.24"	-
208-63-9	.275-.5"	3 pcs 0.275-0.35", 0.35-0.425", 0.425"-0.5"	0.275", 0.35", 0.5"	4"
208-64-9	.5-.8"	2 pcs 0.5-0.65", 0.65-0.8"	0.65"	6"
208-65-9	.8-2"	4 pcs 0.8-1", 1-1.2", 1.2-1.6", 1.6-2"	1", 1.6"	6"
208-66-9	2-4"	4 pcs 2-2.5", 2.5-3", 3-3.5", 3.5-4"	2.5", 3.5"	6"

Metric				
Code No.	Range	Packages	Setting Rings	Extension Rod
208-61-8	2-3mm	2 pcs 2-2.5, 2.5-3mm	2.5mm	-
208-62-8	3-6mm	3 pcs 3-4, 4-5, 5-6mm	4, 5, 6mm	-
208-63-8	6-12mm	3 pcs 6-8, 8-10, 10-12mm	6, 8, 10mm	100mm
208-64-8	12-20mm	2 pcs 12-16, 16-20mm	16mm	150mm
208-65-8	20-50mm	4 pcs 20-25, 25-30, 30-40, 40-50mm	25, 40mm	150mm
208-66-8	50-100mm	4 pcs 50-63, 62-75, 75-88, 87-100mm	62, 87mm	150mm

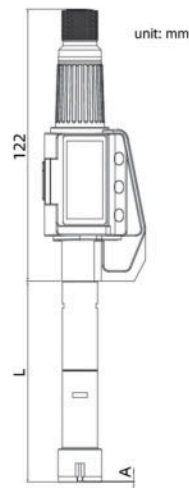


Digital Three Point Internal Micrometers

208 Series



208-25-2



FEATURES

- Resolution: .00005"/0.001mm
- Built-in wireless data transmission
- Measuring contact points are designed to allow measurements near the bottom of blind holes
- Measuring surface are carbide (12mm above)
- Additional extensions can be added to increase the measuring depth
- Setting rings for origin point setting
- Setting ring is not included for size 100mm/4" or above
- Optional accessory:
Cable data output: 900-07-0/1

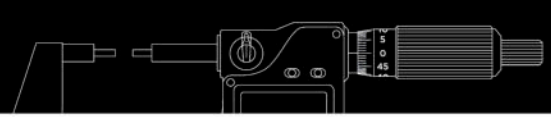


Inch		Dimensions				
Code No.	Range	Accuracy	Setting Ring	L	A	Extension Rod
208-11-3	.275-.35"	±.00010"	.35"	2.16"	.04"	4"
208-12-3	.35-.425"	±.00010"	.35"	2.16"	.06"	4"
208-13-3	.425-.5"	±.00010"	.5"	2.16"	.06"	4"
208-24-3	.5-.65"	±.00010"	.65"	3.15"	.02"	6"
208-25-3	.65-.8"	±.00010"	.65"	3.15"	.02"	6"
208-26-3	.8-1.0"	±.00010"	1.0"	3.54"	.02"	6"
208-27-3	1.0-1.2"	±.00015"	1.0"	3.54"	.02"	6"
208-28-3	1.2-1.6"	±.00015"	1.6"	4.13"	.02"	6"
208-29-3	1.6-2.0"	±.00020"	1.6"	4.13"	.02"	6"
208-30-3	2.0-2.5"	±.00020"	2.5"	5"	.02"	6"
208-31-3	2.5-3.0"	±.00020"	2.5"	5"	.02"	6"
208-32-3	3.0-3.5"	±.00020"	3.5"	5"	.02"	6"
208-33-3	3.5-4.0"	±.00020"	3.5"	5"	.02"	6"
208-34-3	4-5"	±.00020"	4"	6.14"	.04"	6"
208-35-3	5-6"	±.00020"	5"	6.14"	.04"	6"
208-36-3	6-7"	±.00020"	6"	6.14"	.04"	6"
208-37-3	7-8"	±.00020"	7"	6.14"	.04"	6"
208-38-3	8-9"	±.00025"	8"	6.14"	.04"	6"
208-39-3	9-10"	±.00025"	9"	6.14"	.04"	6"
208-40-3	10-11"	±.00025"	10"	6.14"	.04"	6"
208-41-3	11-12"	±.00025"	11"	6.14"	.04"	6"

Inch Sets				
Code No.	Range	Sets	Setting Ring	Extension Rod
208-63-3	.275-.5"	3 pcs	0.35", 0.5"	4"
		0.275-0.35", 0.35-0.425", 0.425-0.5"		
208-64-3	.5-.8"	2 pcs	0.65"	6"
		0.5-0.65", 0.65-0.8"		
208-65-3	.8-2"	4 pcs	1", 1.6"	6"
		0.8-1", 1-1.2", 1.2-1.6", 1.6-2"		
208-66-3	2-4"	4 pcs	2.5", 3.5"	6"
		2-2.5", 2.5-3", 3-3.5", 3.5-4"		

Metric		Dimensions				
Code No.	Range	Accuracy	Setting Ring	L	A	Extension Rod
208-11-2	6-8mm	0.004mm	8mm	55mm	1.0mm	100mm
208-12-2	8-10mm	0.004mm	8mm	55mm	1.5mm	100mm
208-13-2	10-12mm	0.004mm	12mm	55mm	1.5mm	100mm
208-24-2	12-16mm	0.004mm	16mm	80mm	0.5mm	150mm
208-25-2	16-20mm	0.004mm	16mm	80mm	0.5mm	150mm
208-26-2	20-25mm	0.004mm	25mm	90mm	0.5mm	150mm
208-27-2	25-30mm	0.004mm	25mm	90mm	0.5mm	150mm
208-28-2	30-40mm	0.004mm	40mm	105mm	0.5mm	150mm
208-29-2	40-50mm	0.004mm	40mm	105mm	0.5mm	150mm
208-30-2	50-63mm	0.005mm	62mm	127mm	0.5mm	150mm
208-31-2	62-75mm	0.005mm	62mm	127mm	0.5mm	150mm
208-32-2	75-88mm	0.005mm	87mm	127mm	0.5mm	150mm
208-33-2	87-100mm	0.005mm	87mm	127mm	0.5mm	150mm
208-34-2	100-125mm	0.005mm	100mm	156mm	1.0mm	150mm
208-35-2	125-150mm	0.005mm	125mm	156mm	1.0mm	150mm
208-36-2	150-175mm	0.005mm	150mm	156mm	1.0mm	150mm
208-37-2	175-200mm	0.005mm	175mm	156mm	1.0mm	150mm
208-38-2	200-225mm	0.007mm	200mm	156mm	1.0mm	150mm
208-39-2	225-250mm	0.007mm	225mm	156mm	1.0mm	150mm
208-40-2	250-275mm	0.007mm	250mm	156mm	1.0mm	150mm
208-41-2	275-300mm	0.007mm	275mm	156mm	1.0mm	150mm

Metric Sets				
Code No.	Range	Sets	Setting Ring	Extension Rod
208-63-2	6-12mm	3 pcs	8, 12mm	100mm
		6-8, 8-10, 10-12mm		
208-64-2	12-20mm	2 pcs	16mm	150mm
		12-16, 16-20mm		
208-65-2	20-50mm	4 pcs	25, 40mm	150mm
		20-25, 25-30, 30-40, 40-50mm		
208-66-2	50-100mm	4 pcs	62, 87mm	150mm
		50-63, 62-75, 75-88, 87-100mm		

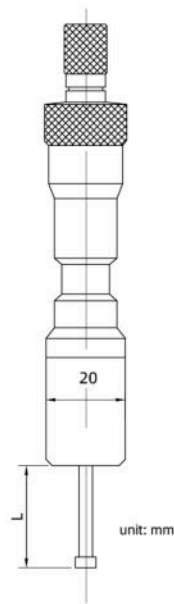


Two And Three Point Internal Micrometers (2-12mm / .08-.5")

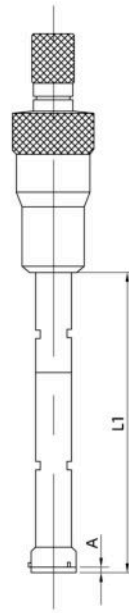
209 Series



209-09-0



Dimension: 2-6mm / .08-.24"



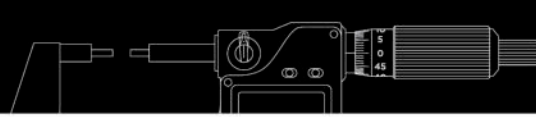
Dimension: 6-12mm / .275-.5"

FEATURES

- Graduation: .0001"/0.001mm
- Ratchet stop
- Setting ring supplied
- Measuring contact points are designed to allow measurements near to the bottom of blind holes
- Size up to 6mm / .24 inch are two measuring points; size over 6mm / .24 inch are three measuring points

Inch				Dimensions		
Code No.	Range	Accuracy	Setting Ring	L	A	Extension Rod
209-06-1	.08-.1"	±.00010"	.1"	0.5"	-	-
209-07-1	.1-.12"	±.00010"	.1"	0.5"	-	-
209-08-1	.12-.16"	±.00010"	.16"	0.9"	-	-
209-09-1	.16-.2"	±.00010"	.16"	0.9"	-	-
209-10-1	.2-.24"	±.00010"	.24"	0.9"	-	-
209-10-5	.24-.28"	±.00010"	.24"	0.9"	-	-
209-11-1	.275-.35"	±.00010"	.275"	2.18"	0.06"	4"
209-12-1	.35-.425"	±.00010"	.35"	2.18"	0.06"	4"
209-13-1	.425-.5"	±.00010"	.5"	2.18"	0.06"	4"

Metric				Dimensions		
Code No.	Range	Accuracy	Setting Ring	L	A	Extension Rod
209-06-0	2-2.5mm	0.004mm	2.5mm	12.5mm	-	-
209-07-0	2.5-3mm	0.004mm	2.5mm	12.5mm	-	-
209-08-0	3-4mm	0.004mm	4mm	22.5mm	-	-
209-09-0	4-5mm	0.004mm	5mm	22.5mm	-	-
209-10-0	5-6mm	0.004mm	6mm	22.5mm	-	-
209-11-0	6-8mm	0.004mm	6mm	54.5mm	1.5mm	100mm
209-12-0	8-10mm	0.004mm	8mm	54.5mm	1.5mm	100mm
209-13-0	10-12mm	0.004mm	10mm	54.5mm	1.5mm	100mm

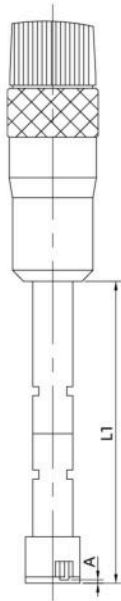


Three Point Internal Micrometers (12-100mm/.5-4.0")

209 Series



209-26-0

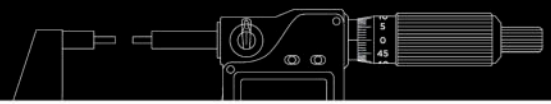


FEATURES

- Graduation: .0002"/0.005mm
- Ratchet stop
- Setting ring supplied
- Measuring contact points are designed to allow measurements near to the bottom of blind holes
- Additional extensions can be added to increase the measuring depth
- Measuring surfaces are carbide

Inch		Dimensions				
Code No.	Range	Accuracy	Setting Ring	L	A	Extension Rod
209-24-1	.5-.65"	±.00010"	.65"	3.2"	0.02"	6"
209-25-1	.65-.8"	±.00010"	.65"	3.2"	0.02"	6"
209-26-1	.8-1"	±.00010"	1"	3.6"	0.02"	6"
209-27-1	1-1.2"	±.00015"	1"	3.6"	0.02"	6"
209-28-1	1.2-1.6"	±.00015"	1.6"	3.88"	0.02"	6"
209-29-1	1.6-2"	±.00020"	1.6"	3.88"	0.02"	6"
209-30-1	2-2.5"	±.00020"	2.5"	4.56"	0.02"	6"
209-31-1	2.5-3"	±.00020"	2.5"	4.56"	0.02"	6"
209-32-1	3-3.5"	±.00020"	3.5"	4.56"	0.02"	6"
209-33-1	3.5-4"	±.00020"	3.5"	4.56"	0.02"	6"

Metric		Dimensions				
Code No.	Range	Accuracy	Setting Ring	L	A	Extension Rod
209-24-0	12-16mm	0.004mm	16mm	80mm	0.5mm	150mm
209-25-0	16-20mm	0.004mm	16mm	80mm	0.5mm	150mm
209-26-0	20-25mm	0.004mm	25mm	90mm	0.5mm	150mm
209-27-0	25-30mm	0.004mm	25mm	90mm	0.5mm	150mm
209-28-0	30-40mm	0.004mm	40mm	97mm	0.5mm	150mm
209-29-0	40-50mm	0.005mm	40mm	97mm	0.5mm	150mm
209-30-0	50-63mm	0.005mm	62mm	114mm	0.5mm	150mm
209-31-0	62-75mm	0.005mm	62mm	114mm	0.5mm	150mm
209-32-0	75-88mm	0.005mm	87mm	114mm	0.5mm	150mm
209-33-0	87-100mm	0.005mm	87mm	114mm	0.5mm	150mm

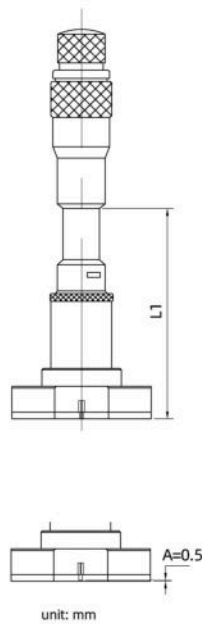


Three Point Internal Micrometers (100-300mm/4.0-12.0")

209 Series



209-34-0



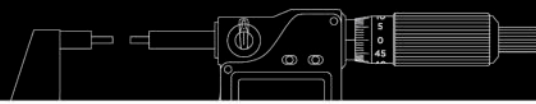
unit: mm

FEATURES

- Graduation: .0002"/0.005mm
- Ratchet stop
- Measuring contact points are designed to allow measurements near to the bottom of blind holes
- Additional extensions can be added to increase the measuring depth
- Measuring surfaces are carbide
- Setting ring are not included

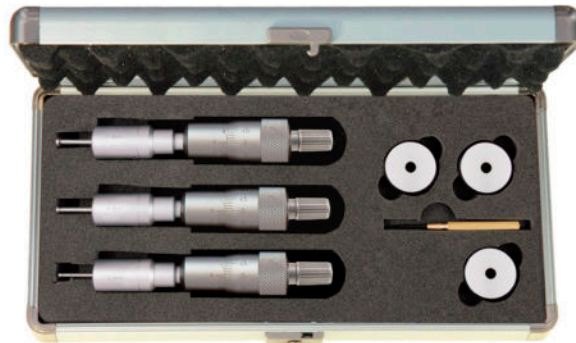
Inch			Optional	Dimensions	
Code No.	Range	Accuracy	Setting Ring	L1	Extension Rod
209-34-1	4-5"	±.00020"	4"	5.8"	6"
209-35-1	5-6"	±.00020"	5"	5.8"	6"
209-36-1	6-7"	±.00020"	6"	5.8"	6"
209-37-1	7-8"	±.00020"	7"	5.8"	6"
209-38-1	8-9"	±.00025"	8"	5.8"	6"
209-39-1	9-10"	±.00025"	9"	5.8"	6"
209-40-1	10-11"	±.00025"	10"	5.8"	6"
209-41-1	11-12"	±.00025"	11"	5.8"	6"

Metric			Optional	Dimensions	
Code No.	Range	Accuracy	Setting Ring	L1	Extension Rod
209-34-0	100-125mm	0.005mm	100mm	145mm	150mm
209-35-0	125-150mm	0.005mm	125mm	145mm	150mm
209-36-0	150-175mm	0.005mm	150mm	145mm	150mm
209-37-0	175-200mm	0.005mm	175mm	145mm	150mm
209-38-0	200-225mm	0.007mm	200mm	145mm	150mm
209-39-0	225-250mm	0.007mm	225mm	145mm	150mm
209-40-0	250-275mm	0.007mm	250mm	145mm	150mm
209-41-0	275-300mm	0.007mm	275mm	145mm	150mm



Three Point Internal Micrometer Sets

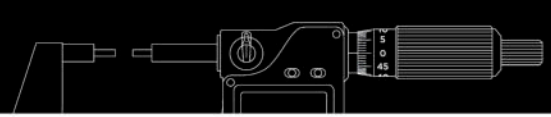
209 Series



209-62-8

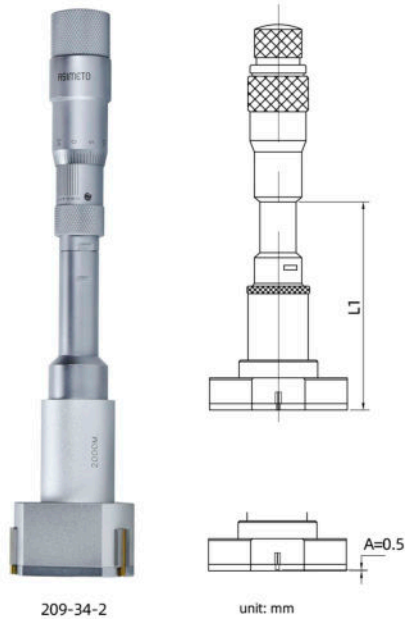
Inch				
Code No.	Range	Packages	Setting Rings	Extension Rod
209-61-9	.08-.12"	2 pcs 0.08-0.1", 0.1-0.12"	.1"	-
209-62-9	.12-.28"	4 pcs 0.12-0.16", 0.16-0.2", 0.2-0.24", 0.24-0.28"	0.16", 0.24"	-
209-63-9	.275-.5"	3 pcs 0.275-0.35", 0.35-0.425", 0.425-0.5"	0.275", 0.35", 0.5"	4"
209-64-9	.5-.8"	2 pcs 0.5-0.65", 0.65-0.8"	0.65"	6"
209-65-9	.8-2"	4 pcs 0.8-1", 1-1.2", 1.2-1.6", 1.6-2"	1", 1.6"	6"
209-66-9	2-4"	4 pcs 2-2.5", 2.5-3", 3-3.5", 3.5-4"	2.5", 3.5"	6"

Metric				
Code No.	Range	Packages	Setting Rings	Extension Rod
209-61-8	2-3mm	2 pcs 2-2.5, 2.5-3mm	2.5mm	-
209-62-8	3-6mm	3 pcs 3-4, 4-5, 5-6mm	4, 5, 6mm	-
209-63-8	6-12mm	3 pcs 6-8, 8-10, 10-12mm	6, 8, 10mm	100mm
209-64-8	12-20mm	2 pcs 12-16, 16-20mm	16mm	150mm
209-65-8	20-50mm	4 pcs 20-25, 25-30, 30-40, 40-50mm	25, 40mm	150mm
209-66-8	50-100mm	4 pcs 50-63, 62-75, 75-88, 87-100mm	62, 87mm	150mm



Three Point Internal Micrometers

209 Series



209-34-2

unit: mm

FEATURES

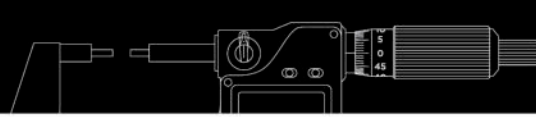
- Graduation: .0002"/0.005mm
- Ratchet stop
- Setting ring supplied
- Measuring contact points are designed to allow measurements near to the bottom of blind holes
- Additional extensions can be added to increase the measuring depth
- Measuring surfaces are carbide
- Setting ring is not included for size 100mm / 4" or above

Inch		Dimensions			
Code No.	Range	Accuracy	Setting Ring	L1	Extension Rod
209-11-3	.275-.35"	±.00010"	.35"	2.16"	4"
209-12-3	.35-.425"	±.00010"	.35"	2.16"	4"
209-13-3	.425-.5"	±.00010"	.5"	2.16"	4"
209-24-3	.5-.65"	±.00010"	.65"	3.15"	6"
209-25-3	.65-.8"	±.00010"	.65"	3.15"	6"
209-26-3	.8-1.0"	±.00010"	1.0"	3.54"	6"
209-27-3	1.0-1.2"	±.00015"	1.0"	3.54"	6"
209-28-3	1.2-1.6"	±.00015"	1.6"	4.13"	6"
209-29-3	1.6-2.0"	±.00020"	1.6"	4.13"	6"
209-30-3	2.0-2.5"	±.00020"	2.5"	5"	6"
209-31-3	2.5-3.0"	±.00020"	2.5"	5"	6"
209-32-3	3.0-3.5"	±.00020"	3.5"	5"	6"
209-33-3	3.5-4.0"	±.00020"	3.5"	5"	6"
209-34-3	4-5"	±.00020"	4"	6.14"	6"
209-35-3	5-6"	±.00020"	5"	6.14"	6"
209-36-3	6-7"	±.00020"	6"	6.14"	6"
209-37-3	7-8"	±.00020"	7"	6.14"	6"
209-38-3	8-9"	±.00025"	8"	6.14"	6"
209-39-3	9-10"	±.00025"	9"	6.14"	6"
209-40-3	10-11"	±.00025"	10"	6.14"	6"
209-41-3	11-12"	±.00025"	11"	6.14"	6"

Metric		Dimensions			
Code No.	Range	Accuracy	Setting Ring	L1	Extension Rod
209-11-2	6-8mm	0.004mm	8mm	55mm	100mm
209-12-2	8-10mm	0.004mm	8mm	55mm	100mm
209-13-2	10-12mm	0.004mm	12mm	55mm	100mm
209-24-2	12-16mm	0.004mm	16mm	80mm	150mm
209-25-2	16-20mm	0.004mm	16mm	80mm	150mm
209-26-2	20-25mm	0.004mm	25mm	90mm	150mm
209-27-2	25-30mm	0.004mm	25mm	90mm	150mm
209-28-2	30-40mm	0.004mm	40mm	105mm	150mm
209-29-2	40-50mm	0.004mm	40mm	105mm	150mm
209-30-2	50-63mm	0.005mm	62mm	127mm	150mm
209-31-2	62-75mm	0.005mm	62mm	127mm	150mm
209-32-2	75-88mm	0.005mm	87mm	127mm	150mm
209-33-2	87-100mm	0.005mm	87mm	127mm	150mm
209-34-2	100-125mm	0.005mm	100mm	156mm	150mm
209-35-2	125-150mm	0.005mm	125mm	156mm	150mm
209-36-2	150-175mm	0.005mm	150mm	156mm	150mm
209-37-2	175-200mm	0.005mm	175mm	156mm	150mm
209-38-2	200-225mm	0.007mm	200mm	156mm	150mm
209-39-2	225-250mm	0.007mm	225mm	156mm	150mm
209-40-2	250-275mm	0.007mm	250mm	156mm	150mm
209-41-2	275-300mm	0.007mm	275mm	156mm	150mm

Inch Sets				
Code No.	Range	Packages	Setting Ring	Extension Rod
209-63-3	.275-.5"	3 pcs 0.275-0.35", 0.35-0.425", 0.425-0.5"	0.35", 0.5"	4"
209-64-3	.5-.8"	2 pcs 0.5-0.65", 0.65-0.8"	0.65"	6"
209-65-3	.8-2"	4 pcs 0.8-1", 1-1.2", 1.2-1.6", 1.6-2"	1", 1.6"	6"
209-66-3	2-4"	4 pcs 2-2.5", 2.5-3", 3-3.5", 3.5-4"	2.5", 3.5"	6"

Metric Sets				
Code No.	Range	Packages	Setting Ring	Extension Rod
209-63-2	6-12mm	3 pcs 6-8, 8-10, 10-12mm	8, 12mm	100mm
209-64-2	12-20mm	2 pcs 12-16, 16-20mm	16mm	150mm
209-65-2	20-50mm	4 pcs 20-25, 25-30, 30-40, 40-50mm	25, 40mm	150mm
209-66-2	50-100mm	4 pcs 50-63, 62-75, 75-88, 87-100mm	62, 87mm	150mm



Digital Inside Micrometers

207 Series



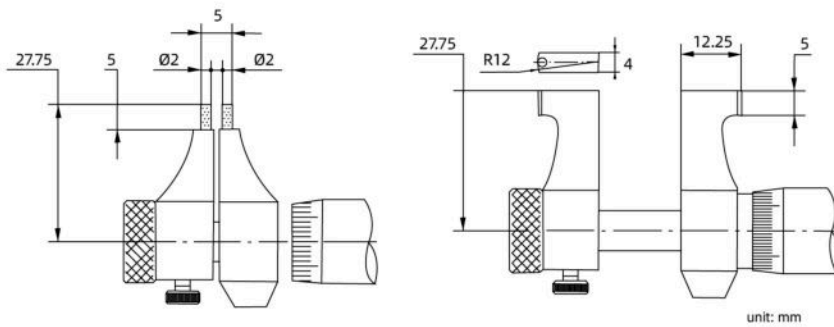
207-01-0



207-01-1

FEATURES

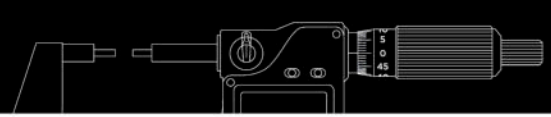
- Resolution: .00005"/0.001mm
- Designed for the measurement of intricate internal characteristics
- Solid carbide pins for measurement contact points
- Satin chrome finished
- .2-1.2"/5-30mm and 1-2"/25-50mm range are supplied with setting ring
- Button function: On/Off, Set, ABS/INC, mm/inch
- Carbide tipped measuring faces
- Auto-Off to maximize battery life
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5



unit: mm

Inch			
Code No.	Range	Resolution	Accuracy
207-01-1	.2-1.2"	.00005"	±.00010"
207-02-1	1-2"	.00005"	±.00010"
207-03-1	2-3"	.00005"	±.00010"
207-04-1	3-4"	.00005"	±.00015"
207-05-1	4-5"	.00005"	±.00015"
207-06-1	5-6"	.00005"	±.00015"
207-07-1	6-7"	.00005"	±.00020"
207-08-1	7-8"	.00005"	±.00020"

Metric			
Code No.	Range	Resolution	Accuracy
207-01-0	5-30mm	0.001mm	±0.003mm
207-02-0	25-50mm	0.001mm	±0.003mm
207-03-0	50-75mm	0.001mm	±0.004mm
207-04-0	75-100mm	0.001mm	±0.004mm
207-05-0	100-125mm	0.001mm	±0.005mm
207-06-0	125-150mm	0.001mm	±0.005mm
207-07-0	150-175mm	0.001mm	±0.005mm
207-08-0	175-200mm	0.001mm	±0.005mm

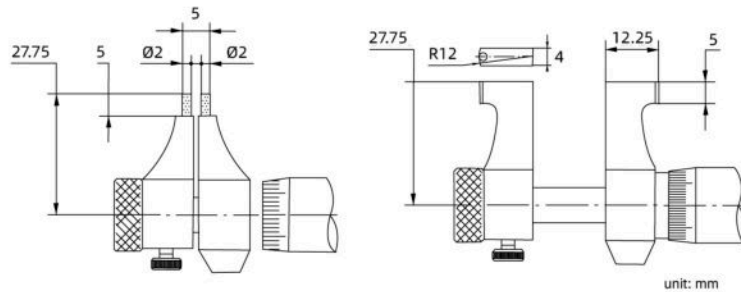


Inside Micrometers

203 Series



203-02-0



unit: mm

FEATURES

- Graduation: .001"/0.01mm
- Designed for the measurement of intricate internal characteristics
- .2-1.2"/5-30mm and 1-2"/25-50mm range are supplied with setting ring

Inch			
Code No.	Range	Graduation	Accuracy
203-01-1	.2-1.2"	.001"	±.00010"
203-02-1	1-2"	.001"	±.00010"
203-03-1	2-3"	.001"	±.00010"
203-04-1	3-4"	.001"	±.00015"
203-05-1	4-5"	.001"	±.00015"
203-06-1	5-6"	.001"	±.00015"
203-07-1	6-7"	.001"	±.00020"
203-08-1	7-8"	.001"	±.00020"

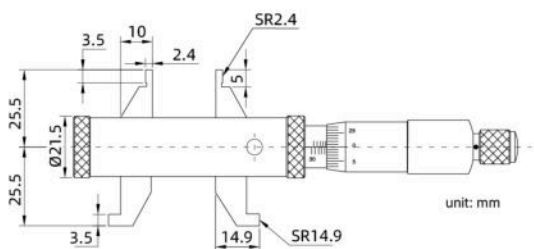
Metric			
Code No.	Range	Graduation	Accuracy
203-01-0	5-30mm	0.01mm	0.005mm
203-02-0	25-50mm	0.01mm	0.006mm
203-03-0	50-75mm	0.01mm	0.007mm
203-04-0	75-100mm	0.01mm	0.008mm
203-05-0	100-125mm	0.01mm	0.009mm
203-06-0	125-150mm	0.01mm	0.009mm
203-07-0	150-175mm	0.01mm	0.010mm
203-08-0	175-200mm	0.01mm	0.010mm

Dual Measurement Inside Micrometers

206 Series



206-01-0

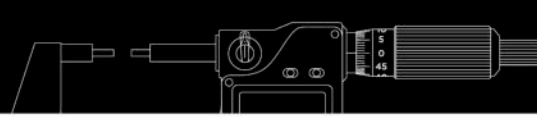


unit: mm

FEATURES

- Graduation: .001"/0.01mm
- For all kinds of inside measurements
- Large measuring range with two sides of calipers
- Bi-directional graduation for easy reading in both directions
- Supplied with setting ring (Ø1.2"/Ø30mm dia.)

Code No.	Lower Range	Upper Range	Graduation	Accuracy
Inch				
206-01-1	.2-1.2"	1.2-2.2"	.001"	±.00010"
Metric				
206-01-0	5-30mm	30-55mm	0.01mm	0.005mm



IP65 Digital Tubular Inside Micrometers

240 Series

NEW



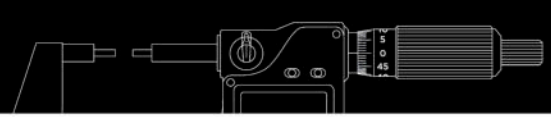
FEATURES

- Resolution: .00005"/0.001mm
- Button function: On/Off, Set, ABS/INC, mm/inch
- Accuracy: Metric $(3+n+L/50) \mu m$
Inch $[0.00005 (3+L/2)]''$
n=number of rod, L=Maximum measuring Length(mm)/(inch)
- Offers a wide range of ID measurements by combining extension rods with the micrometer head
- Supplied with a standard caliper gauge for zero setting
- The combining of extension rod provides a wide measuring range
- Carbide measuring faces
- Protection level IP65
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5



Inch		
Code No.	Range	Extension
240-70-1	6-7"	-
240-71-1	6-40"	1", 2" (2 pcs), 4", 8", 16"
240-72-1	6-60"	1", 2" (2 pcs), 4" (2 pcs), 8", 16" (2 pcs)
240-73-1	6-80"	1", 2" (2 pcs), 4", 8" (2 pcs), 16" (3 pcs)

Metric		
Code No.	Range	Extension
240-70-0	150-175mm	-
240-71-0	150-1000mm	25mm, 50mm (2 pcs), 100mm, 200mm, 400mm
240-72-0	150-1500mm	25mm, 50mm (2 pcs), 100mm (2 pcs), 200mm, 400mm (2 pcs)
240-73-0	150-2000mm	25mm, 50mm (2 pcs), 100mm, 200mm (2 pcs), 400mm (3 pcs)



Inside Micrometers (Single Rod)

240 Series



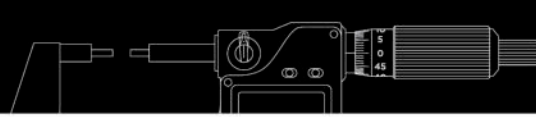
240-25-0

FEATURES

- Graduation: 0.001"/0.01mm
- Carbide measuring faces

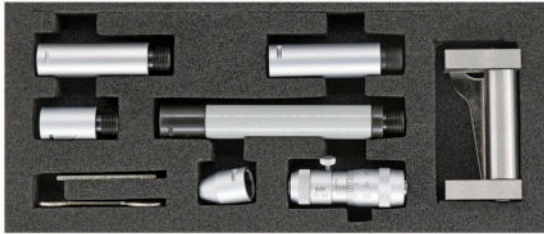
Inch		
Code No.	Range	Accuracy
240-21-1	2-3"	.00020"
240-22-1	3-4"	.00020"
240-23-1	4-5"	.00020"
240-24-1	5-6"	.00020"
240-25-1	6-7"	.00025"
240-26-1	7-8"	.00025"
240-27-1	8-9"	.00030"
240-28-1	9-10"	.00030"
240-29-1	10-11"	.00035"
240-30-1	11-12"	.00035"
240-31-1	12-13"	.00035"
240-32-1	13-14"	.00035"
240-33-1	14-15"	.00040"
240-34-1	15-16"	.00040"
240-35-1	16-17"	.00040"
240-36-1	17-18"	.00040"
240-37-1	18-19"	.00040"
240-38-1	19-20"	.00040"
240-39-1	20-21"	.00040"
240-40-1	21-22"	.00040"
240-41-1	22-23"	.00040"
240-42-1	23-24"	.00045"
240-43-1	24-25"	.00045"
240-44-1	25-26"	.00045"
240-45-1	26-27"	.00050"
240-46-1	27-28"	.00050"
240-47-1	28-29"	.00050"
240-48-1	29-30"	.00055"
240-49-1	30-31"	.00055"
240-50-1	31-32"	.00055"
240-51-1	32-33"	.00055"
240-52-1	33-34"	.00055"
240-53-1	34-35"	.00055"
240-54-1	35-36"	.00060"
240-55-1	36-37"	.00060"
240-56-1	37-38"	.00060"
240-57-1	38-39"	.00065"
240-58-1	39-40"	.00065"

Metric		
Code No.	Range	Accuracy
240-21-0	50-75mm	0.005mm
240-22-0	75-100mm	0.005mm
240-23-0	100-125mm	0.006mm
240-24-0	125-150mm	0.006mm
240-25-0	150-175mm	0.007mm
240-26-0	175-200mm	0.007mm
240-27-0	200-225mm	0.008mm
240-28-0	225-250mm	0.008mm
240-29-0	250-275mm	0.009mm
240-30-0	275-300mm	0.009mm
240-31-0	300-325mm	0.009mm
240-32-0	325-350mm	0.009mm
240-33-0	350-375mm	0.010mm
240-34-0	375-400mm	0.010mm
240-35-0	400-425mm	0.010mm
240-36-0	425-450mm	0.010mm
240-37-0	450-475mm	0.011mm
240-38-0	475-500mm	0.011mm
240-39-0	500-525mm	0.011mm
240-40-0	525-550mm	0.011mm
240-41-0	550-575mm	0.011mm
240-42-0	575-600mm	0.012mm
240-43-0	600-625mm	0.012mm
240-44-0	625-650mm	0.012mm
240-45-0	650-675mm	0.013mm
240-46-0	675-700mm	0.013mm
240-47-0	700-725mm	0.013mm
240-48-0	725-750mm	0.014mm
240-49-0	750-775mm	0.014mm
240-50-0	775-800mm	0.014mm
240-51-0	800-825mm	0.015mm
240-52-0	825-850mm	0.015mm
240-53-0	850-875mm	0.015mm
240-54-0	875-900mm	0.016mm
240-55-0	900-925mm	0.016mm
240-56-0	925-950mm	0.016mm
240-57-0	950-975mm	0.017mm
240-58-0	975-1000mm	0.017mm



Tubular Inside Micrometers

240 Series



240-01-0

FEATURES

- Graduation: .001"/0.01mm
- Accuracy: Metric $(3+n+L/50) \mu\text{m}$
Inch $[0.00005 (3+L/2)]''$
n=number of rod, L=Maximum measuring Length (mm)/(inch)
- Offers a wide range of ID measurements by combining extension rods with the micrometer head
- Supplied with a standard caliper gauge for zero setting
- The combining of Extension Rod provides a wide measuring range
- Carbide measuring faces
- Diameter of Extension Rod: $\varnothing 15.5\text{mm}$

Inch			
Code No.	Range	Extension Rod	Note
240-11-1	2-4"	.5", 1"	Includes .50", .001" Mic. Head
240-01-1	2-12"	.5", 1", 2" (2 pcs), 4"	Includes .50", .001" Mic. Head
240-12-1	2-20"	.5", 1", 2" (2 pcs), 4", 8"	Includes .50", .001" Mic. Head
240-02-1	2-40"	.5", 1", 2", 4" (2 pcs), 6", 8", 12"	Includes .50", .001" Mic. Head
240-03-1	20-60"	.5", 1", 2", 4" (2 pcs), 6", 8" (2 pcs), 12" (2 pcs)	Includes .50", .001" Mic. Head
169-55-1	2-2.5"	-	Replacement Mic Head .001"

Metric			
Code No.	Range	Extension Rod	Note
240-11-0	50-100mm	13, 25mm	Includes 13mm, 0.01mm Mic. Head
240-12-0	50-500mm	13, 25, 50 (2 pcs), 100, 200mm	Includes 13mm, 0.01mm Mic. Head
240-02-0	50-1000mm	13, 25, 50, 100 (2 pcs), 150, 200, 300mm	Includes 13mm, 0.01mm Mic. Head
240-03-0	50-1500mm	13, 25, 50, 100 (2 pcs), 150, 200 (2 pcs), 300mm (2 pcs)	Includes 13mm, 0.01mm Mic. Head
169-55-0	50-63mm	-	Replacement 0.01mm Mic. Head

Micrometer Stands

109 Series



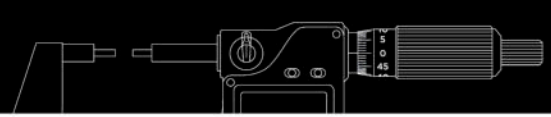
Code No.: 109-01-0
Painted Steel Base



Code No.: 109-02-1
Painted Cast-Iron Base

FEATURES

- These stands are designed to allow bench top use with hand micrometers

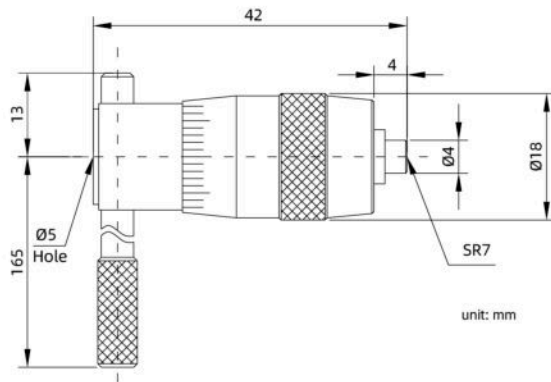


Inside Micrometers - Interchangeable Rod Type

242 Series



242-40-1



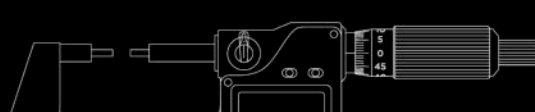
FEATURES

- Graduation: .001"/0.01mm
- Accuracy: Metric (6 + L/50) μ m
Inch [0.0003 + 0.00005 (L/2)]"
L=Maximum measuring Length (mm)/(inch)
- Rods marked with its measuring range
- All contact points hardened for extra long tool life
- With locking clamp
- Zero point can be readjusted by rotating the micrometer head sleeve
- Carbide tipped measuring faces

Inch						
Code No.	Range	Head Travel	Graduation	Spacing Collar	Diameter Of Rods	Note
242-02-1	1-2"	.25"	.001"	-	Ø.248"	1" Mic Head & 2 Rods
242-08-1	2-8"	.50"	.001"	.500"	Ø.248"	2" Mic Head & 6 Rods
242-12-1	2-12"	.50"	.001"	.500"	Ø.248"	2" Mic Head & 10 Rods
242-20-1	8-20"	1.00"	.001"	1", 2"	Ø.355"	8" Mic Head & 3 Rods
242-40-1	8-40"	1.00"	.001"	1", 2"	Ø.355"	8" Mic Head & 8 Rods

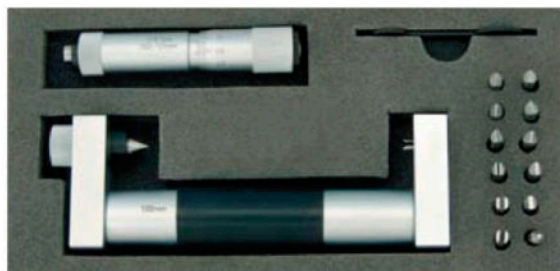
Metric						
Code No.	Range	Head Travel	Graduation	Spacing Collar	Diameter Of Rods	Note
242-02-0	25-50mm	7mm	0.01mm	-	Ø6.3mm	25mm Mic Head & 2 Rods
242-08-0	50-200mm	13mm	0.01mm	13mm	Ø6.3mm	50mm Mic Head & 6 Rods
242-12-0	50-300mm	13mm	0.01mm	13mm	Ø6.3mm	50mm Mic Head & 10 Rods
242-20-0	200-500mm	25mm	0.01mm	25mm, 50mm	Ø9mm	200mm Mic Head & 3 Rods
242-40-0	200-1000mm	25mm	0.01mm	25mm, 50mm	Ø9mm	200mm Mic Head & 8 Rods

Note: Individual rods are matched with micrometer and should not be interchanged with other sets



Inside Micrometers With Interchangeable Anvils

243 Series



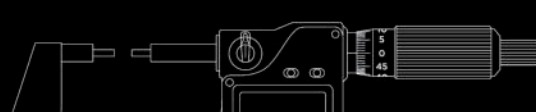
243-04-0

FEATURES

- Graduation: 0.001"/0.01mm
- 60° or 55° V-shaped
- Anvil-tail dimensions: Ø5x15mm
- Supplied with a standard caliper gauge for zero setting
- Optional parts:
Cone-shaped anvils (interchangeable)
Steel-ball tipped anvils (interchangeable)
for internal gears over-pin diameter measurement

Inch		
Code No.	Range	Accuracy
243-04-1	3-4"	±.00020"
243-05-1	4-5"	±.00020"
243-06-1	5-6"	±.00020"
243-07-1	6-7"	±.00020"
243-08-1	7-8"	±.00020"
243-09-1	8-9"	±.00020"
243-10-1	9-10"	±.00030"
243-11-1	10-11"	±.00030"
243-12-1	11-12"	±.00030"

Metric		
Code No.	Range	Accuracy
243-04-0	75-100mm	0.003mm
243-05-0	100-125mm	0.003mm
243-06-0	125-150mm	0.003mm
243-07-0	150-175mm	0.003mm
243-08-0	175-200mm	0.004mm
243-09-0	200-225mm	0.004mm
243-10-0	225-250mm	0.004mm
243-11-0	250-275mm	0.004mm
243-12-0	275-300mm	0.005mm



Digital Depth Micrometers

205 Series



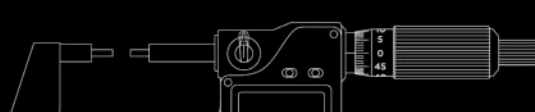
FEATURES

- Resolution: .00005"/0.001mm
- Micrometers head accuracy (0-25mm / 0-1"):
Metric: $\pm 0.003\text{mm}$
Inch: $\pm 0.0001"$
- Measuring inserts accuracy:
Metric: $\pm (2+L/75) \mu\text{m}$
Inch: $\pm [0.0001+0.00005(L/3)]"$
L=Maximum measuring Length (mm)/(inch)
- The integrity of the measurements are maintained throughout the total range of the measuring rods. However the measuring rods must be kept as a set and may not be interchangeable with other depth micrometers sets
- Both flat and spherical depth rod sets are available
- Button function: On/Off, Set, ABS/INC, mm/inch
- Auto-Off to maximize battery life
- Setting standards are included (except 0-25mm/0-1")
- Protection level IP65
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5



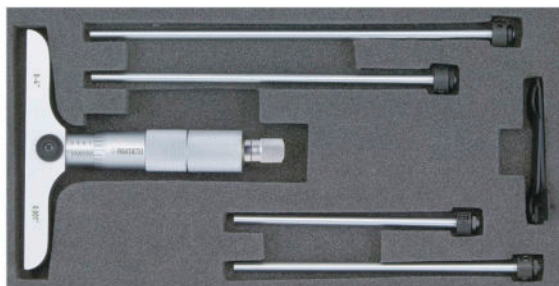
Flat End	Spherical End	Inch		
Code No.	Code No.	Range	Base Length	Rods
205-02-1	205-52-1	0-2"	2.5"	2 pcs
205-04-1	205-54-1	0-4"	2.5"	4 pcs
205-06-1	205-56-1	0-6"	2.5"	6 pcs
205-12-1	205-62-1	0-12"	2.5"	12 pcs
205-04-3	205-54-3	0-4"	4"	4 pcs
205-06-3	205-56-3	0-6"	4"	6 pcs
205-12-3	205-62-3	0-12"	4"	12 pcs

Flat End	Spherical End	Metric		
Code No.	Code No.	Range	Base Length	Rods
205-02-0	205-52-0	0-50mm	63mm	2 pcs
205-04-0	205-54-0	0-100mm	63mm	4 pcs
205-06-0	205-56-0	0-150mm	63mm	6 pcs
205-12-0	205-62-0	0-300mm	63mm	12 pcs
205-04-2	205-54-2	0-100mm	101.5mm	4 pcs
205-06-2	205-56-2	0-150mm	101.5mm	6 pcs
205-12-2	205-62-2	0-300mm	101.5mm	12 pcs



Depth Micrometers

201 Series



201-04-3

FEATURES

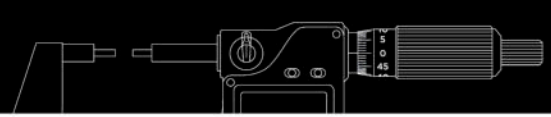
- Graduation: .001"/0.01mm
- Micrometers head accuracy: (0-25mm/0-1")
Metric: $\pm 0.003\text{mm}$
Inch: $\pm 0.0001"$
- Measuring inserts accuracy:
Metric: $\pm (2+L/75) \mu\text{m}$
Inch: $\pm [0.0001 + 0.00005(L/3)]"$
L=Maximum measuring Length (mm) / (inch)
- The integrity of the measurements are main- tained throughout the total range of the measuring rods. However the measuring rods must be kept as a set and may not be interchangeable with other depth micrometers sets
- Both flat and spherical depth rod sets are available
- Ratchet stop

Flat End	Spherical End	Inch	Run Through Interchangeable Rods	
Code No.	Code No.	Range	Base Length	Rods
201-02-1	201-52-1	0-2"	2.5"	2 pcs
201-04-1	201-54-1	0-4"	2.5"	4 pcs
201-06-1	201-56-1	0-6"	2.5"	6 pcs
201-12-1	201-62-1	0-12"	2.5"	12 pcs
201-04-3	201-54-3	0-4"	4"	4 pcs
201-06-3	201-56-3	0-6"	4"	6 pcs
201-12-3	201-62-3	0-12"	4"	12 pcs

Flat End	Spherical End	Inch	Half Base	
Code No.	Code No.	Range	Base Length	Rods
201-04-7	-	0-4"	2.25"	4 pcs
201-06-7	-	0-6"	2.25"	6 pcs

Flat End	Spherical End	Metric	Run Through Interchangeable Rods	
Code No.	Code No.	Range	Base Length	Rods
201-02-0	201-52-0	0-50mm	63mm	2 pcs
201-04-0	201-54-0	0-100mm	63mm	4 pcs
201-06-0	201-56-0	0-150mm	63mm	6 pcs
201-12-0	201-62-0	0-300mm	63mm	12 pcs
201-04-2	201-54-2	0-100mm	101.5mm	4 pcs
201-06-2	201-56-2	0-150mm	101.5mm	6 pcs
201-12-2	201-62-2	0-300mm	101.5mm	12 pcs

Flat End	Spherical End	Metric	Half Base	
Code No.	Code No.	Range	Base Length	Rods
201-04-6	-	0-100mm	57mm	4 pcs
201-06-6	-	0-150mm	57mm	6 pcs



Groove Micrometers

163 Series



163-01-0



163-02-2



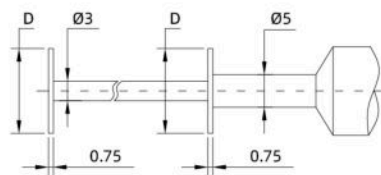
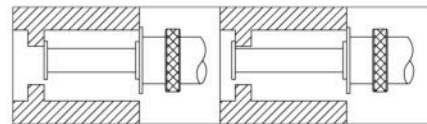
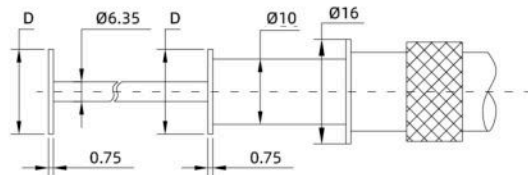
163-61-0



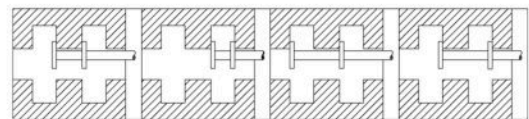
163-62-2

FEATURES

- Graduation: .001"/0.01mm
- Non-rotating spindle with bi-directional ratchet stop
- Contact faces allow for the measurement of both internal and external grooves, width and flank
- Individual scale readings are provided for inside and outside measurements

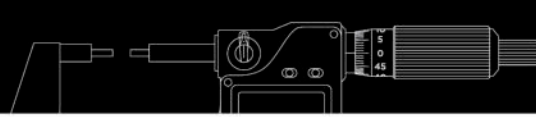


unit: mm



Without Measuring Force	Two-directional Measuring Force	Inch			
Code No.	Code No.	Flange Dia.	Outside Range	Inside Range	Accuracy
163-01-1	163-61-1	6.5mm	0-1"	.06-1.05"	±.001"
163-01-3	163-61-3	13mm	0-1"	.06-1.05"	±.001"
163-02-3	163-62-3	13mm	1-2"	1.05-2.05"	±.001"
163-03-3	163-63-3	13mm	2-3"	2.05-3.05"	±.001"
163-04-3	163-64-3	13mm	3-4"	3.05-4.05"	±.001"

Without Measuring Force	Two-Directional Measuring Force	Metric			
Code No.	Code No.	Flange Dia.	Outside Range	Inside Range	Accuracy
163-01-0	163-61-0	6.5mm	0-25mm	1.6-26.5mm	0.01mm
163-01-2	163-61-2	13mm	0-25mm	1.6-26.5mm	0.01mm
163-02-2	163-62-2	13mm	25-50mm	26.5-51.5mm	0.01mm
163-03-2	163-63-2	13mm	50-75mm	51.5-76.5mm	0.01mm
163-04-2	163-64-2	13mm	75-100mm	76.5-101.5mm	0.01mm

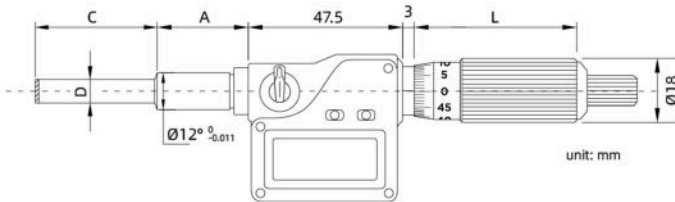


Digital Micrometer Heads

165 Series



165-01-0



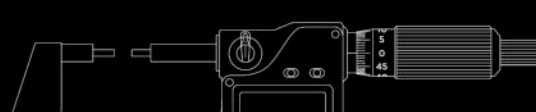
FEATURES

- Resolution:
Digital reading: .00005"/0.001mm
- Protection level IP65
- Button function: On/Off, Set, ABS/INC, mm/inch
- Carbide tipped measuring faces
- Auto-Off to maximize battery life
- Setting standards are included (except 0-25mm/0-1")
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5



Inch				Dimensions				
Code No.	Range	Accuracy	Measuring Face	Clamp Nut	D	A	C	L
165-01-1	0-1"	±.00010"	Flat & Carbide tipped	W/O	Ø.256"	0.689"	1.122"	1.850"
165-01-3	0-1"	±.00010"	Spherical	W/O	Ø.256"	0.689"	1.122"	1.850"
165-01-5	0-1"	±.00010"	With non-rotating device	W/O	Ø.256"	0.689"	1.122"	1.850"
165-61-1	0-1"	±.00010"	Flat & Carbide tipped	With	Ø.256"	0.689"	1.122"	1.850"
165-61-3	0-1"	±.00010"	Spherical	With	Ø.256"	0.689"	1.122"	1.850"
165-61-5	0-1"	±.00010"	With non-rotating device	With	Ø.256"	0.689"	1.122"	1.850"
165-02-1	0-2"	±.00010"	Flat & Carbide tipped	W/O	Ø.315"	1.398"	2.087"	2.815"
165-02-3	0-2"	±.00010"	Spherical	W/O	Ø.315"	1.398"	2.087"	2.815"

Metric				Dimensions				
Code No.	Range	Accuracy	Measuring Face	Clamp Nut	D	A	C	L
165-01-0	0-25mm	±0.002mm	Flat & Carbide tipped	W/O	Ø6.5mm	17.5mm	28.5mm	47mm
165-01-2	0-25mm	±0.002mm	Spherical	W/O	Ø6.5mm	17.5mm	28.5mm	47mm
165-01-4	0-25mm	±0.002mm	With non-rotating device	W/O	Ø6.5mm	17.5mm	28.5mm	47mm
165-61-0	0-25mm	±0.002mm	Flat & Carbide tipped	With	Ø6.5mm	17.5mm	28.5mm	47mm
165-61-2	0-25mm	±0.002mm	Spherical	With	Ø6.5mm	17.5mm	28.5mm	47mm
165-61-4	0-25mm	±0.002mm	With non-rotating device	With	Ø6.5mm	17.5mm	28.5mm	47mm
165-02-0	0-50mm	±0.002mm	Flat & Carbide tipped	W/O	Ø8mm	35.5mm	53mm	71.5mm
165-02-2	0-50mm	±0.002mm	Spherical	W/O	Ø8mm	35.5mm	53mm	71.5mm

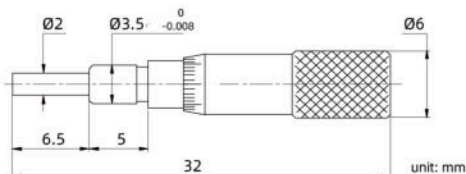


Micrometer Heads

169 Series



169-82-2



FEATURES

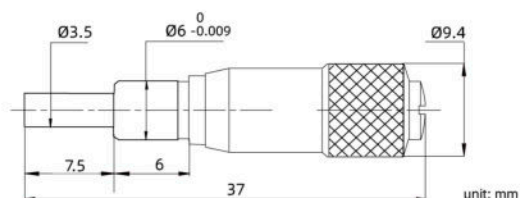
- Graduation: .001"/0.02mm
- Without spindle lock
- Without clamp nut

Inch							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-82-1	0-.2"	±.00010"	.001"	Ø .079"	W/O	Flat	W/O
169-82-3	0-.2"	±.00010"	.001"	Ø .079"	W/O	Spherical	W/O

Metric							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-82-0	0-5mm	0.004mm	0.02mm	Ø2mm	W/O	Flat	W/O
169-82-2	0-5mm	0.004mm	0.02mm	Ø2mm	W/O	Spherical	W/O



169-65-2

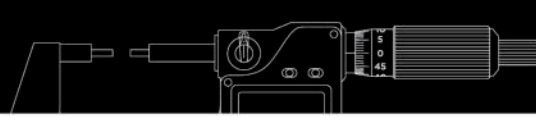


FEATURES

- Graduation: .001"/0.01mm
- Without spindle lock
- Without clamp nut

Inch							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-65-1	0-.25"	±.00010"	.001"	Ø .138"	W/O	Flat	W/O
169-65-3	0-.25"	±.00010"	.001"	Ø .138"	W/O	Spherical	W/O

Metric							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-65-0	0-6.5mm	0.004mm	0.01mm	Ø3.5mm	W/O	Flat	W/O
169-65-2	0-6.5mm	0.004mm	0.01mm	Ø3.5mm	W/O	Spherical	W/O

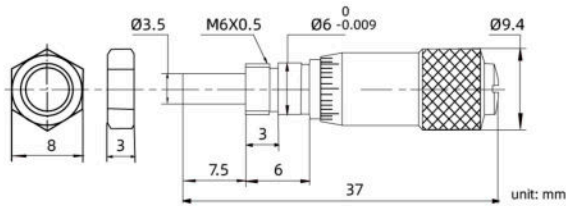


Micrometer Heads

169 Series



169-65-4



FEATURES

- Graduation: .001"/0.01mm
- Without spindle lock
- With clamp nut

Inch

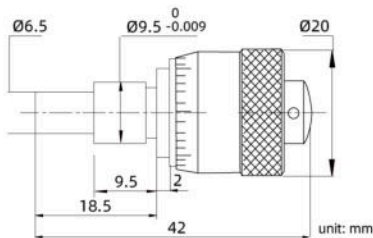
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-65-5	0-.25"	±.00010"	.001"	Ø .138"	W/O	Flat	With
169-65-7	0-.25"	±.00010"	.001"	Ø .138"	W/O	Spherical	With

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-65-6	0-6.5mm	0.004mm	0.01mm	Ø3.5mm	W/O	Flat	With
169-65-4	0-6.5mm	0.004mm	0.01mm	Ø3.5mm	W/O	Spherical	With



169-75-2



FEATURES

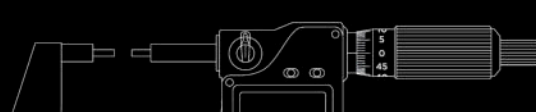
- Graduation: .001"/0.01mm
- Without spindle lock
- Without clamp nut

Inch

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-75-1	0-.25"	±.00010"	.001"	Ø .256"	W/O	Carbide & Flat	W/O
169-75-3	0-.25"	±.00010"	.001"	Ø .256"	W/O	Carbide & Spherical	W/O

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-75-0	0-6.5mm	0.004mm	0.01mm	Ø6.5mm	W/O	Carbide & Flat	W/O
169-75-2	0-6.5mm	0.004mm	0.01mm	Ø6.5mm	W/O	Carbide & Spherical	W/O

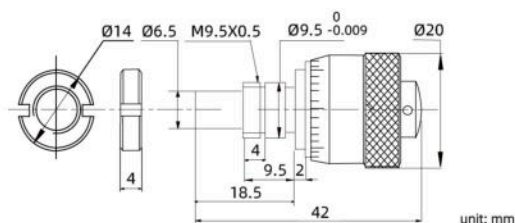


Micrometer Heads

169 Series



169-75-6



FEATURES

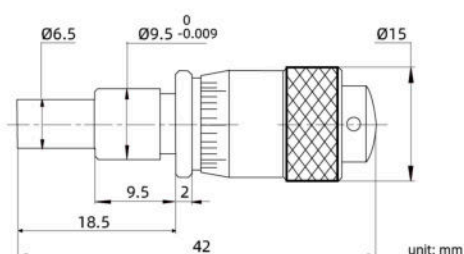
- Graduation: .001"/0.01mm
- Without spindle lock
- With clamp nut

Inch							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-75-5	0-.25"	±.00010"	.001"	Ø .256"	W/O	Carbide & Flat	With
169-75-7	0-.25"	±.00010"	.001"	Ø .256"	W/O	Carbide & Spherical	With

Metric							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-75-4	0-6.5mm	0.004mm	0.01mm	Ø6.5mm	W/O	Carbide & Flat	With
169-75-6	0-6.5mm	0.004mm	0.01mm	Ø6.5mm	W/O	Carbide & Spherical	With



169-85-2

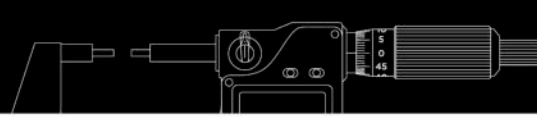


FEATURES

- Graduation: .0002"/0.005mm
- Without spindle lock
- Without clamp nut

Inch							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-85-1	0-.25"	±.00010"	.0002"	Ø .256"	W/O	Carbide & Flat	W/O
169-85-3	0-.25"	±.00010"	.0002"	Ø .256"	W/O	Carbide & Spherical	W/O

Metric							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-85-0	0-6.5mm	0.004mm	0.005mm	Ø6.5mm	W/O	Carbide & Flat	W/O
169-85-2	0-6.5mm	0.004mm	0.005mm	Ø6.5mm	W/O	Carbide & Spherical	W/O

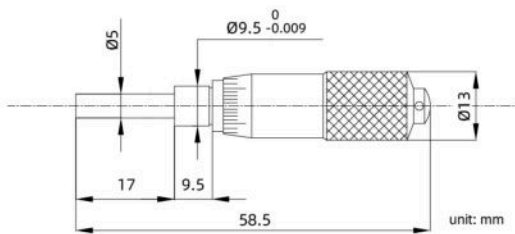


Micrometer Heads

169 Series



169-05-0



FEATURES

- Graduation: .001"/0.01mm
- Without spindle lock
- Without clamp nut

Inch

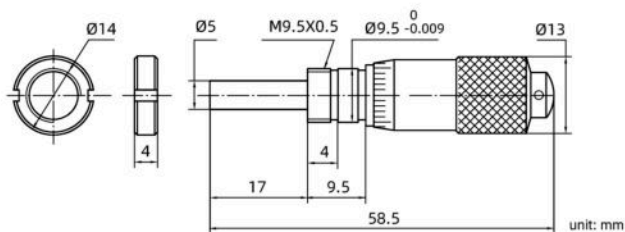
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-05-1	0-.5"	±.00010"	.001"	Ø .197"	W/O	Flat	W/O
169-05-5	0-.5"	±.00010"	.001"	Ø .197"	W/O	Spherical	W/O

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-05-0	0-13mm	0.004mm	0.01mm	Ø5mm	W/O	Flat	W/O
169-05-4	0-13mm	0.004mm	0.01mm	Ø5mm	W/O	Spherical	W/O



169-05-8



FEATURES

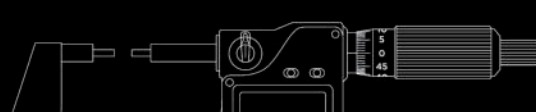
- Graduation: .001"/0.01mm
- Without spindle lock
- With clamp nut

Inch

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-05-9	0-.5"	±.00010"	.001"	Ø .197"	W/O	Flat	With
169-06-5	0-.5"	±.00010"	.001"	Ø .197"	W/O	Spherical	With

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-05-8	0-13mm	0.004mm	0.01mm	Ø5mm	W/O	Flat	With
169-06-4	0-13mm	0.004mm	0.01mm	Ø5mm	W/O	Spherical	With

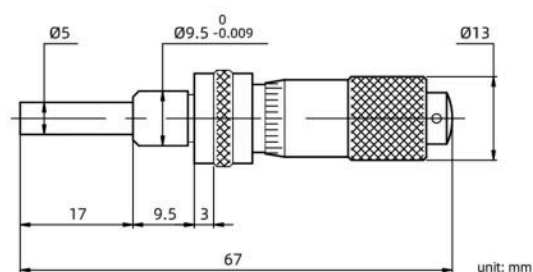


Micrometer Heads

169 Series



169-06-0



FEATURES

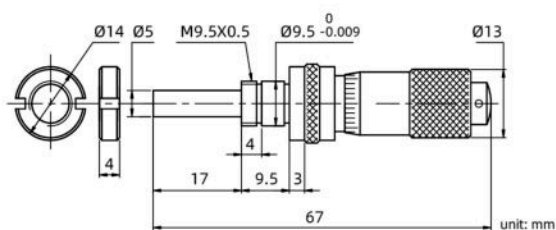
- Graduation: .001"/0.01mm
- With spindle lock
- Without clamp nut

Inch							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-06-1	0-.5"	±.00010"	.001"	Ø .197"	With	Flat	W/O
169-06-3	0-.5"	±.00010"	.001"	Ø .197"	With	Spherical	W/O

Metric							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-06-0	0-13mm	0.004mm	0.01mm	Ø5mm	With	Flat	W/O
169-06-2	0-13mm	0.004mm	0.01mm	Ø5mm	With	Spherical	W/O



169-05-2

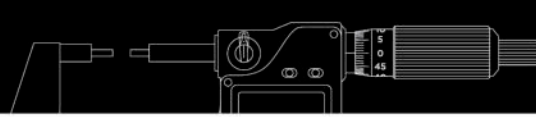


FEATURES

- Graduation: .001"/0.01mm
- With spindle lock
- With clamp nut

Inch							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-05-3	0-.5"	±.00010"	.001"	Ø .197"	With	Flat	With
169-05-7	0-.5"	±.00010"	.001"	Ø .197"	With	Spherical	With

Metric							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-05-2	0-13mm	0.004mm	0.01mm	Ø5mm	With	Flat	With
169-05-6	0-13mm	0.004mm	0.01mm	Ø5mm	With	Spherical	With

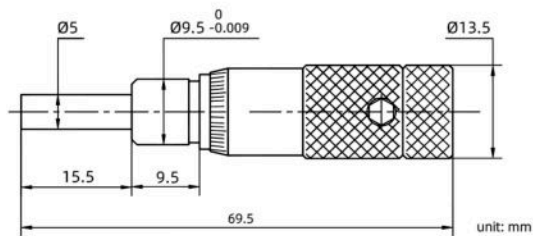


Micrometer Heads

169 Series



169-13-0



FEATURES

- Graduation: .001"/0.01mm
- Without spindle lock
- Without clamp nut

Inch

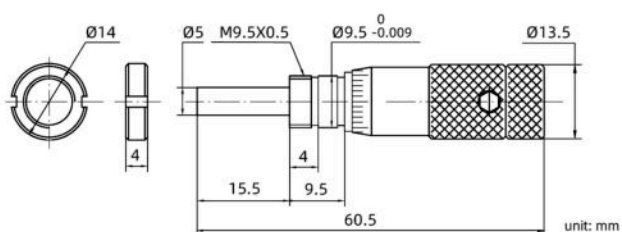
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-13-1	0-.5"	±.00010"	.001"	Ø .197"	W/O	Flat	W/O
169-13-5	0-.5"	±.00010"	.001"	Ø .197"	W/O	Spherical	W/O

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-13-0	0-13mm	0.004mm	0.01mm	Ø5mm	W/O	Flat	W/O
169-13-4	0-13mm	0.004mm	0.01mm	Ø5mm	W/O	Spherical	W/O



169-23-0



FEATURES

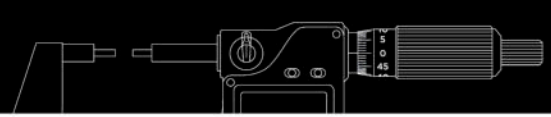
- Graduation: .001"/0.01mm
- Without spindle lock
- With clamp nut

Inch

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-23-1	0-.5"	±.00010"	.001"	Ø .197"	W/O	Flat	With
169-23-5	0-.5"	±.00010"	.001"	Ø .197"	W/O	Spherical	With

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-23-0	0-13mm	0.004mm	0.01mm	Ø5mm	W/O	Flat	With
169-23-4	0-13mm	0.004mm	0.01mm	Ø5mm	W/O	Spherical	With

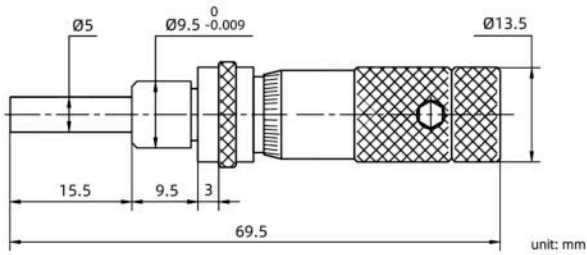


Micrometer Heads

169 Series



169-13-2



FEATURES

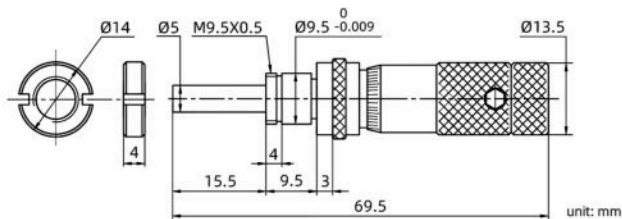
- Graduation: .001"/0.01mm
- With spindle lock
- Without clamp nut

Inch							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-13-3	0-.5"	±.00010"	.001"	Ø .197"	With	Flat	W/O
169-13-7	0-.5"	±.00010"	.001"	Ø .197"	With	Spherical	W/O

Metric							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-13-2	0-13mm	0.004mm	0.01mm	Ø5mm	With	Flat	W/O
169-13-6	0-13mm	0.004mm	0.01mm	Ø5mm	With	Spherical	W/O



169-23-6

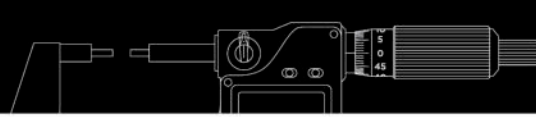


FEATURES

- Graduation: .001"/0.01mm
- With spindle lock
- With clamp nut

Inch							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-23-3	0-.5"	±.00010"	.001"	Ø .197"	With	Flat	With
169-23-7	0-.5"	±.00010"	.001"	Ø .197"	With	Spherical	With

Metric							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-23-2	0-13mm	0.004mm	0.01mm	Ø5mm	With	Flat	With
169-23-6	0-13mm	0.004mm	0.01mm	Ø5mm	With	Spherical	With

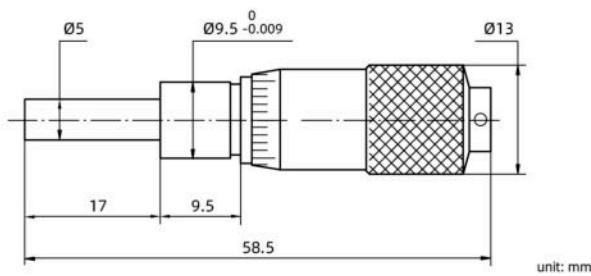


Micrometer Heads

169 Series



169-33-2



unit: mm

FEATURES

- Graduation: .0002"/0.005mm
- Without spindle lock
- Without clamp nut

Inch

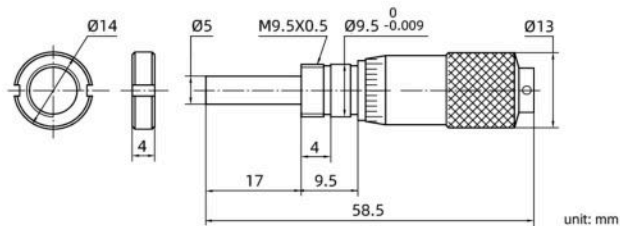
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-33-1	0-.5"	±.00010"	.0002"	Ø .197"	W/O	Flat	W/O
169-33-3	0-.5"	±.00010"	.0002"	Ø .197"	W/O	Carbide & Spherical	W/O

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-33-0	0-13mm	0.004mm	0.005mm	Ø5mm	W/O	Flat	W/O
169-33-2	0-13mm	0.004mm	0.005mm	Ø5mm	W/O	Carbide & Spherical	W/O



169-33-6



unit: mm

FEATURES

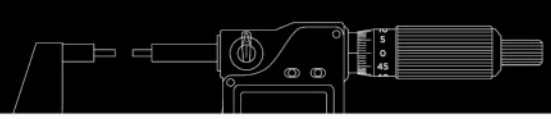
- Graduation: .0002"/0.005mm
- Without spindle lock
- With clamp nut

Inch

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-33-5	0-.5"	±.00010"	.0002"	Ø .197"	W/O	Flat	With
169-33-7	0-.5"	±.00010"	.0002"	Ø .197"	W/O	Spherical	With

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-33-4	0-13mm	0.004mm	0.005mm	Ø5mm	W/O	Flat	With
169-33-6	0-13mm	0.004mm	0.005mm	Ø5mm	W/O	Spherical	With

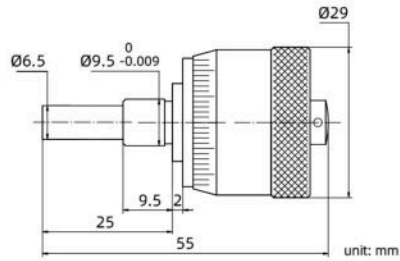


Micrometer Heads

169 Series



169-43-2



FEATURES

- Graduation: .001"/0.01mm
- Without spindle lock
- Without clamp nut

Inch

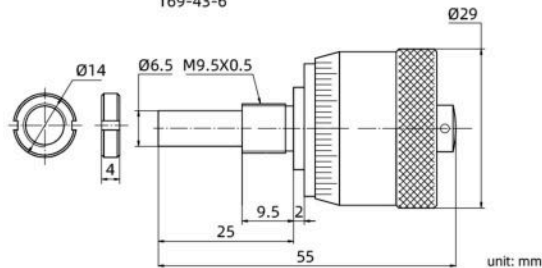
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-43-1	0-.5"	±.00010"	.001"	Ø .197"	W/O	Carbide & Flat	W/O
169-43-3	0-.5"	±.00010"	.001"	Ø .197"	W/O	Carbide & Spherical	W/O

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-43-0	0-13mm	0.004mm	0.01mm	Ø5mm	W/O	Carbide & Flat	W/O
169-43-2	0-13mm	0.004mm	0.01mm	Ø5mm	W/O	Carbide & Spherical	W/O



169-43-6



FEATURES

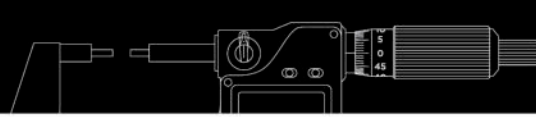
- Graduation: .001"/0.01mm
- Without spindle lock
- With clamp nut

Inch

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-43-5	0-.5"	±.00010"	.001"	Ø .197"	W/O	Carbide & Flat	With
169-43-7	0-.5"	±.00010"	.001"	Ø .197"	W/O	Carbide & Spherical	With

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-43-4	0-13mm	0.004mm	0.01mm	Ø5mm	W/O	Carbide & Flat	With
169-43-6	0-13mm	0.004mm	0.01mm	Ø5mm	W/O	Carbide & Spherical	With

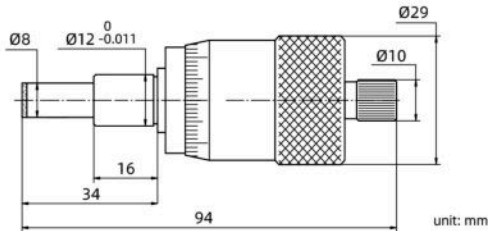


Micrometer Heads

169 Series



169-35-0



FEATURES

- Graduation: .001"/0.01mm
- Without spindle lock
- Without clamp nut

Inch

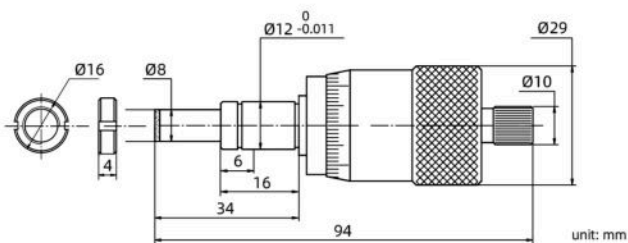
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-35-1	0-.5"	±.00010"	.001"	Ø .315"	W/O	Carbide & Flat	W/O
169-35-3	0-.5"	±.00010"	.001"	Ø .315"	W/O	Carbide & Spherical	W/O

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-35-0	0-13mm	0.004mm	0.01mm	Ø8mm	W/O	Carbide & Flat	W/O
169-35-2	0-13mm	0.004mm	0.01mm	Ø8mm	W/O	Carbide & Spherical	W/O



169-35-6



FEATURES

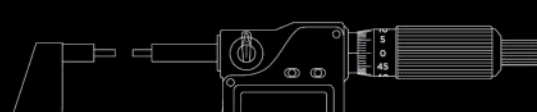
- Graduation: .001"/0.01mm
- Without spindle lock
- With clamp nut

Inch

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-35-5	0-.5"	±.00010"	.001"	Ø .315"	W/O	Carbide & Flat	With
169-35-7	0-.5"	±.00010"	.001"	Ø .315"	W/O	Carbide & Spherical	With

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-35-4	0-13mm	0.004mm	0.01mm	Ø8mm	W/O	Carbide & Flat	With
169-35-6	0-13mm	0.004mm	0.01mm	Ø8mm	W/O	Carbide & Spherical	With

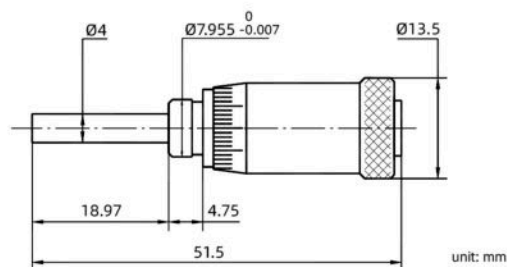


Micrometer Heads

169 Series



169-91-0



FEATURES

- Graduation: .001"/0.01mm
- Without spindle lock
- Without clamp nut

Inch

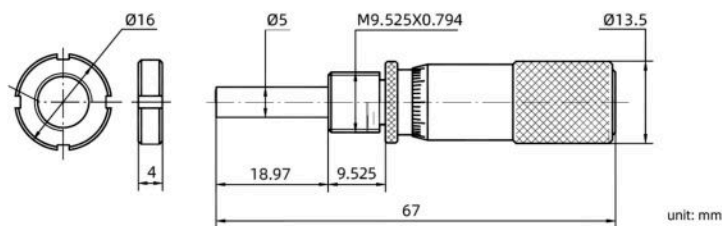
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-91-1	0-.5"	±.00010"	.001"	Ø .157"	W/O	Flat	W/O

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-91-0	0-13mm	0.004mm	0.01mm	Ø4mm	W/O	Flat	W/O



169-91-2



FEATURES

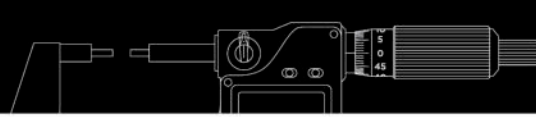
- Graduation: .001"/0.01mm
- Without spindle lock
- With clamp nut

Inch

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-91-3	0-.5"	±.00010"	.001"	Ø .197"	W/O	Flat	With

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-91-2	0-13mm	0.004mm	0.01mm	Ø5mm	W/O	Flat	With

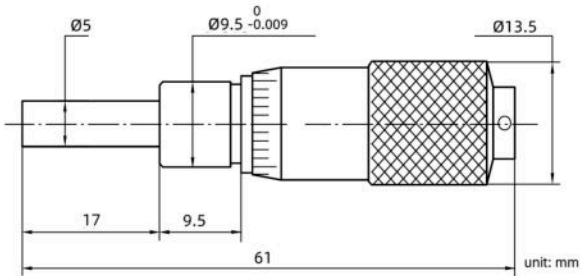


Micrometer Heads

169 Series



169-15-0



FEATURES

- Graduation: .001"/0.01mm
- Without spindle lock
- Without clamp nut

Inch

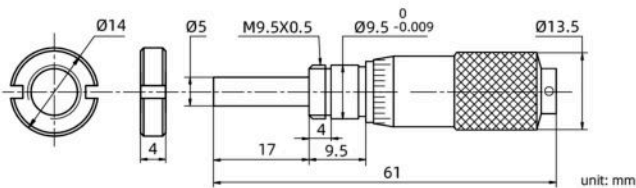
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-15-1	0-.6"	±.00010"	.001"	Ø .197"	W/O	Flat	W/O
169-15-3	0-.6"	±.00010"	.001"	Ø .197"	W/O	Spherical	W/O

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-15-0	0-15mm	0.004mm	0.01mm	Ø5mm	W/O	Flat	W/O
169-15-2	0-15mm	0.004mm	0.01mm	Ø5mm	W/O	Spherical	W/O



169-15-4



FEATURES

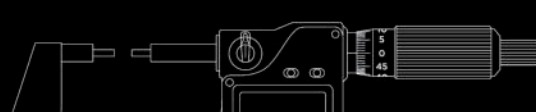
- Graduation: .001"/0.01mm
- Without spindle lock
- With clamp nut

Inch

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-15-5	0-.6"	±.00010"	.001"	Ø .197"	W/O	Flat	With
169-15-7	0-.6"	±.00010"	.001"	Ø .197"	W/O	Spherical	With

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-15-4	0-15mm	0.004mm	0.01mm	Ø5mm	W/O	Flat	With
169-15-6	0-15mm	0.004mm	0.01mm	Ø5mm	W/O	Spherical	With

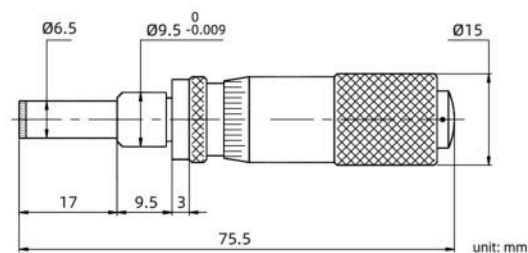


Micrometer Heads

169 Series



169-25-0



FEATURES

- Graduation: .001"/0.01mm
- With spindle lock
- Without clamp nut

Inch

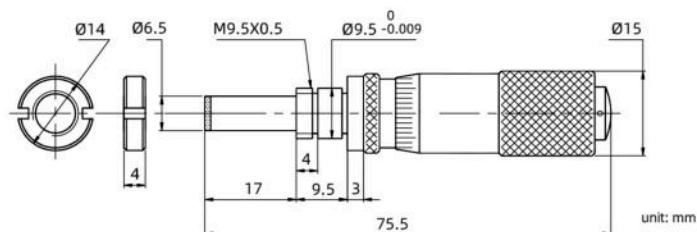
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-25-1	0-.6"	±.00010"	.001"	Ø .256"	With	Flat	W/O
169-25-3	0-.6"	±.00010"	.001"	Ø .256"	With	Spherical	W/O

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-25-0	0-15mm	0.004mm	0.01mm	Ø6.5mm	With	Flat	W/O
169-25-2	0-15mm	0.004mm	0.01mm	Ø6.5mm	With	Spherical	W/O



169-25-4



FEATURES

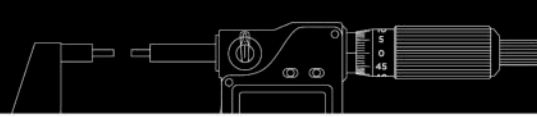
- Graduation: .001"/0.01mm
- With spindle lock
- With clamp nut

Inch

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-25-5	0-.6"	±.00010"	.001"	Ø .256"	With	Flat	With
169-25-7	0-.6"	±.00010"	.001"	Ø .256"	With	Spherical	With

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-25-4	0-15mm	0.004mm	0.01mm	Ø6.5mm	With	Flat	With
169-25-6	0-15mm	0.004mm	0.01mm	Ø6.5mm	With	Spherical	With

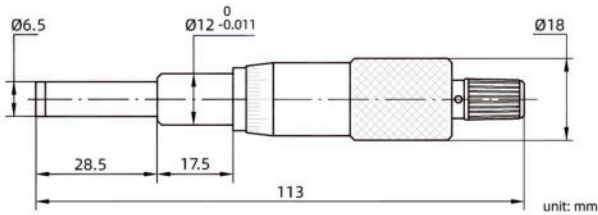


Micrometer Heads

169 Series



169-31-0



FEATURES

- Graduation: .0001", .001"/0.002mm, 0.01mm
- Ratchet stop
- Without spindle lock
- Without clamp nut

Inch

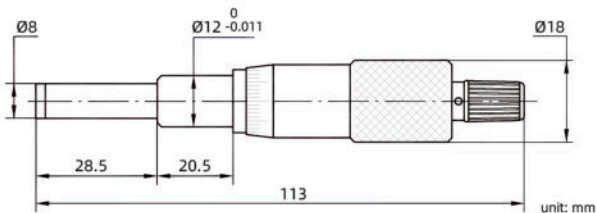
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-31-1	0-1"	±.00010"	.001"	Ø .256"	W/O	Carbide & Flat	W/O
169-32-1	0-1"	±.00010"	.001"	Ø .256"	W/O	Carbide & Spherical	W/O
169-31-5	0-1"	±.00010"	.0001"	Ø .256"	W/O	Carbide & Flat	W/O
169-32-5	0-1"	±.00010"	.0001"	Ø .256"	W/O	Carbide & Spherical	W/O

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-31-0	0-25mm	0.004mm	0.01mm	Ø6.5mm	W/O	Carbide & Flat	W/O
169-32-0	0-25mm	0.004mm	0.01mm	Ø6.5mm	W/O	Carbide & Spherical	W/O
169-31-4	0-25mm	0.004mm	0.002mm	Ø6.5mm	W/O	Carbide & Flat	W/O
169-32-4	0-25mm	0.004mm	0.002mm	Ø6.5mm	W/O	Carbide & Spherical	W/O



169-31-2



FEATURES

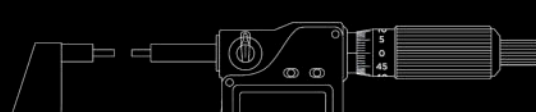
- Graduation: .0001", .001"/0.002mm, 0.01mm
- Ratchet stop
- Without spindle lock
- Without clamp nut

Inch

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-31-3	0-1"	±.00010"	.001"	Ø .315"	W/O	Carbide & Flat	W/O
169-32-3	0-1"	±.00010"	.001"	Ø .315"	W/O	Carbide & Spherical	W/O
169-31-7	0-1"	±.00010"	.0001"	Ø .315"	W/O	Carbide & Flat	W/O
169-32-7	0-1"	±.00010"	.0001"	Ø .315"	W/O	Carbide & Spherical	W/O

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-31-2	0-25mm	0.004mm	0.01mm	Ø8mm	W/O	Carbide & Flat	W/O
169-32-2	0-25mm	0.004mm	0.01mm	Ø8mm	W/O	Carbide & Spherical	W/O
169-31-6	0-25mm	0.004mm	0.002mm	Ø8mm	W/O	Carbide & Flat	W/O
169-32-6	0-25mm	0.004mm	0.002mm	Ø8mm	W/O	Carbide & Spherical	W/O

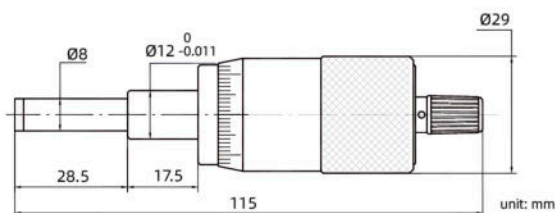


Micrometer Heads

169 Series



169-21-0



unit: mm

FEATURES

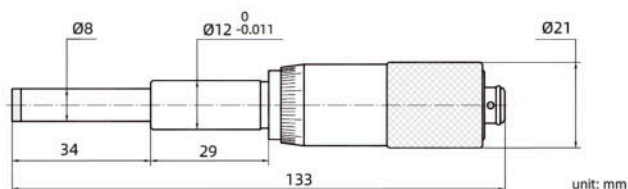
- Graduation: .001"/0.01mm
- Without spindle lock
- Without clamp nut

Inch							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-21-1	0-1"	±.00010"	.001"	Ø .315"	W/O	Carbide & Flat	W/O
169-21-3	0-1"	±.00010"	.001"	Ø .315"	W/O	Carbide & Spherical	W/O

Metric							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-21-0	0-25mm	0.004mm	0.01mm	Ø8mm	W/O	Carbide & Flat	W/O
169-21-2	0-25mm	0.004mm	0.01mm	Ø8mm	W/O	Carbide & Spherical	W/O



169-51-0



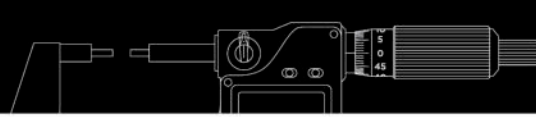
unit: mm

FEATURES

- Graduation: .0001", .001"/0.001mm, 0.01mm
- Without spindle lock
- Without clamp nut

Inch							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-51-1	0-1"	±.00010"	.001"	Ø .315"	W/O	Carbide & Flat	W/O
169-51-3	0-1"	±.00010"	.0001"	Ø .315"	W/O	Carbide & Flat	W/O
169-52-1	0-1"	±.00010"	.001"	Ø .315"	W/O	Carbide & Spherical	W/O
169-52-3	0-1"	±.00010"	.0001"	Ø .315"	W/O	Carbide & Spherical	W/O

Metric							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-51-0	0-25mm	0.004mm	0.01mm	Ø8mm	W/O	Carbide & Flat	W/O
169-51-2	0-25mm	0.004mm	0.001mm	Ø8mm	W/O	Carbide & Flat	W/O
169-52-0	0-25mm	0.004mm	0.01mm	Ø8mm	W/O	Carbide & Spherical	W/O
169-52-2	0-25mm	0.004mm	0.001mm	Ø8mm	W/O	Carbide & Spherical	W/O

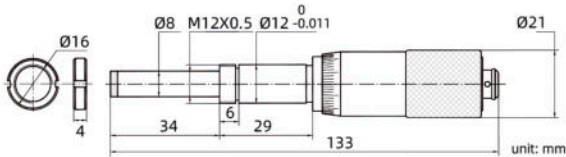


Micrometer Heads

169 Series



169-52-6



FEATURES

- Graduation: .001"/0.01mm
- Without spindle lock
- With clamp nut

Inch

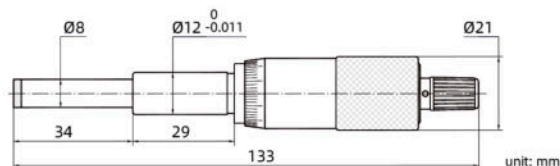
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-51-5	0-1"	± .00010"	.001"	Ø.315"	W/O	Carbide & Flat	With
169-51-7	0-1"	± .00010"	.0001"	Ø.315"	W/O	Carbide & Flat	With
169-52-5	0-1"	± .00010"	.001"	Ø.315"	W/O	Carbide & Spherical	With
169-52-7	0-1"	± .00010"	.0001"	Ø.315"	W/O	Carbide & Spherical	With

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-51-4	0-25mm	0.004mm	0.01mm	Ø8mm	W/O	Carbide & Flat	With
169-51-6	0-25mm	0.004mm	0.001mm	Ø8mm	W/O	Carbide & Flat	With
169-52-4	0-25mm	0.004mm	0.01mm	Ø8mm	W/O	Carbide & Spherical	With
169-52-6	0-25mm	0.004mm	0.001mm	Ø8mm	W/O	Carbide & Spherical	With



169-54-2



FEATURES

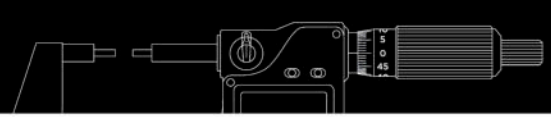
- Graduation: .0001", .001"/0.001mm, 0.01mm
- Ratchet stop
- Without spindle lock
- Without clamp nut

Inch

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-53-1	0-1"	± .00010"	.001"	Ø .315"	W/O	Carbide & Flat	W/O
169-54-1	0-1"	± .00010"	.001"	Ø .315"	W/O	Carbide & Spherical	W/O
169-53-3	0-1"	± .00010"	.0001"	Ø .315"	W/O	Carbide & Flat	W/O
169-54-3	0-1"	± .00010"	.0001"	Ø .315"	W/O	Carbide & Spherical	W/O

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-53-0	0-25mm	0.004mm	0.01mm	Ø8mm	W/O	Carbide & Flat	W/O
169-54-0	0-25mm	0.004mm	0.01mm	Ø8mm	W/O	Carbide & Spherical	W/O
169-53-2	0-25mm	0.004mm	0.001mm	Ø8mm	W/O	Carbide & Flat	W/O
169-54-2	0-25mm	0.004mm	0.001mm	Ø8mm	W/O	Carbide & Spherical	W/O

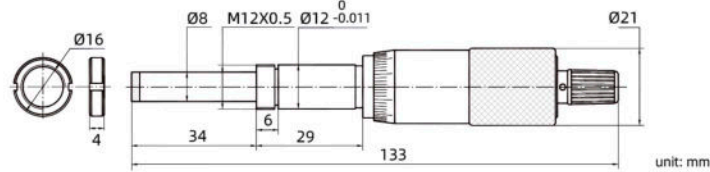


Micrometer Heads

169 Series



169-54-6



FEATURES

- Graduation: .0001", .001"/0.001mm, 0.01mm
- Ratchet stop
- Without spindle lock
- With clamp nut

Inch

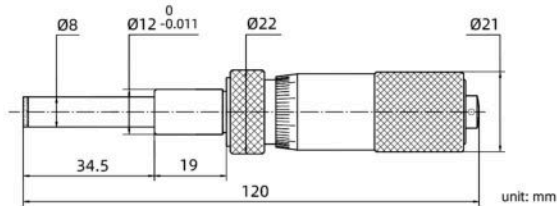
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-53-5	0-1"	±.00010"	.001"	Ø .315"	W/O	Carbide & Flat	With
169-54-5	0-1"	±.00010"	.001"	Ø .315"	W/O	Carbide & Spherical	With
169-53-7	0-1"	±.00010"	.0001"	Ø .315"	W/O	Carbide & Flat	With
169-54-7	0-1"	±.00010"	.0001"	Ø .315"	W/O	Carbide & Spherical	With

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-53-4	0-25mm	0.004mm	0.01mm	Ø8mm	W/O	Carbide & Flat	With
169-54-4	0-25mm	0.004mm	0.01mm	Ø8mm	W/O	Carbide & Spherical	With
169-53-6	0-25mm	0.004mm	0.001mm	Ø8mm	W/O	Carbide & Flat	With
169-54-6	0-25mm	0.004mm	0.001mm	Ø8mm	W/O	Carbide & Spherical	With



169-56-2



FEATURES

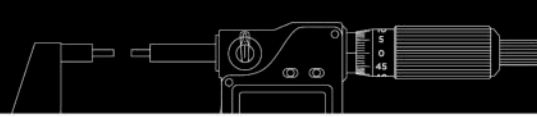
- Graduation: .0001", .001"/0.001mm, 0.01mm
- With spindle lock
- Without clamp nut

Inch

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-55-1A	0-1"	±.00010"	.001"	Ø .315"	With	Carbide & Flat	W/O
169-56-1	0-1"	±.00010"	.001"	Ø .315"	With	Carbide & Spherical	W/O
169-55-3	0-1"	±.00010"	.0001"	Ø .315"	With	Carbide & Flat	W/O
169-56-3	0-1"	±.00010"	.0001"	Ø .315"	With	Carbide & Spherical	W/O

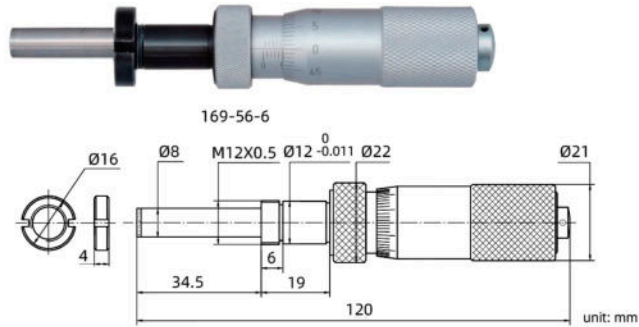
Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-55-0A	0-25mm	0.004mm	0.01mm	Ø8mm	With	Carbide & Flat	W/O
169-56-0	0-25mm	0.004mm	0.01mm	Ø8mm	With	Carbide & Spherical	W/O
169-55-2	0-25mm	0.004mm	0.001mm	Ø8mm	With	Carbide & Flat	W/O
169-56-2	0-25mm	0.004mm	0.001mm	Ø8mm	With	Carbide & Spherical	W/O



Micrometer Heads

169 Series



FEATURES

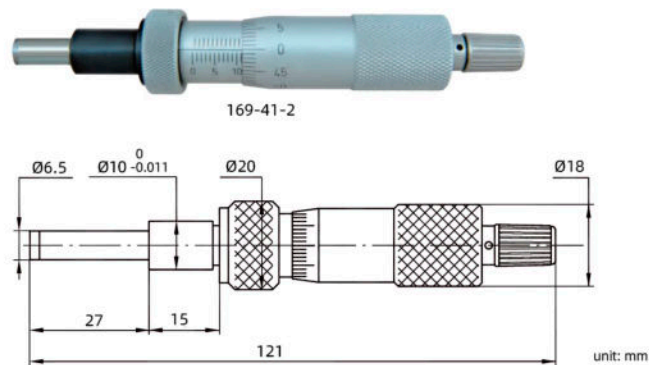
- Graduation: .0001", .001"/0.001mm, 0.01mm
- With spindle lock
- With clamp nut

Inch

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-55-5	0-1"	±.00010"	.001"	Ø .315"	With	Carbide & Flat	With
169-56-5	0-1"	±.00010"	.001"	Ø .315"	With	Carbide & Spherical	With
169-55-7	0-1"	±.00010"	.0001"	Ø .315"	With	Carbide & Flat	With
169-56-7	0-1"	±.00010"	.0001"	Ø .315"	With	Carbide & Spherical	With

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-55-4	0-25mm	0.004mm	0.01mm	Ø8mm	With	Carbide & Flat	With
169-56-4	0-25mm	0.004mm	0.01mm	Ø8mm	With	Carbide & Spherical	With
169-55-6	0-25mm	0.004mm	0.001mm	Ø8mm	With	Carbide & Flat	With
169-56-6	0-25mm	0.004mm	0.001mm	Ø8mm	With	Carbide & Spherical	With



FEATURES

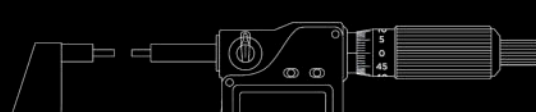
- Graduation: .001"/0.01mm
- Ratchet stop
- With spindle lock
- Without clamp nut

Inch

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-41-1	0-1"	±.00010"	.001"	Ø .256"	With	Carbide & Flat	W/O
169-41-3	0-1"	±.00010"	.001"	Ø .256"	With	Carbide & Spherical	W/O

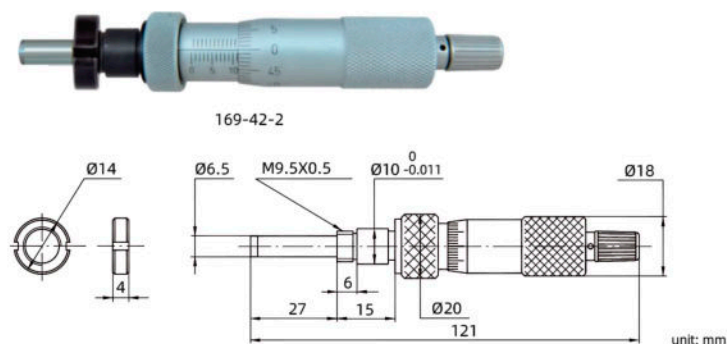
Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-41-0	0-25mm	0.004mm	0.01mm	Ø6.5mm	With	Carbide & Flat	W/O
169-41-2	0-25mm	0.004mm	0.01mm	Ø6.5mm	With	Carbide & Spherical	W/O



Micrometer Heads

169 Series

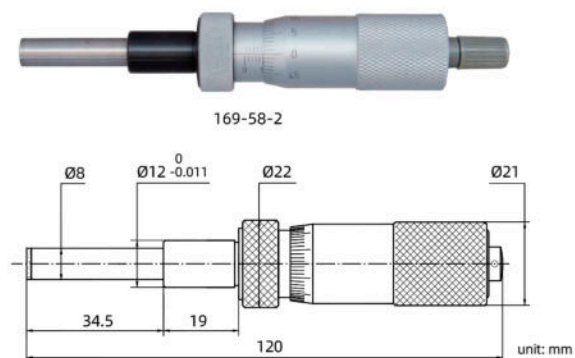


FEATURES

- Graduation: .001"/ 0.01mm
- Ratchet stop
- With spindle lock
- With clamp nut

Inch							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-42-1	0-1"	±.00010"	.001"	Ø .256"	With	Carbide & Flat	With
169-42-3	0-1"	±.00010"	.001"	Ø .256"	With	Carbide & Spherical	With

Metric							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-42-0	0-25mm	0.004mm	0.01mm	Ø6.5mm	With	Carbide & Flat	With
169-42-2	0-25mm	0.004mm	0.01mm	Ø6.5mm	With	Carbide & Spherical	With

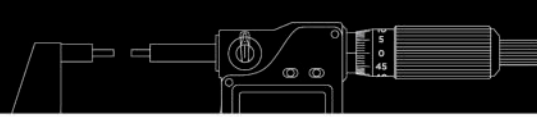


FEATURES

- Graduation: .001"/0.01mm
- Ratchet stop
- With spindle lock
- Without clamp nut

Inch							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-57-1	0-1"	±.00010"	.001"	Ø .315"	With	Carbide & Flat	W/O
169-58-1	0-1"	±.00010"	.001"	Ø .315"	With	Carbide & Spherical	W/O
169-57-3	0-1"	±.00010"	.0001"	Ø .315"	With	Carbide & Flat	W/O
169-58-3	0-1"	±.00010"	.0001"	Ø .315"	With	Carbide & Spherical	W/O

Metric							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-57-0	0-25mm	0.004mm	0.01mm	Ø8mm	With	Carbide & Flat	W/O
169-58-0	0-25mm	0.004mm	0.01mm	Ø8mm	With	Carbide & Spherical	W/O
169-57-2	0-25mm	0.004mm	0.001mm	Ø8mm	With	Carbide & Flat	W/O
169-58-2	0-25mm	0.004mm	0.001mm	Ø8mm	With	Carbide & Spherical	W/O

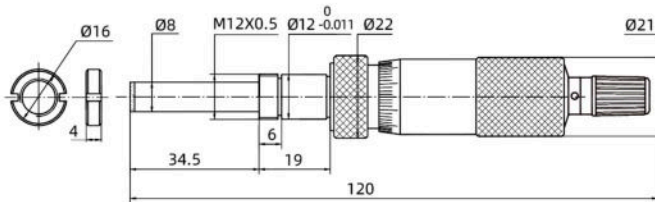


Micrometer Heads

169 Series



169-58-6



unit: mm

FEATURES

- Graduation: .0001", .001"/0.001mm, 0.01mm
- Ratchet stop
- With spindle lock
- With clamp nut

Inch

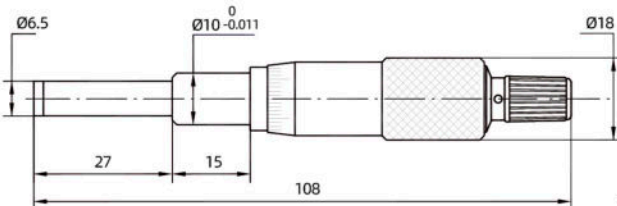
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-57-5	0-1"	±.00010"	.001"	Ø .315"	With	Carbide & Flat	With
169-58-5	0-1"	±.00010"	.001"	Ø .315"	With	Carbide & Spherical	With
169-57-7	0-1"	±.00010"	.0001"	Ø .315"	With	Carbide & Flat	With
169-58-7	0-1"	±.00010"	.0001"	Ø .315"	With	Carbide & Spherical	With

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-57-4	0-25mm	0.004mm	0.01mm	Ø8mm	With	Carbide & Flat	With
169-58-4	0-25mm	0.004mm	0.01mm	Ø8mm	With	Carbide & Spherical	With
169-57-6	0-25mm	0.004mm	0.001mm	Ø8mm	With	Carbide & Flat	With
169-58-6	0-25mm	0.004mm	0.001mm	Ø8mm	With	Carbide & Spherical	With



169-11-2



unit: mm

FEATURES

- Graduation: .001"/0.01mm
- Ratchet stop
- Without spindle lock
- Without clamp nut

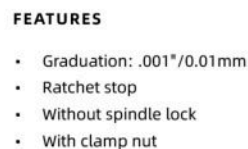
Inch

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-11-3	0-1"	±.00010"	.001"	Ø .256"	W/O	Carbide & Flat	W/O
169-11-1	0-1"	±.00010"	.001"	Ø .256"	W/O	Carbide & Spherical	W/O

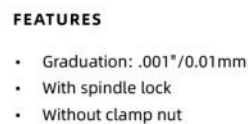
Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-11-2	0-25mm	0.004mm	0.01mm	Ø6.5mm	W/O	Carbide & Flat	W/O
169-11-0	0-25mm	0.004mm	0.01mm	Ø6.5mm	W/O	Carbide & Spherical	W/O

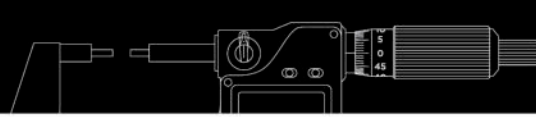
169 Series



Metric							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-01-2	0-25mm	0.004mm	0.01mm	Ø6.5mm	W/O	Carbide & Flat	With
169-01-0	0-25mm	0.004mm	0.01mm	Ø6.5mm	W/O	Carbide & Spherical	With



Metric							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-92-0	0-25mm	0.004mm	0.01mm	Ø6.5mm	With	Carbide & Flat	W/O

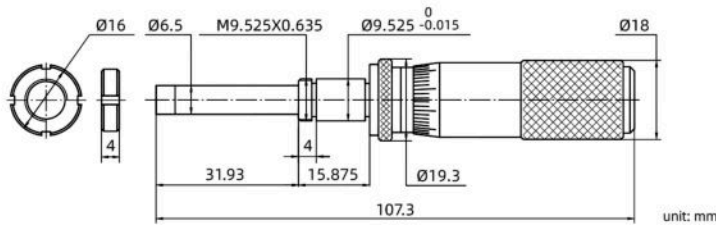


Micrometer Heads

169 Series



169-92-2



FEATURES

- Graduation: .001"/0.01mm
- With spindle lock
- With clamp nut

Inch

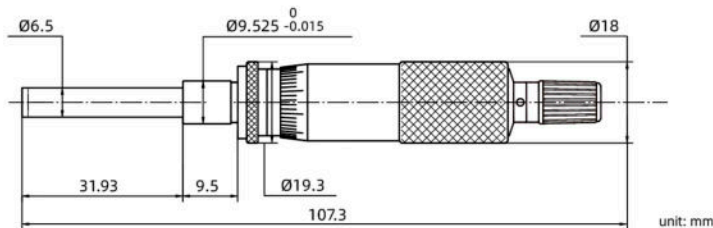
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-92-3	0-1"	±.00010"	.001"	Ø .256"	With	Carbide & Flat	With

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-92-2	0-25mm	0.004mm	0.01mm	Ø6.5mm	With	Carbide & Flat	With



169-92-4



FEATURES

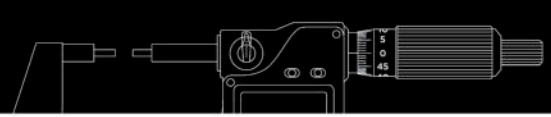
- Graduation: .001"/0.01mm
- Ratchet stop
- With spindle lock
- Without clamp nut

Inch

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-92-5	0-1"	±.00010"	.001"	Ø .256"	With	Carbide & Flat	W/O

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-92-4	0-25mm	0.004mm	0.01mm	Ø6.5mm	With	Carbide & Flat	W/O

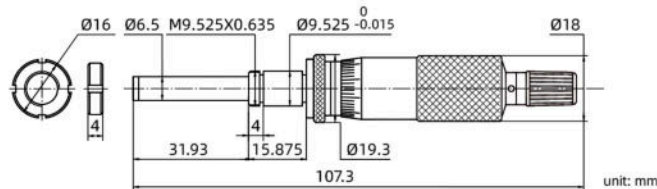


Micrometer Heads

169 Series



169-92-6



FEATURES

- Graduation: .001"/0.01mm
- Ratchet stop
- With spindle lock
- With clamp nut

Inch

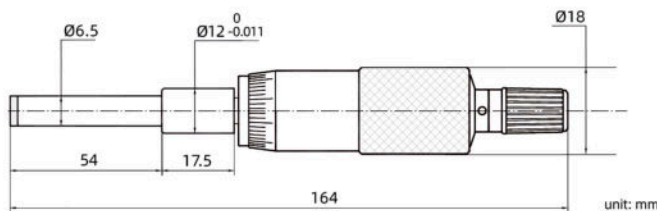
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-92-7	0-1"	±.00010"	.001"	Ø .256"	With	Carbide & Flat	With

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-92-6	0-25mm	0.004mm	0.01mm	Ø6.5mm	With	Carbide & Flat	With



169-81-2



FEATURES

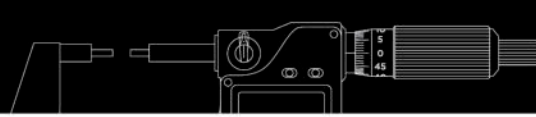
- Graduation: .001"/0.01mm
- Ratchet stop
- Without spindle lock
- Without clamp nut

Inch

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-81-1	0-2"	±.00010"	.001"	Ø .256"	W/O	Carbide & Flat	W/O
169-81-3	0-2"	±.00010"	.001"	Ø .256"	W/O	Carbide & Spherical	W/O

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-81-0	0-50mm	0.004mm	0.01mm	Ø6.5mm	W/O	Carbide & Flat	W/O
169-81-2	0-50mm	0.004mm	0.01mm	Ø6.5mm	W/O	Carbide & Spherical	W/O

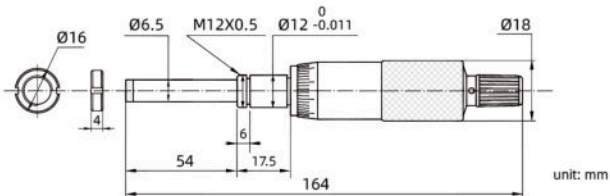


Micrometer Heads

169 Series



169-81-6



FEATURES

- Graduation: .001"/0.01mm
- Ratchet stop
- Without spindle lock
- With clamp nut

Inch

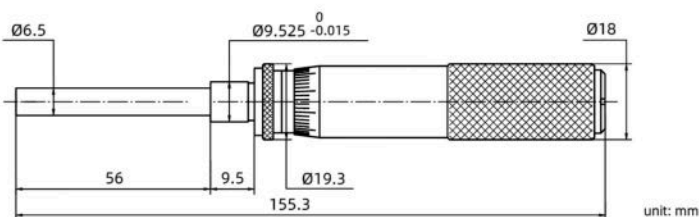
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-81-5	0-2"	±.00010"	.001"	Ø .256"	W/O	Carbide & Flat	With
169-81-7	0-2"	±.00010"	.001"	Ø .256"	W/O	Carbide & Spherical	With

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-81-4	0-50mm	0.004mm	0.01mm	Ø6.5mm	W/O	Carbide & Flat	With
169-81-6	0-50mm	0.004mm	0.01mm	Ø6.5mm	W/O	Carbide & Spherical	With



169-93-0



FEATURES

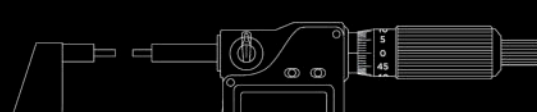
- Graduation: .001"/0.01mm
- With spindle lock
- Without clamp nut

Inch

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-93-1	0-2"	±.00010"	.001"	Ø .256"	With	Carbide & Flat	W/O

Metric

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-93-0	0-50mm	0.004mm	0.01mm	Ø6.5mm	With	Carbide & Flat	W/O

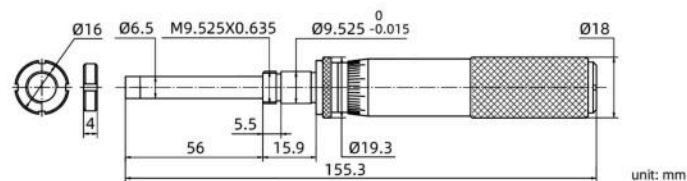


Micrometer Heads

169 Series



169-93-2



unit: mm

FEATURES

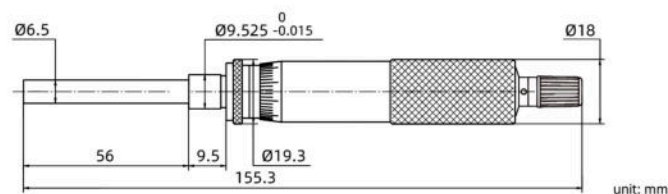
- Graduation: .001"/0.01mm
- With spindle lock
- With clamp nut

Inch							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-93-3	0-2"	±.00010"	.001"	Ø .256"	With	Carbide & Flat	With

Metric							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-93-2	0-50mm	0.004mm	0.01mm	Ø6.5mm	With	Carbide & Flat	With



169-93-4



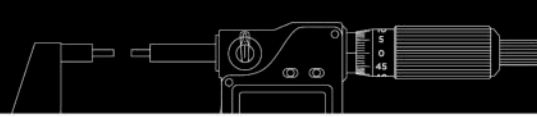
unit: mm

FEATURES

- Graduation: .001"/0.01mm
- Ratchet stop
- With spindle lock
- Without clamp nut

Inch							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-93-5	0-2"	±.00010"	.001"	Ø .256"	With	Carbide & Flat	W/O

Metric							
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-93-4	0-50mm	0.004mm	0.01mm	Ø6.5mm	With	Carbide & Flat	W/O

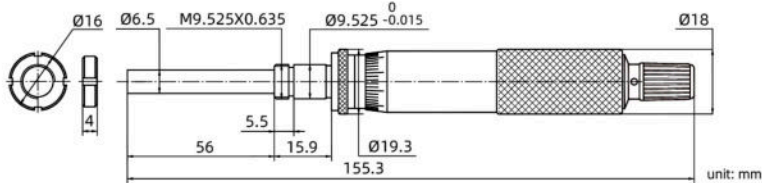


Micrometer Heads

169 Series



169-93-6



FEATURES

- Graduation: .001"/0.01mm
- Ratchet stop
- With spindle lock
- With clamp nut

Inch

Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-93-7	0-2"	±.00010"	.001"	Ø .256"	With	Carbide & Flat	With

Metric

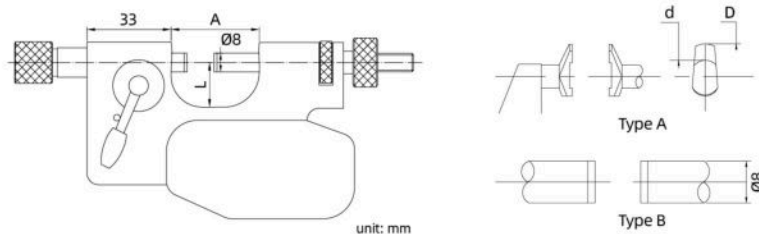
Code No.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut
169-93-6	0-50mm	0.004mm	0.01mm	Ø6.5mm	With	Carbide & Flat	With

Snap Gauges

181 Series



181-01-0

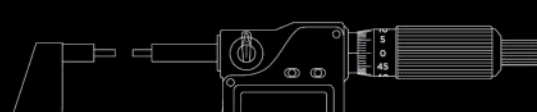


FEATURES

- Carbide tipped measuring faces
- Resolution is refer to the dial gauge. However, the dial gauge on the image (422- 21-1 or 422-21-2) is not included
- 8mm diameter stem dial gauge
- Suitable for quickly measuring dimensions of mass-produced work pieces
- Type A and type B measuring anvil configurations are available

Type A	Metric	Type B	Metric	Dimensions	
Code No.	Range	Code No.	Range	L	A
181-01-0	0-25mm	181-01-2	0-40mm	34mm	18mm
181-02-0	0-50mm	181-02-2	40-90mm	62mm	32mm
181-04-0	50-100mm	181-04-2	90-140mm	112mm	62mm
181-06-0	100-150mm	181-06-2	140-190mm	162mm	85mm
181-08-0	150-200mm	-	-	212mm	110mm

Type A	Inch	Type B	Inch	Dimensions	
Code No.	Range	Code No.	Range	L	A
181-01-1	0-1"	181-01-3	0-1.5"	34mm	18mm
181-02-1	0-2"	181-02-3	1.5-3.5"	62mm	32mm
181-04-1	2-4"	181-04-3	3.5-5.5"	112mm	62mm
181-06-1	4-6"	181-06-3	5.5-7.5"	162mm	85mm
181-08-1	6-8"	-	-	212mm	110mm

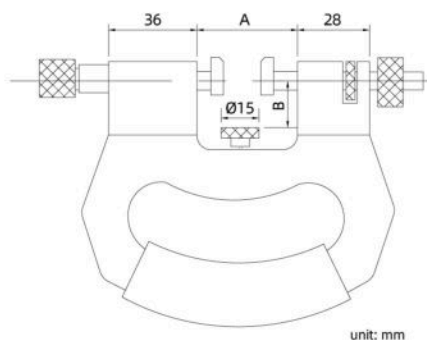


Snap Gauges

182 Series



182-01-1

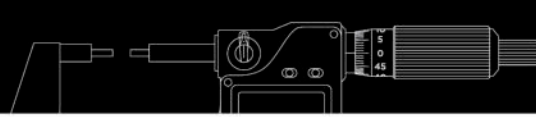


FEATURES

- Resolution is refer to the dial gauge. However, the dial gauge on the image (405-95-4 or 405-95-5) is not included
- 8mm diameter stem dial gauge
- Suitable for quickly measuring dimensions of mass-produced work pieces
- The measuring anvils are designed with a angle to allow for easy insertion of the work piece
- Dimension of measuring face: 14x11mm

Inch		Dimensions	
Code No.	Range	A	B
182-01-1	0-1"	42mm	20mm
182-02-1	0-2"	69mm	32.5mm
182-03-1	2-3"	94mm	45mm
182-04-1	3-4"	119mm	57.5mm
182-05-1	4-5"	144mm	70mm
182-06-1	5-6"	169mm	82.5mm
182-07-1	6-7"	194mm	95mm
182-08-1	7-8"	219mm	107.5mm
182-09-1	8-9"	244mm	120mm
182-10-1	9-10"	269mm	132.5mm
182-11-1	10-11"	294mm	145mm
182-12-1	11-12"	319mm	157.5mm

Metric		Dimensions	
Code No.	Range	A	B
182-01-0	0-25mm	42mm	20mm
182-02-0	25-50mm	69mm	32.5mm
182-03-0	50-75mm	94mm	45mm
182-04-0	75-100mm	119mm	57.5mm
182-05-0	100-125mm	144mm	70mm
182-06-0	125-150mm	169mm	82.5mm
182-07-0	150-175mm	194mm	95mm
182-08-0	175-200mm	219mm	107.5mm
182-09-0	200-225mm	244mm	120mm
182-10-0	225-250mm	269mm	132.5mm
182-11-0	250-275mm	294mm	145mm
182-12-0	275-300mm	319mm	157.5mm



Micrometer Standards

110 Series



110-11-1



110-08-1



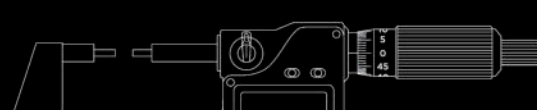
110-06-1

FEATURES

- Used for outside micrometer zero point setting
- Heat insulating handle to prevent heat expansion due to body temperature
- Flat measuring face for up to 11"/275mm size standards Spherical measuring face for over 12"/300mm size standards

Inch			
Code No.	Size	Accuracy	Diameter
110-01-1	1"	±.00005"	Ø7mm
110-02-1	2"	±.0001"	Ø7mm
110-03-1	3"	±.0001"	Ø7mm
110-04-1	4"	±.0001"	Ø8mm
110-05-1	5"	±.00015"	Ø8mm
110-06-1	6"	±.00015"	Ø8mm
110-07-1	7"	±.00015"	Ø8mm
110-08-1	8"	±.00015"	Ø8mm
110-09-1	9"	±.00020"	Ø8mm
110-10-1	10"	±.00020"	Ø8mm
110-11-1	11"	±.00020"	Ø8mm
110-12-1	12"	±.00025"	Ø16mm
110-13-1	13"	±.00025"	Ø16mm
110-14-1	14"	±.00025"	Ø16mm
110-15-1	15"	±.00025"	Ø16mm
110-16-1	16"	±.00025"	Ø16mm
110-17-1	17"	±.00025"	Ø16mm
110-18-1	18"	±.00025"	Ø16mm
110-19-1	19"	±.00030"	Ø16mm
110-20-1	20"	±.00030"	Ø16mm
110-21-1	21"	±.00030"	Ø16mm
110-22-1	23"	±.00030"	Ø16mm
110-23-1	25"	±.00030"	Ø16mm
110-24-1	27"	±.00035"	Ø16mm
110-25-1	29"	±.00035"	Ø16mm
110-26-1	31"	±.00035"	Ø16mm
110-27-1	33"	±.00035"	Ø16mm
110-28-1	35"	±.00035"	Ø16mm
110-29-1	37"	±.00035"	Ø16mm

Metric			
Code No.	Size	Accuracy	Diameter
110-01-0	25mm	±0.0012mm	Ø7mm
110-02-0	50mm	±0.0012mm	Ø7mm
110-03-0	75mm	±0.0015mm	Ø7mm
110-04-0	100mm	±0.0020mm	Ø8mm
110-05-0	125mm	±0.0025mm	Ø8mm
110-06-0	150mm	±0.0025mm	Ø8mm
110-07-0	175mm	±0.0025mm	Ø8mm
110-08-0	200mm	±0.0035mm	Ø8mm
110-09-0	225mm	±0.0035mm	Ø8mm
110-10-0	250mm	±0.0035mm	Ø8mm
110-11-0	275mm	±0.0040mm	Ø8mm
110-12-0	300mm	±0.0040mm	Ø16mm
110-13-0	325mm	±0.0045mm	Ø16mm
110-14-0	350mm	±0.0045mm	Ø16mm
110-15-0	375mm	±0.0045mm	Ø16mm
110-16-0	400mm	±0.0045mm	Ø16mm
110-17-0	425mm	±0.0050mm	Ø16mm
110-18-0	450mm	±0.0050mm	Ø16mm
110-19-0	475mm	±0.0050mm	Ø16mm
110-20-0	500mm	±0.0050mm	Ø16mm
110-21-0	525mm	±0.0055mm	Ø16mm
110-22-0	575mm	±0.0055mm	Ø16mm
110-23-0	625mm	±0.0055mm	Ø16mm
110-24-0	675mm	±0.0065mm	Ø16mm
110-25-0	725mm	±0.0065mm	Ø16mm
110-26-0	775mm	±0.0065mm	Ø16mm
110-27-0	825mm	±0.0075mm	Ø16mm
110-28-0	875mm	±0.0075mm	Ø16mm
110-29-0	925mm	±0.0075mm	Ø16mm
110-30-0	975mm	±0.0075mm	Ø16mm
110-31-0	1050mm	±0.0090mm	Ø23mm
110-32-0	1150mm	±0.0090mm	Ø23mm
110-33-0	1250mm	±0.0090mm	Ø23mm
110-34-0	1350mm	±0.0105mm	Ø23mm
110-35-0	1450mm	±0.0105mm	Ø23mm
110-36-0	1550mm	±0.0105mm	Ø23mm
110-37-0	1650mm	±0.0125mm	Ø23mm
110-38-0	1750mm	±0.0125mm	Ø23mm
110-39-0	1850mm	±0.0125mm	Ø23mm
110-40-0	1950mm	±0.0125mm	Ø23mm



Screw Thread Micrometer Standards

130 Series



130-83-1

FEATURES

- Used for screw thread micrometer zero point setting
- Heat insulating handle to prevent heat expansion due to body temperature

Inch			
Code No.	Size	Accuracy	Diameter
130-81-1	1"x60°	±.0001"	Ø7mm
130-82-1	2"x60°	±.00015"	Ø7mm
130-83-1	3"x60°	±.00015"	Ø8mm
130-84-1	4"x60°	±.00015"	Ø8mm
130-85-1	5"x60°	±.0002"	Ø8mm
130-86-1	6"x60°	±.0002"	Ø8mm
130-87-1	7"x60°	±.0002"	Ø8mm
130-88-1	8"x60°	±.0002"	Ø8mm
130-91-1	1"x55°	±.0001"	Ø7mm
130-92-1	2"x55°	±.00015"	Ø7mm
130-93-1	3"x55°	±.00015"	Ø8mm
130-94-1	4"x55°	±.00015"	Ø8mm
130-95-1	5"x55°	±.0002"	Ø8mm
130-96-1	6"x55°	±.0002"	Ø8mm
130-97-1	7"x55°	±.0002"	Ø8mm
130-98-1	8"x55°	±.0002"	Ø8mm

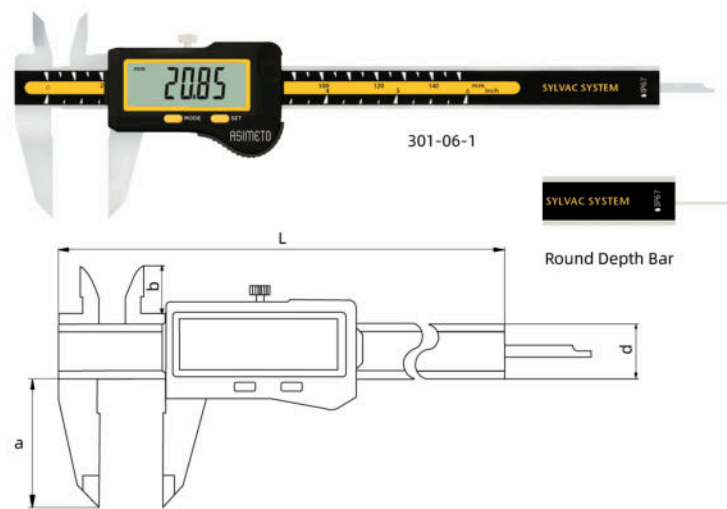
Metric			
Code No.	Size	Accuracy	Diameter
130-81-0	25mmx60°	±0.003mm	Ø7mm
130-82-0	50mmx60°	±0.0035mm	Ø7mm
130-83-0	75mmx60°	±0.0040mm	Ø8mm
130-84-0	100mmx60°	±0.0045mm	Ø8mm
130-85-0	125mmx60°	±0.0050mm	Ø8mm
130-86-0	150mmx60°	±0.0055mm	Ø8mm
130-87-0	175mmx60°	±0.0060mm	Ø8mm
130-88-0	200mmx60°	±0.0060mm	Ø8mm
130-91-0	25mmx55°	±0.003mm	Ø7mm
130-92-0	50mmx55°	±0.0035mm	Ø7mm
130-93-0	75mmx55°	±0.004mm	Ø8mm
130-94-0	100mmx55°	±0.0045mm	Ø8mm
130-95-0	125mmx55°	±0.0050mm	Ø8mm
130-96-0	150mmx55°	±0.0055mm	Ø8mm
130-97-0	175mmx55°	±0.0060mm	Ø8mm
130-98-0	200mmx55°	±0.0060mm	Ø8mm

Calipers

112	IP67 Digital Calipers - SYLVAC SYSTEM	133	Hook Type Digital Calipers
112	IP67 Digital Pointer Type Calipers	134	Digital Disc Brake Caliper
113	IP67 Digital Caliper	134	Digital Calipers With Single Measuring Tip
114	IP67 Big Screen Digital Calipers	135	Digital Gauges With Single Wide Measuring Face
115	Digital Calipers	135	Mini-Type 3-Purpose Digital Calipers
115	Absolute Big Screen Digital Calipers	136	Special Jaws Digital Calipers
116	Absolute Digital Calipers	136	Digital Chamfering Calipers
116	Big Screen Digital Calipers	137	Digital Welding Fillet Gauges
117	Digital Calipers (Four Buttons)	137	Welding Fillet Gauges
117	Digital Calipers (Three Buttons)	138	Digital Gear Tooth Calipers
118	Fraction Digital Calipers	138	Gear Tooth Calipers
118	Digital Calipers With Carbide Tipped Measuring Faces	139	IP67 Digital Scales
119	Digital Calipers With Pointed Jaws	140	Digital Scales
119	Digital Calipers with Large-sized Measuring Faces	141	Dial Calipers
120	Carbon Fiber Digital Calipers	141	Aluminum Dial Calipers
120	IP65 Carbon Fiber Digital Calipers	142	Dial Calipers With Carbide Tipped Measuring Faces
121	ABS Heavy Duty Digital Calipers	142	Heavy Duty Dial Calipers
122	Heavy Duty Digital Calipers	143	Dial Calipers With Long Internal Measuring Jaws
124	Heavy Duty Digital Calipers With Inside Measuring Jaws	144	Vernier Calipers
124	Heavy Duty Digital Calipers With Standard Jaws	145	Heavy Duty Vernier Calipers
125	Multi-function Digital Calipers	148	Long Jaw Vernier Calipers
126	ABS Multi-function Digital Calipers	150	Heavy Duty Vernier Calipers With Upper Knife-Edge
127	Universal Digital Calipers With Exchangeable Measuring Points	152	Circle Vernier Calipers
128	ABS Digital Tube Calipers	152	T Form Marking Calipers
128	Digital Calipers With Adjustable Measuring Jaw	152	Marking Calipers
129	Center Distance Digital Calipers	152	Measuring Gauges
129	Digital Cylindrical Head Center Distance Calipers	153	Interchangeable Anvil Dial Caliper Gauges
130	Digital Back-Jaw Distance Calipers	153	Internal Dial Caliper Gauges
130	ABS Digital Calipers For Outside Grooves	154	IP65 Internal Digital Caliper Gauges
131	Digital Outside Point Calipers	155	Internal Caliper Gauges
131	ABS Digital Calipers For Inside Grooves	156	Internal Caliper Gauges
132	Digital Inside Point Calipers	158	IP65 External Digital Caliper Gauges
133	Digital Calipers With Long Internal Measuring Jaws	159	External Caliper Gauges
		162	Tool Kits

IP67 Digital Calipers - SYLVAC SYSTEM

301 Series



FEATURES

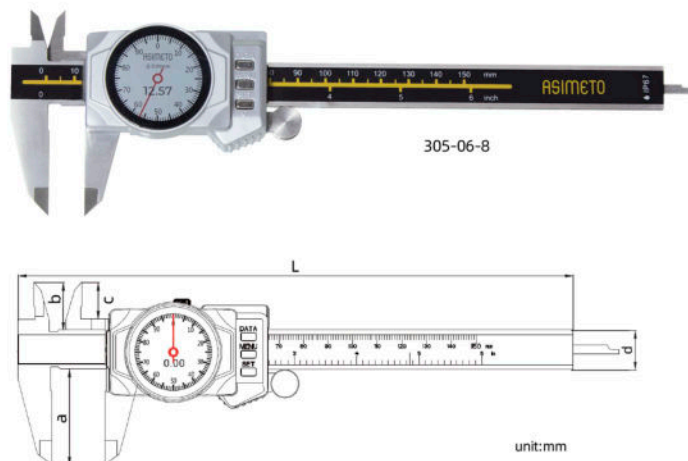
- Resolution: .0005"/0.01mm
- Button function: On/Off, Zero, mm/inch, Preset
- Auto-Off
- Sylvac system
- Protection level IP67



Inch		Metric		Dimensions					
Code No.	Range	Accuracy	Range	Accuracy	Remark	L	a	b	d
301-06-1	0-6"	±.001"	0-150mm	±0.02mm		234.5mm	40mm	16mm	16mm
301-06-3	0-6"	±.001"	0-150mm	±0.02mm	Round Depth Bar Ø1.5mm	234.5mm	40mm	16mm	16mm
301-08-1	0-8"	±.0015"	0-200mm	±0.03mm		290.5mm	50mm	19mm	16mm
301-12-1	0-12"	±.0015"	0-300mm	±0.03mm		388mm	64mm	19mm	16mm

IP67 Digital Pointer Type Calipers

305 Series

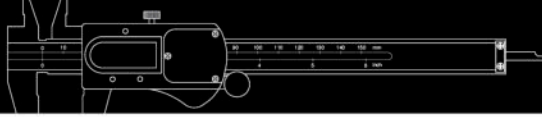


FEATURES

- Resolution: .0005"/0.01mm
- Color display. Digital dial face and number display at the same time
- Button function: On/Off, Zero, mm/inch, Night, INC, Hold, Tol, Data
- Tolerance set and GO/NG indication
- Auto-Off
- Built-in bluetooth data transmission
- Magnetic charging
- Protection level IP67



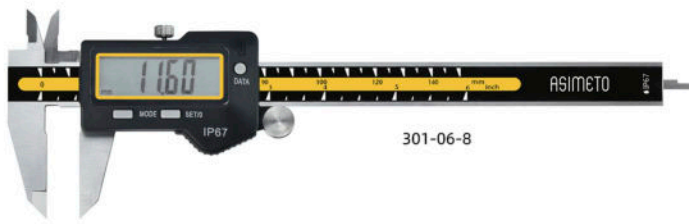
With Thumb Wheel	Without Thumb Wheel	Inch	Metric		Data Output Type	Dimensions					
Code No.	Code No.	Range	Accuracy	Range	Accuracy		L	a	b	c	d
305-04-8	305-04-9	0-4"	±.001"	0-100mm	±0.02mm	Bluetooth	185mm	40mm	20mm	15.5mm	16mm
305-06-8	305-06-9	0-6"	±.001"	0-150mm	±0.02mm	Bluetooth	235mm	40mm	20mm	15.5mm	16mm
305-08-8	305-08-9	0-8"	±.0015"	0-200mm	±0.03mm	Bluetooth	287mm	50mm	24mm	19.5mm	16mm
305-12-8	305-12-9	0-12"	±.0015"	0-300mm	±0.03mm	Bluetooth	390mm	60mm	26mm	21.5mm	16mm



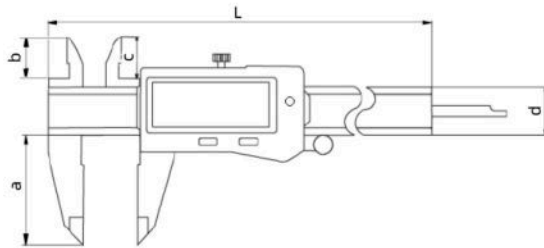
IP67 Digital Caliper

301 Series

NEW



301-06-8



FEATURES

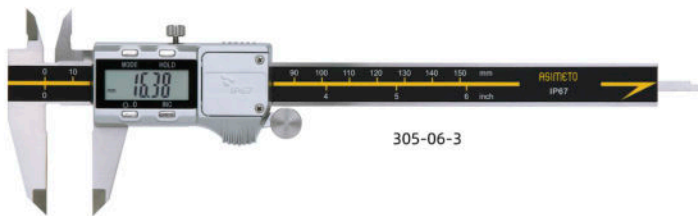
- Resolution: .0005"/0.01mm
- Buttons: On/Off, inch/mm, Zero, Preset
- Auto-On/Off. Move the scale can turn on the caliper again
- Built-in bluetooth transmission (optional)
- Built-in rechargeable lithium battery, magnetic charging port, convenient and fast
- Protection level IP67



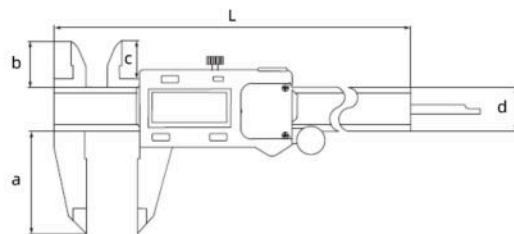
With Thumb Wheel	Without Thumb Wheel	Inch	Metric	Dimensions							
Code No.	Code No.	Range	Accuracy	Range	Accuracy	Data Output Type	L	a	b	c	d
301-06-7	301-06-6	0-6"	±.001"	0-150mm	±0.02mm	Without	235mm	40mm	20mm	15.5mm	16mm
301-08-7	301-08-6	0-8"	±.0015"	0-200mm	±0.03mm	Without	287mm	50mm	24mm	19.5mm	16mm
301-12-7	301-12-6	0-12"	±.0015"	0-300mm	±0.03mm	Without	390mm	60mm	26mm	21.5mm	16mm
301-06-8	301-06-9	0-6"	±.001"	0-150mm	±0.02mm	Bluetooth	235mm	40mm	20mm	15.5mm	16mm
301-08-8	301-08-9	0-8"	±.0015"	0-200mm	±0.03mm	Bluetooth	287mm	50mm	24mm	19.5mm	16mm
301-12-8	301-12-9	0-12"	±.0015"	0-300mm	±0.03mm	Bluetooth	390mm	60mm	26mm	21.5mm	16mm

IP67 Digital Calipers

305 Series



305-06-3

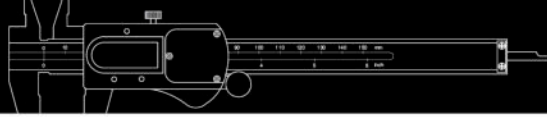


FEATURES

- Resolution: .0005"/0.01mm
- Metal housing, strong and durable
- Hold function for easy reading
- Button function: On/Off, Zero, mm/inch, ABS/INC, Hold
- Auto-On/Off
- Protection level IP67

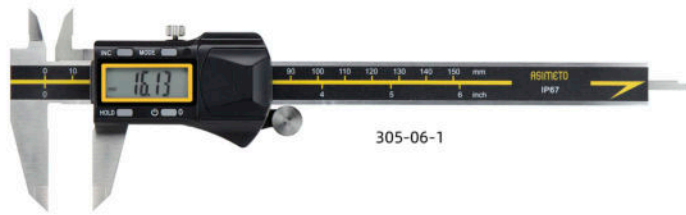


With Thumb Wheel	Without Thumb Wheel	Inch	Metric	Dimensions							
Code No.	Code No.	Range	Accuracy	Range	Accuracy	L	a	b	c	d	
305-06-3	305-06-4	0-6"	±.001"	0-150mm	±0.02mm	236mm	40mm	21mm	16.5mm	16mm	
305-08-3	305-08-4	0-8"	±.0015"	0-200mm	±0.03mm	286mm	50mm	24mm	19.5mm	16mm	
305-12-3	305-12-4	0-12"	±.0015"	0-300mm	±0.03mm	400mm	60mm	25mm	20.5mm	16mm	

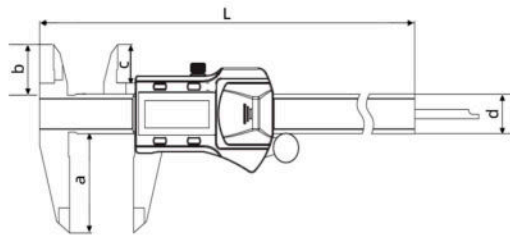


IP67 Digital Calipers

305 Series



305-06-1



FEATURES

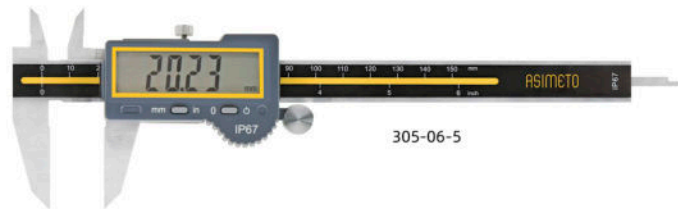
- Resolution: .0005"/0.01mm
- Plastic housing
- Hold function for easy reading
- Button function: On/Off-Zero, mm/inch, INC, Hold
- Auto-Off
- With thumb wheel
- Protection level IP67



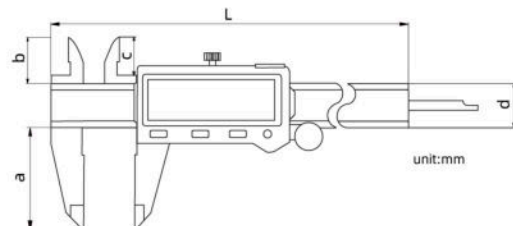
With Thumb Wheel	Without Thumb Wheel	Inch		Metric		Dimensions				
Code No.	Code No.	Range	Accuracy	Range	Accuracy	L	a	b	c	d
305-06-1	305-06-0	0-6"	±.001"	0-150mm	±0.02mm	236mm	40mm	21mm	16.5mm	16mm
305-08-1	305-08-0	0-8"	±.0015"	0-200mm	±0.03mm	286mm	50mm	24mm	19.5mm	16mm
305-12-1	305-12-0	0-12"	±.0015"	0-300mm	±0.03mm	400mm	60mm	25mm	20.5mm	16mm

IP67 Big Screen Digital Calipers

305 Series



305-06-5

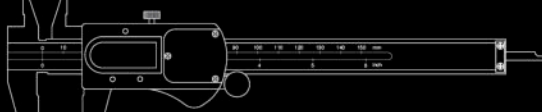


FEATURES

- Resolution: .0005"/0.01mm
- Large screen: (53.5 x 15.5mm) LCD display area
- Button function: On/Off, Zero, mm/inch
- Auto-Off
- Memory function: keep the reading when display off
- Protection level IP67



With Thumb Wheel	Without Thumb Wheel	Inch		Metric		Dimensions				
Code No.	Code No.	Range	Accuracy	Range	Accuracy	L	a	b	c	d
305-06-5	305-06-6	0-6"	±.001"	0-150mm	±0.02mm	236mm	40mm	21mm	16.5mm	16mm
305-08-5	305-08-6	0-8"	±.0015"	0-200mm	±0.03mm	286mm	50mm	24mm	19.5mm	16mm
305-12-5	305-12-6	0-12"	±.0015"	0-300mm	±0.03mm	400mm	60mm	25mm	20.5mm	16mm



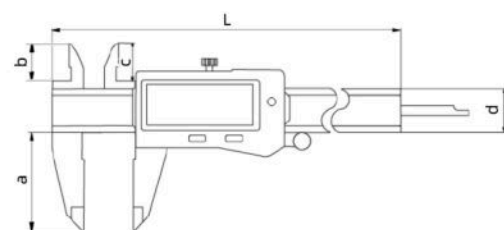
Digital Calipers

307 Series

NEW



307-06-9



FEATURES

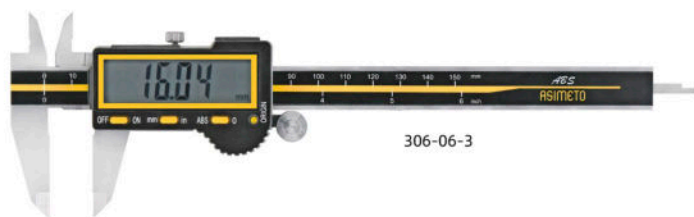
- Resolution: .0005"/0.005mm
- Buttons function: On/Off, inch/mm, Zero, Preset
- Auto-On/Off. Move the scale can turn on the caliper again
- Built-in bluetooth transmission
- Built-in rechargeable lithium battery, magnetic charging port, convenient and fast



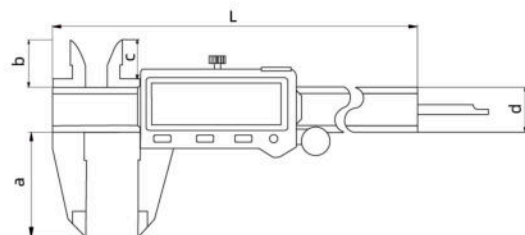
With Thumb Wheel	Without Thumb Wheel	Inch		Metric		Dimensions				
Code No.	Code No.	Range	Accuracy	Range	Accuracy	L	a	b	c	d
307-06-9	307-06-8	0-6"	±.001"	0-150mm	±0.02mm	235mm	40mm	20mm	15.5mm	16mm
307-08-9	307-08-8	0-8"	±.0015"	0-200mm	±0.03mm	287mm	50mm	24mm	19.5mm	16mm
307-12-9	307-12-8	0-12"	±.0015"	0-300mm	±0.03mm	390mm	60mm	26mm	21.5mm	16mm

Absolute Big Screen Digital Calipers

306 Series



306-06-3



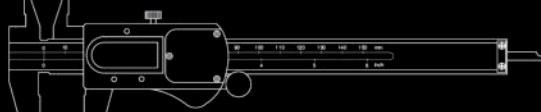
FEATURES

- Resolution: .0005"/0.01mm
- Large screen: (53.5 x 15.5mm) LCD display area
- Button function: On/Off, ABS/0, mm/inch, Origin
- Absolute system delivers reliable measurement
- Auto-Off
- Optional accessory:
 - Cable data output: 900-05-4/5
 - Bluetooth data output: 901-01-2/4
 - Wireless data output:
 - Transmitting device: 901-00-4/6
 - Receiver device: 901-00-3



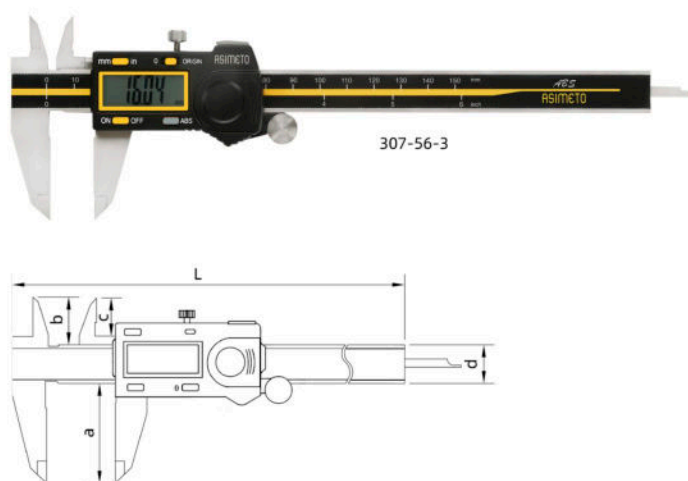
Absolute Type

With Thumb Wheel	Without Thumb Wheel	Inch		Metric		Dimensions				
Code No.	Code No.	Range	Accuracy	Range	Accuracy	L	a	b	c	d
306-06-3	306-06-4	0-6"	±.001"	0-150mm	±0.02mm	236mm	40mm	21mm	16.5mm	16mm
306-08-3	306-08-4	0-8"	±.0015"	0-200mm	±0.03mm	286mm	50mm	24mm	19.5mm	16mm
306-12-3	306-12-4	0-12"	±.0015"	0-300mm	±0.03mm	400mm	60mm	25mm	20.5mm	16mm



Absolute Digital Calipers

307 Series



FEATURES

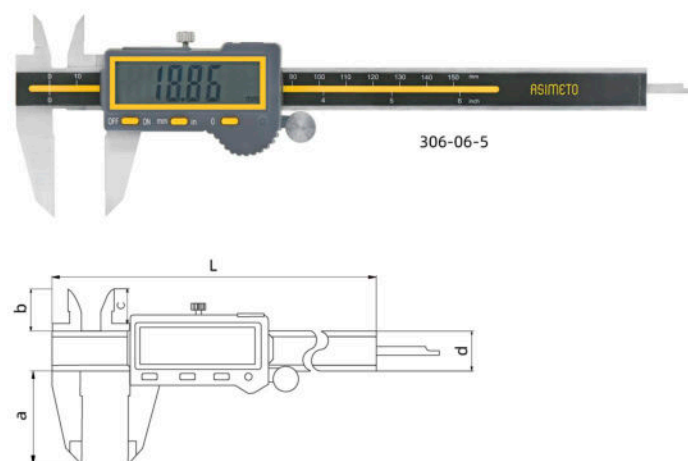
- Resolution: .0005"/0.01mm
- Button function: On/Off, ABS/0, mm/inch, Origin
- Absolute system delivers reliable measurement
- Auto-Off
- Optional accessory:
Cable data output: 900-05-4/5
Bluetooth data output: 901-01-2/4
Wireless data output:
Transmitting device: 901-00-4/6
Receiver device: 901-00-3



With Thumb Wheel	Without Thumb Wheel	Inch		Metric		Dimensions				
Code No.	Code No.	Range	Accuracy	Range	Accuracy	L	a	b	c	d
307-56-3	307-56-2	0-6"	±.001"	0-150mm	±0.02mm	236mm	40mm	21mm	16.5mm	16mm
307-58-3	307-58-2	0-8"	±.0015"	0-200mm	±0.03mm	286mm	50mm	24mm	19.5mm	16mm
307-62-3	307-62-2	0-12"	±.0015"	0-300mm	±0.03mm	400mm	60mm	25mm	20.5mm	16mm

Big Screen Digital Calipers

306 Series



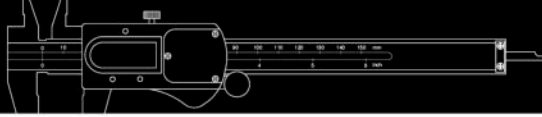
FEATURES

- Resolution: .0005"/0.01mm
- Large screen:
(53.5 x 15.5mm) LCD display area
- Button function: On/Off, Zero, mm/inch
- Auto-Off
- Optional accessory:
Cable data output: 900-06-0/1



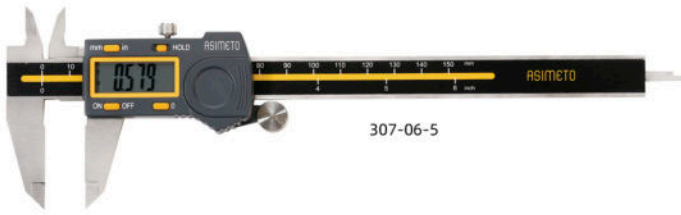
Incremental Type

With Thumb Wheel	Without Thumb Wheel	Inch		Metric		Dimensions				
Code No.	Code No.	Range	Accuracy	Range	Accuracy	L	a	b	c	d
306-06-5	306-06-6	0-6"	±.001"	0-150mm	±0.02mm	236mm	40mm	21mm	16.5mm	16mm
306-08-5	306-08-6	0-8"	±.0015"	0-200mm	±0.03mm	286mm	50mm	24mm	19.5mm	16mm
306-12-5	306-12-6	0-12"	±.0015"	0-300mm	±0.03mm	400mm	60mm	25mm	20.5mm	16mm

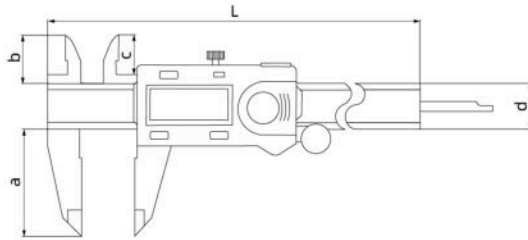


Digital Calipers (Four Buttons)

307 Series



307-06-5



FEATURES

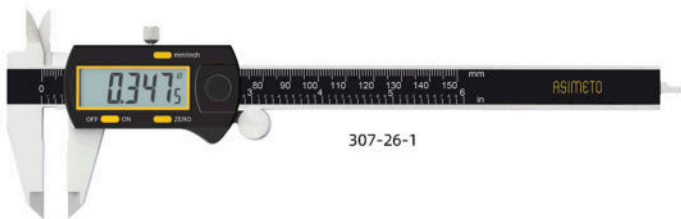
- Resolution: .0005"/0.01mm
- Button function: On/Off, Hold, mm/inch, Zero
- Auto-Off
- Optional accessory:
Cable data output: 900-06-0/1



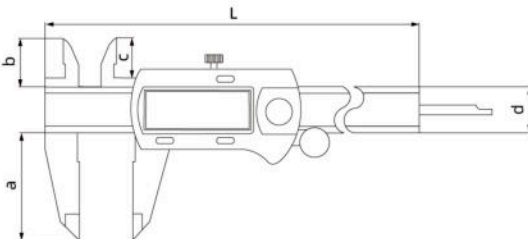
With Thumb Wheel	Without Thumb Wheel	Inch		Metric		Dimensions				
Code No.	Code No.	Range	Accuracy	Range	Accuracy	L	a	b	c	d
307-04-5	307-04-4	0-4"	±.001"	0-100mm	±0.02mm	186mm	40mm	21mm	16.5mm	16mm
307-06-5	307-06-4	0-6"	±.001"	0-150mm	±0.02mm	236mm	40mm	21mm	16.5mm	16mm
307-08-5	307-08-4	0-8"	±.0015"	0-200mm	±0.03mm	286mm	50mm	24mm	19.5mm	16mm
307-12-5	307-12-4	0-12"	±.0015"	0-300mm	±0.03mm	400mm	60mm	25mm	20.5mm	16mm

Digital Calipers (Three Buttons)

307 Series



307-26-1

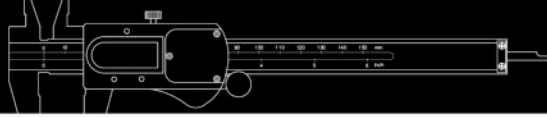


FEATURES

- Resolution: .0005"/0.01mm
- Button function: On/Off, mm/inch, Zero
- Auto-Off

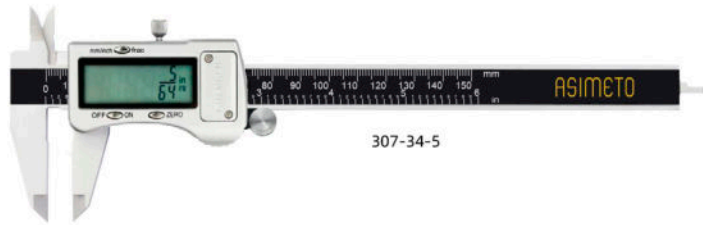


With Thumb Wheel	Without Thumb Wheel	Inch		Metric		Dimensions				
Code No.	Code No.	Range	Accuracy	Range	Accuracy	L	a	b	c	d
307-26-1	307-26-0	0-6"	±.001"	0-150mm	±0.02mm	236mm	40mm	21mm	16.5mm	16mm
307-28-1	307-28-0	0-8"	±.0015"	0-200mm	±0.03mm	286mm	50mm	24mm	19.5mm	16mm
307-32-1	307-32-0	0-12"	±.0015"	0-300mm	±0.03mm	400mm	60mm	25mm	20.5mm	16mm



Fraction Digital Calipers

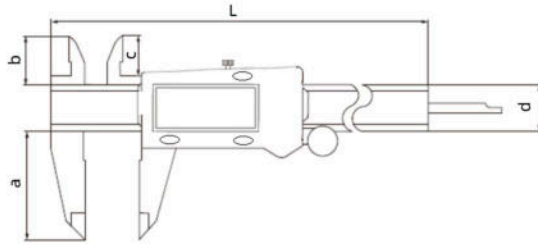
307 Series



307-34-5

FEATURES

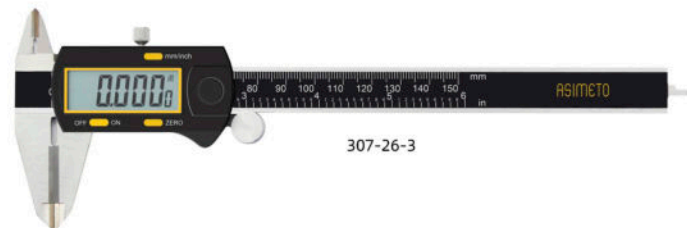
- Resolution: .0005"/1/128"/0.01mm
- Button function: On/Off, inch/mm, Zero
- Auto-On/Off. Move the scale can turn on the caliper again



	Inch		Metric							
Code No.	Range	Accuracy	Range	Accuracy	L	a	b	c	d	
307-34-5	0-6"	±.001"	0-150mm	±0.02mm	236mm	40mm	21mm	16.5mm	16mm	
307-38-5	0-8"	±.0015"	0-200mm	±0.03mm	286mm	50mm	24mm	19.5mm	16mm	
307-42-5	0-12"	±.0015"	0-300mm	±0.03mm	400mm	60mm	25mm	20.5mm	16mm	

Digital Calipers With Carbide Tipped Measuring Faces

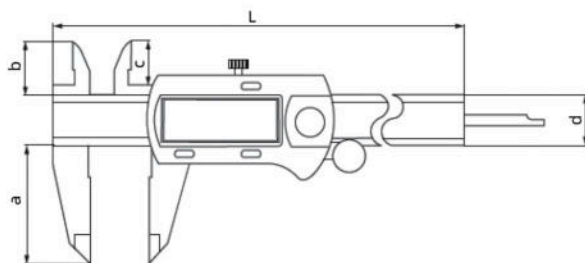
307 Series



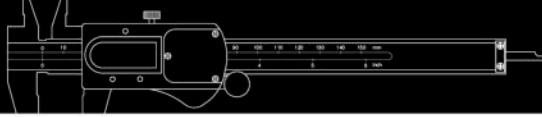
307-26-3

FEATURES

- Carbide tipped jaws for inside and outside measurement
- Resolution: .0005"/0.01mm
- Button function: On/Off, mm/inch, Zero
- Auto-Off

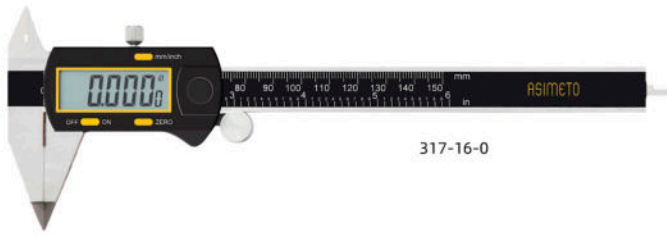


With Thumb Wheel	Without Thumb Wheel	Inch		Metric		Dimensions				
Code No.	Code No.	Range	Accuracy	Range	Accuracy	L	a	b	c	d
307-26-3	307-26-4	0-6"	±.001"	0-150mm	±0.02mm	236mm	40mm	21mm	16.5mm	16mm
307-28-3	307-28-4	0-8"	±.0015"	0-200mm	±0.03mm	286mm	50mm	24mm	19.5mm	16mm
307-32-3	307-32-4	0-12"	±.0015"	0-300mm	±0.03mm	400mm	60mm	26mm	21.5mm	16mm



Digital Calipers With Pointed Jaws

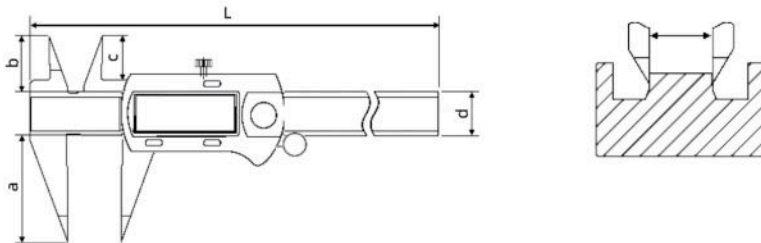
317 Series



317-16-0

FEATURES

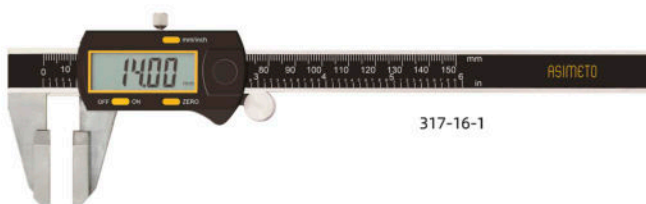
- Pointed jaws fit into small grooves and recesses
- Resolution: .0005"/0.01 mm
- Button function: On/Off, mm/inch, Zero
- Auto-Off



	Inch		Metric		Dimensions				
Code No.	Range	Accuracy	Range	Accuracy	L	a	b	c	d
317-16-0	0-6"	±.0010"	0-150mm	±0.015mm	236mm	40mm	21mm	16.5mm	16mm
317-18-0	0-8"	±.0015"	0-200mm	±0.015mm	286mm	50mm	24mm	19.5mm	16mm
317-22-0	0-12"	±.0015"	0-300mm	±0.02mm	400mm	60mm	25mm	21.5mm	16mm

Digital Calipers with Large-sized Measuring Faces

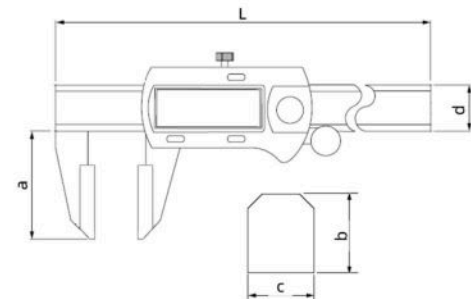
317 Series



317-16-1

FEATURES

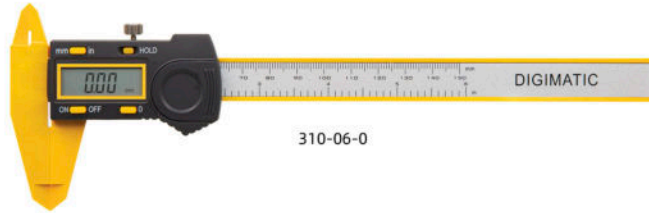
- Resolution: .0005"/0.01mm
- Measure diameter of wire ropes, and thickness of soft materials like rubber, foam, etc.
- Button function: On/Off, mm/inch, Zero
- Auto-Off



	Inch		Metric		Dimensions				
Code No.	Range	Accuracy	Range	Accuracy	L	a	b	c	d
317-16-1	0-6"	±.001"	0-150mm	±0.03mm	245mm	40mm	27mm	25mm	16mm

Carbon Fiber Digital Calipers

310 Series



310-06-0

FEATURES

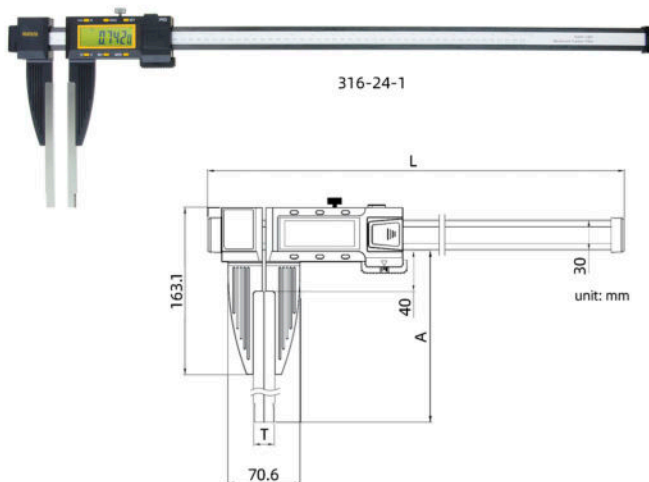
- Resolution: 0.01mm/.0005"
- Made of hard plastic, non-magnetic and non electric conductive
- Prevent workpieces from scratching by calipers
- Button function: On/Off, Hold, mm/inch, Zero
- Auto-Off



Inch			Metric		Dimensions				
Code No.	Range	Accuracy	Range	Accuracy	L	a	b	c	d
310-06-0	0-6"	±.01"	0-150mm	±0.1mm	236mm	40mm	20mm	15.5mm	16mm

IP65 Carbon Fiber Digital Calipers

316 Series



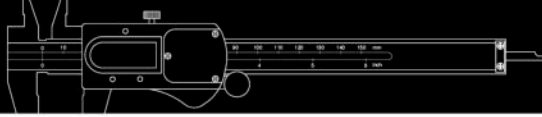
316-24-1

FEATURES

- Resolution: .0005"/0.01mm
- SPC data output
- Built-in wireless transmission
- Round measuring faces
- Button function: On/Off, INC, Zero, mm/inch, Hold, Set, Data transfer
- Auto-Off
- Main frame is made of carbon fiber
- Protection level IP65

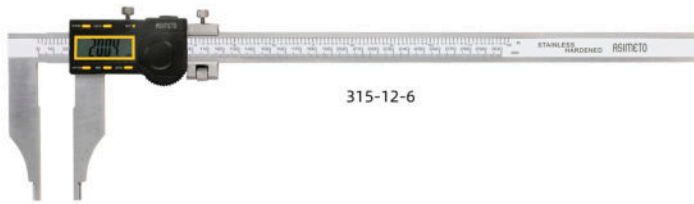


Inch			Metric			Dimensions			
Code No.	Range	Resolution	Accuracy	Range	Resolution	Accuracy	Jaw Length (A)	T	L
316-24-1	0-24"	.0005"	±.002"	0-600mm	0.01mm	0.05mm	138mm	20mm(.8")	826mm
316-24-2	0-24"	.0005"	±.003"	0-600mm	0.01mm	0.07mm	200mm	20mm(.8")	826mm
316-24-3	0-24"	.0005"	±.004"	0-600mm	0.01mm	0.10mm	300mm	20mm(.8")	826mm
316-40-1	0-40"	.0005"	±.0025"	0-1000mm	0.01mm	0.06mm	138mm	20mm(.8")	1226mm
316-40-2	0-40"	.0005"	±.004"	0-1000mm	0.01mm	0.10mm	200mm	20mm(.8")	1226mm
316-40-3	0-40"	.0005"	±.0055"	0-1000mm	0.01mm	0.13mm	300mm	20mm(.8")	1226mm
316-40-4	0-40"	.0005"	±.008"	0-1000mm	0.01mm	0.20mm	500mm	20mm(.8")	1226mm
316-60-2	0-60"	.0005"	±.0055"	0-1500mm	0.01mm	0.13mm	200mm	20mm(.8")	1736mm
316-60-3	0-60"	.0005"	±.007"	0-1500mm	0.01mm	0.17mm	300mm	20mm(.8")	1736mm
316-60-4	0-60"	.0005"	±.012"	0-1500mm	0.01mm	0.30mm	500mm	20mm(.8")	1736mm
316-80-2	0-80"	.0005"	±.007"	0-2000mm	0.01mm	0.17mm	200mm	20mm(.8")	2246mm
316-80-3	0-80"	.0005"	±.008"	0-2000mm	0.01mm	0.20mm	300mm	20mm(.8")	2246mm
316-80-4	0-80"	.0005"	±.014"	0-2000mm	0.01mm	0.35mm	500mm	20mm(.8")	2246mm

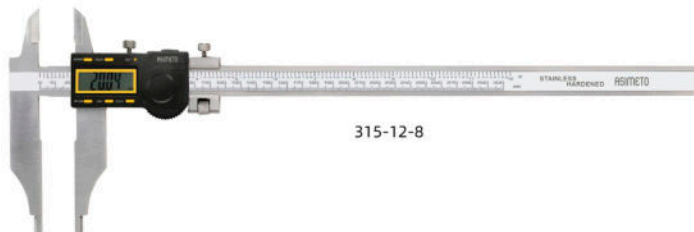


ABS Heavy Duty Digital Calipers

315 Series



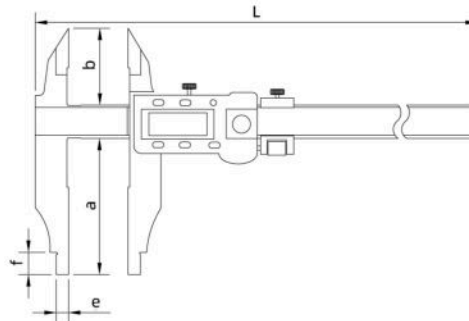
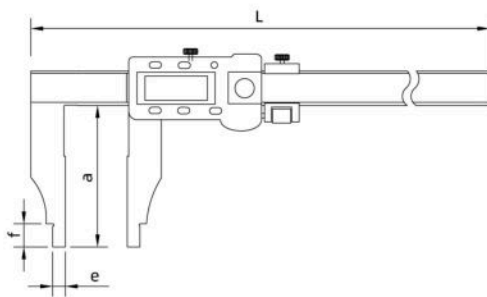
315-12-6



315-12-8

FEATURES

- Resolution: .0005"/0.01mm
- Internal measurement jaws are rounded to provide accurate measurement of internal diameters
- Absolute delivery reliable measurement
- Button function: On/Off, ABS, Zero, mm/inch, Hold, Preset
- Auto-Off
- With or without upper jaws models are available
- Optional accessory:
Cable data output: 900-05-4/5
Bluetooth data output: 901-01-2/4
Wireless data output:
Transmitting device: 901-00-4/6
Receiver device: 901-00-3

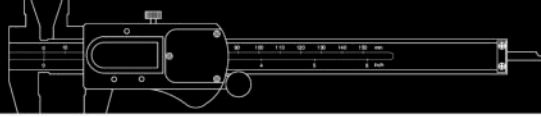


Without Upper Jaws

Inch				Metric			Dimensions				
Code No.	Range	Resolution	Accuracy	Range	Resolution	Accuracy	Jaw Length	L	a	e	f
315-12-6	0-12"	.0005"	±.0015"	0-300mm	0.01mm	±0.04mm	90mm	470mm	90mm	5mm	18mm
315-20-6	0-20"	.0005"	±.002"	0-500mm	0.01mm	±0.05mm	150mm	680mm	150mm	10mm	18mm
315-24-6	0-24"	.0005"	±.002"	0-600mm	0.01mm	±0.05mm	100mm	730mm	100mm	10mm	18mm
315-32-6	0-32"	.0005"	±.003"	0-800mm	0.01mm	±0.07mm	150mm	1030mm	150mm	10mm	25mm
315-40-6	0-40"	.0005"	±.003"	0-1000mm	0.01mm	±0.07mm	150mm	1230mm	150mm	10mm	25mm

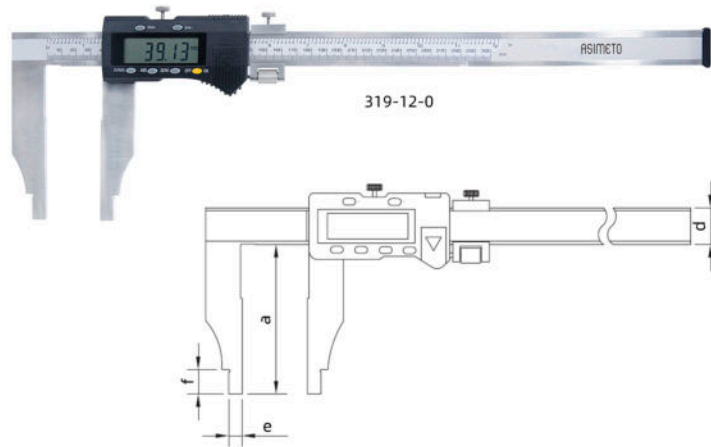
With Upper Jaws

Inch			Metric			Dimensions						
Code No.	Range	Resolution	Accuracy	Range	Resolution	Accuracy	Jaw Length	L	a	b	e	f
315-12-8	0-12"	.0005"	±.0015"	0-300mm	0.01mm	±0.04mm	90mm	470mm	90mm	38mm	5mm	18mm
315-20-8	0-20"	.0005"	±.002"	0-500mm	0.01mm	±0.05mm	150mm	680mm	150mm	60mm	10mm	18mm
315-32-8	0-32"	.0005"	±.003"	0-800mm	0.01mm	±0.07mm	150mm	1030mm	150mm	63mm	10mm	25mm
315-40-8	0-40"	.0005"	±.003"	0-1000mm	0.01mm	±0.07mm	150mm	1230mm	150mm	63mm	10mm	25mm



Heavy Duty Digital Calipers

319 Series



FEATURES

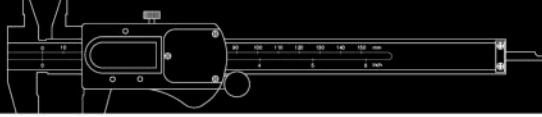
- Resolution: .0005"/0.01mm
- Button function: On/Off, ABS, Zero, mm/inch, Pre+, Pre-
- Designed with fine adjustment to allow precise movement of the slider
- Internal measurement jaws are rounded to provide accurate measurement of internal diameters
- Auto-Off
- With or without upper jaws models are available



Without Upper Jaws

Inch				Metric			Dimensions			
Code No .	Range	Resolution	Accuracy	Range	Resolution	Accuracy	Jaw Length(a)	d	e	f
319-12-11	0-12"	.0005"	±.002"	0-300mm	0.01mm	±0.04mm	3.937"	.945"	.4"	.709"
319-20-11	0-20"	.0005"	±.002"	0-500mm	0.01mm	±0.05mm	3.937"	.945"	.4"	.945"
319-24-11	0-24"	.0005"	±.002"	0-600mm	0.01mm	±0.05mm	3.937"	.945"	.4"	.945"
319-40-11	0-40"	.0005"	±.003"	0-1000mm	0.01mm	±0.08mm	5.906"	1.220"	.4"	.945"
319-60-11	0-60"	.0005"	±.005"	0-1500mm	0.01mm	±0.12mm	5.906"	1.220"	.4"	.945"

Metric				Inch			Dimensions			
Code No .	Range	Resolution	Accuracy	Range	Resolution	Accuracy	Jaw Length(a)	d	e	f
319-12-0	0-300mm	0.01mm	±0.04mm	0-12"	.0005"	±.0015"	75mm	17 mm	10mm	12mm
319-12-1	0-300mm	0.01mm	±0.04mm	0-12"	.0005"	±.0015"	100mm	24mm	10mm	18mm
319-12-2	0-300mm	0.01mm	±0.05mm	0-12"	.0005"	±.002"	150mm	24mm	10mm	18mm
319-20-1	0-500mm	0.01mm	±0.05mm	0-20"	.0005"	±.002"	100mm	24mm	10mm	24mm
319-20-2	0-500mm	0.01mm	±0.05mm	0-20"	.0005"	±.002"	150mm	24mm	10mm	24mm
319-20-3	0-500mm	0.01mm	±0.06mm	0-20"	.0005"	±.0025"	200mm	24mm	10mm	24mm
319-20-4	0-500mm	0.01mm	±0.06mm	0-20"	.0005"	±.0025"	250mm	31mm	10mm	24mm
319-20-5	0-500mm	0.01mm	±0.07mm	0-20"	.0005"	±.003"	300mm	31mm	10mm	24mm
319-24-1	0-600mm	0.01mm	±0.05mm	0-24"	.0005"	±.002"	100mm	24mm	10mm	24mm
319-24-2	0-600mm	0.01mm	±0.05mm	0-24"	.0005"	±.002"	150mm	24mm	10mm	24mm
319-24-3	0-600mm	0.01mm	±0.06mm	0-24"	.0005"	±.0025"	200mm	24mm	10mm	24mm
319-24-4	0-600mm	0.01mm	±0.06mm	0-24"	.0005"	±.0025"	250mm	31mm	10mm	24mm
319-24-5	0-600mm	0.01mm	±0.08mm	0-24"	.0005"	±.003"	300mm	31mm	10mm	24mm
319-32-2	0-800mm	0.01mm	±0.07mm	0-32"	.0005"	±.003"	150mm	31mm	10mm	24mm
319-32-3	0-800mm	0.01mm	±0.08mm	0-32"	.0005"	±.003"	200mm	31mm	10mm	24mm
319-32-4	0-800mm	0.01mm	±0.10mm	0-32"	.0005"	±.004"	250mm	31mm	10mm	24mm
319-32-5	0-800mm	0.01mm	±0.10mm	0-32"	.0005"	±.004"	300mm	31mm	10mm	24mm
319-40-2	0-1000mm	0.01mm	±0.07mm	0-40"	.0005"	±.003"	150mm	31mm	10mm	24mm
319-40-3	0-1000mm	0.01mm	±0.08mm	0-40"	.0005"	±.003"	200mm	31mm	10mm	24mm
319-40-4	0-1000mm	0.01mm	±0.10mm	0-40"	.0005"	±.004"	250mm	42mm	10mm	24mm
319-40-5	0-1000mm	0.01mm	±0.10mm	0-40"	.0005"	±.004"	300mm	42mm	10mm	24mm
319-60-3	0-1500mm	0.01mm	±0.12mm	0-60"	.0005"	±.005"	200mm	31mm	10mm	24mm
319-80-3	0-2000mm	0.01mm	±0.12mm	0-80"	.0005"	±.005"	200mm	31mm	10mm	24mm

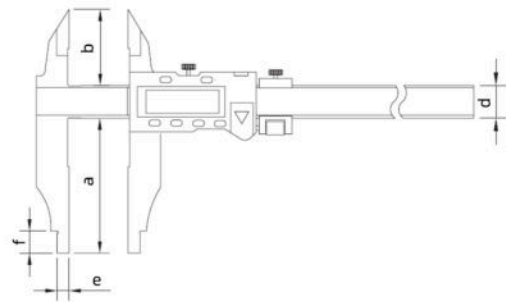


Heavy Duty Digital Calipers

319 Series



319-12-6



FEATURES

- Resolution: .0005"/0.01mm
- Button function: On/Off, ABS, Zero, mm/inch, Pre+, Pre-
- Designed with fine adjustment to allow precise movement of the slider
- Internal measurement jaws are rounded to provide accurate measurement of internal diameters
- Auto-Off



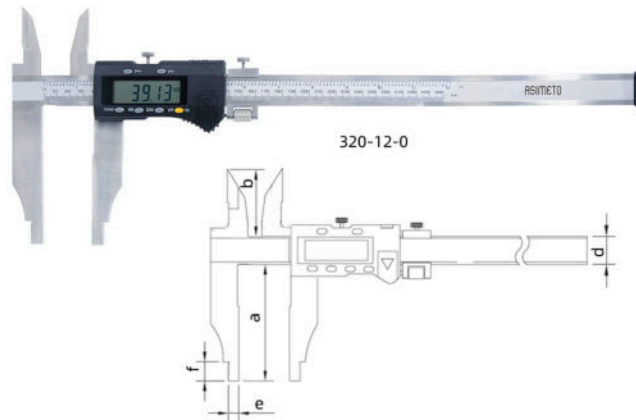
With Upper Jaws

Inch				Metric			Dimensions				
Code No.	Range	Resolution	Accuracy	Range	Resolution	Accuracy	Jaw Length (a)	b	d	e	f
319-12-61	0-12"	.0005"	±.0015"	0-300mm	0.01mm	±0.04mm	3.937"	1.810"	.945"	.4"	.709"
319-20-61	0-20"	.0005"	±.002"	0-500mm	0.01mm	±0.05mm	3.937"	1.810"	.945"	.4"	.709"
319-24-61	0-24"	.0005"	±.002"	0-600mm	0.01mm	±0.05mm	3.937"	1.810"	.945"	.4"	.945"
319-40-61	0-40"	.0005"	±.003"	0-1000mm	0.01mm	±0.07mm	5.906"	2.638"	1.220"	.4"	.945"

Metric				Inch			Dimensions				
Code No.	Range	Resolution	Accuracy	Range	Resolution	Accuracy	Jaw Length (a)	b	d	e	f
319-12-6	0-300mm	0.01mm	±0.04mm	0-12"	.0005"	±.0015"	90mm	46mm	24mm	10mm	18mm
319-20-6	0-500mm	0.01mm	±0.05mm	0-20"	.0005"	±.002"	100mm	46mm	24mm	10mm	18mm
319-20-7	0-500mm	0.01mm	±0.05mm	0-20"	.0005"	±.002"	150mm	46mm	24mm	10mm	24mm
319-24-6	0-600mm	0.01mm	±0.05mm	0-24"	.0005"	±.002"	100mm	46mm	24mm	10mm	24mm
319-24-7	0-600mm	0.01mm	±0.06mm	0-24"	.0005"	±.002"	150mm	46mm	24mm	10mm	24mm
319-32-6	0-800mm	0.01mm	±0.07mm	0-32"	.0005"	±.003"	150mm	60mm	31mm	10mm	24mm
319-32-7	0-800mm	0.01mm	±0.07mm	0-32"	.0005"	±.003"	200mm	60mm	31mm	10mm	24mm
319-40-6	0-1000mm	0.01mm	±0.07mm	0-40"	.0005"	±.003"	150mm	60mm	31mm	10mm	24mm
319-40-7	0-1000mm	0.01mm	±0.07mm	0-40"	.0005"	±.003"	200mm	60mm	31mm	10mm	24mm

Heavy Duty Digital Calipers With Inside Measuring Jaws

320 Series



FEATURES

- Resolution: .0005"/0.01mm
- Button function: On/Off, ABS, Zero, mm/inch, Pre+, Pre-
- Designed with fine adjustment to allow precise movement of the slider
- Nib shaped jaws for ID and OD measurement, carrying upper jaws for ID measurements
- Auto-Off



Inch				Metric			Dimensions				
Code No.	Range	Resolution	Accuracy	Range	Resolution	Accuracy	Jaw Length (a)	b	d	e	f
320-12-1	0-12"	.0005"	±.0015"	0-300mm	0.01mm	±0.04mm	3.543"	1.772"	.787"	.4"	.709"
320-20-1	0-20"	.0005"	±.002"	0-500mm	0.01mm	±0.05mm	3.937"	1.772"	.945"	.4"	.709"
320-24-1	0-24"	.0005"	±.002"	0-600mm	0.01mm	±0.05mm	3.937"	2.362"	.945"	.4"	.709"
320-40-1	0-40"	.0005"	±.003"	0-1000mm	0.01mm	±0.07mm	5.906"	2.362"	1.220"	.4"	.945"

Metric				Inch			Dimensions				
Code No.	Range	Resolution	Accuracy	Range	Resolution	Accuracy	Jaw Length (a)	b	d	e	f
320-12-0	0-300mm	0.01mm	±0.04mm	0-12"	.0005"	±.002"	90mm	45mm	20mm	10mm	18mm
320-20-0	0-500mm	0.01mm	±0.05mm	0-20"	.0005"	±.002"	100mm	45mm	24mm	10mm	18mm
320-24-0	0-600mm	0.01mm	±0.05mm	0-24"	.0005"	±.002"	100mm	60mm	24mm	10mm	18mm
320-32-0	0-800mm	0.01mm	±0.07mm	0-32"	.0005"	±.003"	150mm	60mm	31mm	10mm	24mm
320-40-0	0-1000mm	0.01mm	±0.07mm	0-40"	.0005"	±.003"	150mm	60mm	31mm	10mm	24mm

Heavy Duty Digital Calipers With Standard Jaws

320 Series

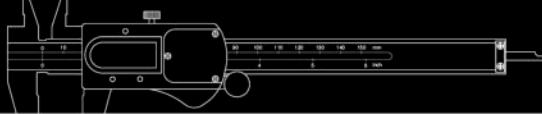


FEATURES

- Resolution: .0005"/0.01mm
- Button function: On/Off, ABS, Zero, mm/inch, Pre+, Pre-
- Designed with fine adjustment to allow precise movement of the slider
- Nib shaped jaws for ID and OD measurement, carrying upper jaws for ID measurements
- Auto-Off

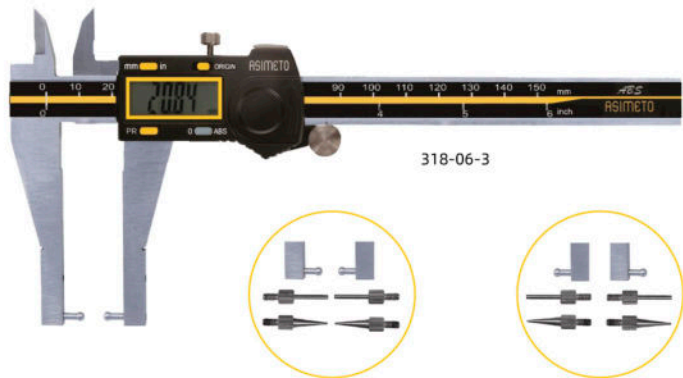


Metric				Inch			Dimensions			
Code No.	Range	Resolution	Accuracy	Range	Resolution	Accuracy	Jaw Length (a)	b	d	
320-12-6	0-300mm	0.01mm	±0.04mm	0-12"	.0005"	±.0015"	90mm	45mm	20mm	
320-20-6	0-500mm	0.01mm	±0.05mm	0-20"	.0005"	±.002"	100mm	45mm	24mm	
320-24-6	0-600mm	0.01mm	±0.05mm	0-24"	.0005"	±.002"	100mm	45mm	24mm	
320-32-6	0-800mm	0.01mm	±0.07mm	0-32"	.0005"	±.003"	150mm	60mm	31mm	
320-40-6	0-1000mm	0.01mm	±0.07mm	0-40"	.0005"	±.003"	150mm	60mm	31mm	



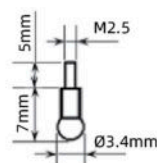
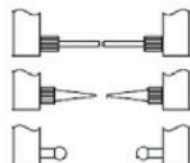
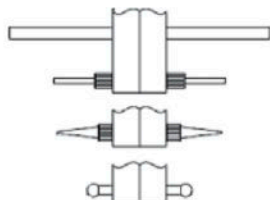
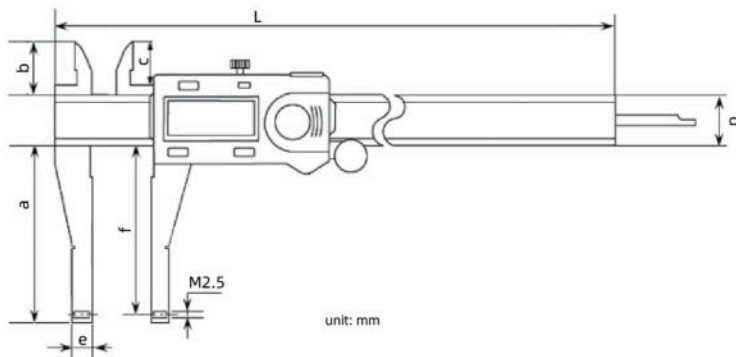
Multi-function Digital Calipers

318 Series

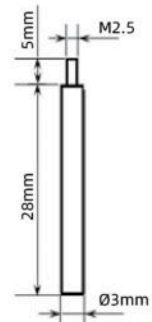
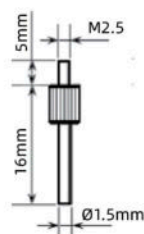
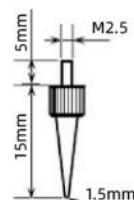


FEATURES

- Resolution: .0005"/0.01mm
- With preset value function, the initial value can be set arbitrarily
- Button function: ABS/0, mm/inch, Origin, Preset
- Absolute system delivers reliable measurement
- Auto-Off
- Optional accessory:
Cable data output: 900-05-4/5
Bluetooth data output: 901-01-2/4
Wireless data output:
Transmitting device: 901-00-4/6
Receiver device: 901-00-3



unit: mm



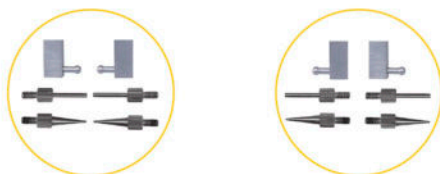
With Thumb Wheel	Without Thumb Wheel	Inch	Metric		Dimensions							
Code No.	Code No.	Range	Accuracy	Range	Accuracy	L	a	b	c	d	e	f
318-06-3	318-06-2	0-6"	±.001"	0-150mm	±0.03mm	235mm	67.2mm	22.55mm	18mm	16mm	7.5mm	64.2mm
318-08-3	318-08-2	0-8"	±.0015"	0-200mm	±0.03mm	287mm	67.2mm	22.55mm	18mm	16mm	7.5mm	64.2mm
318-12-3	318-12-2	0-12"	±.0015"	0-300mm	±0.04mm	390mm	67.2mm	22.55mm	18mm	16mm	7.5mm	64.2mm

ABS Multi-function Digital Calipers

318 Series

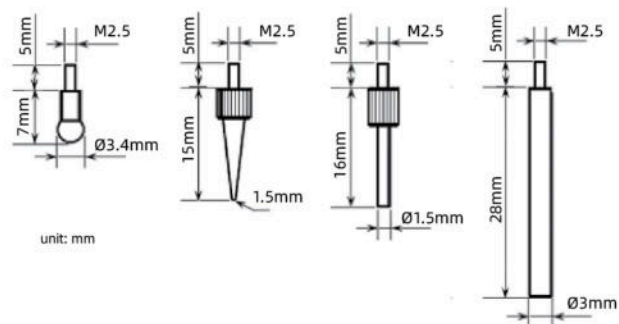
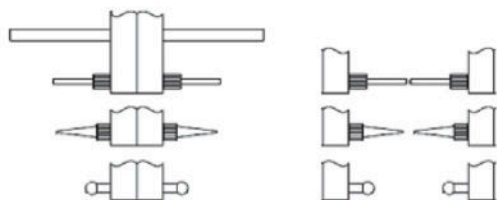
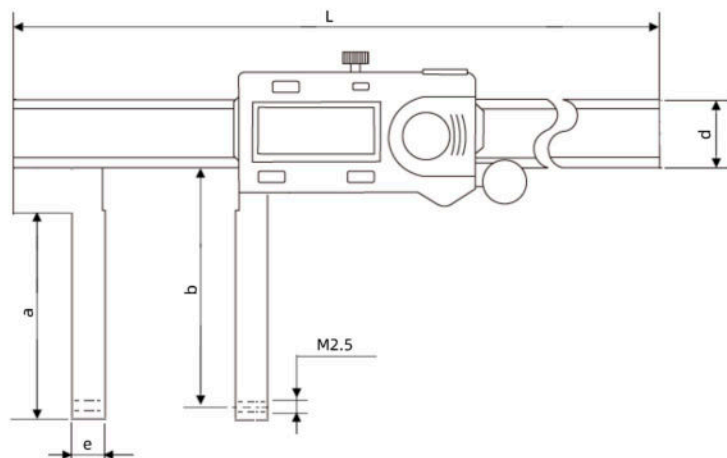


318-06-0



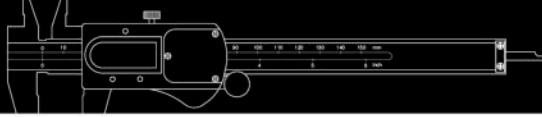
FEATURES

- Resolution: .0005"/0.01mm
- With preset value function, the initial value can be set arbitrarily
- Button function: ABS/0, mm/inch, Origin, Preset
- Absolute system delivers reliable measurement
- Auto-Off
- Optional accessory:
 - Cable data output: 900-05-4/5
 - Bluetooth data output: 901-01-2/4
 - Wireless data output:
 - Transmitting device: 901-00-4/6
 - Receiver device: 901-00-3



unit: mm

Inch			Metric		Dimensions				
Code No.	Range	Accuracy	Range	Accuracy	L	a	b	d	e
318-06-0	0-6"	±.001"	0-150mm	±0.02mm	235mm	57.4mm	50mm	16mm	7.0mm
318-08-0	0-8"	±.0015"	0-200mm	±0.03mm	287mm	57.4mm	50mm	16mm	7.0mm
318-12-0	0-12"	±.0015"	0-300mm	±0.04mm	390mm	57.4mm	50mm	16mm	7.0mm



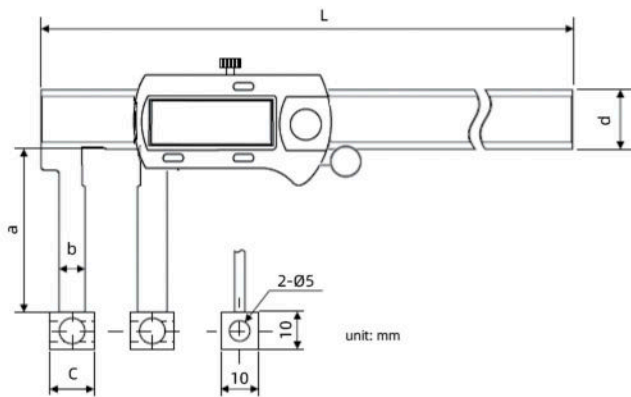
Universal Digital Calipers With Exchangeable Measuring Points 317 Series



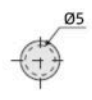
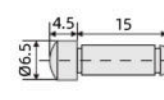
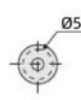
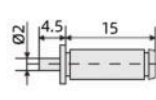
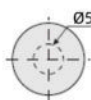
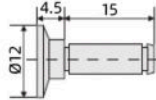
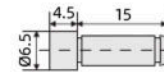
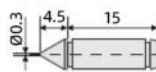
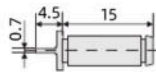
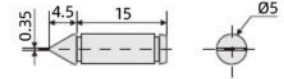
317-06-3

FEATURES

- Resolution: .0005"/0.01mm
- Various exchangeable measuring tips for option
- Used for ID, OD and Thickness measurements
- Button function: On/Off, mm/inch, Zero
- Auto-Off

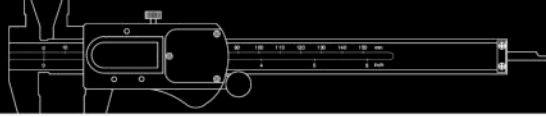


unit: mm



unit: mm

Inch			Metric		Dimensions				
Code No.	Range	Accuracy	Range	Accuracy	L	a	b	c	d
317-06-3	0-6"	±.003"	0-150mm	±0.04mm	250mm	45mm	7mm	12.0mm	16mm
317-08-3	0-8"	±.003"	0-200mm	±0.04mm	310mm	85mm	10mm	12.0mm	16mm
317-12-3	0-12"	±.004"	0-300mm	±0.05mm	410mm	100mm	15mm	12.0mm	16mm

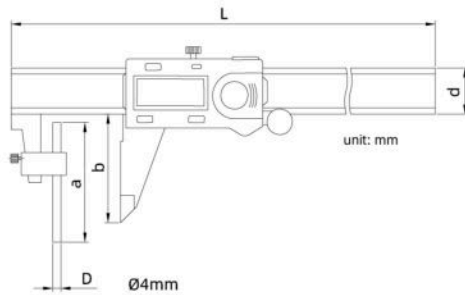


ABS Digital Tube Calipers

316 Series



316-06-2



FEATURES

- Resolution: .0005"/0.01mm
- The design incorporates a cylindrical jaw and a normal jaw on the slider and it is used for tubular wall thickness measurement
- Button function: On/Off, ABS, mm/inch, Origin
- Absolute system delivers reliable measurement
- Auto-Off
- Optional accessory:
 - Cable data output: 900-05-4/5
 - Bluetooth data output: 901-01-2/4
 - Wireless data output:
 - Transmitting device: 901-00-4/6
 - Receiver device: 901-00-3



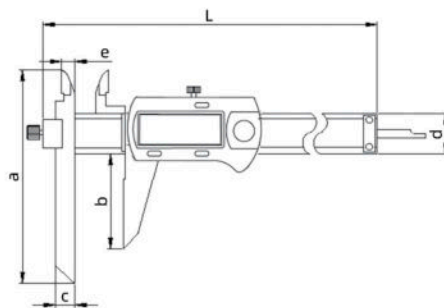
Inch			Metric		Dimensions			
Code No.	Range	Accuracy	Range	Accuracy	L	a	b	d
316-06-2	0-6"	±.001"	0-150mm	±0.03mm	250mm	40mm	30mm	16mm
316-08-2	0-8"	±.0015"	0-200mm	±0.04mm	300mm	50mm	40mm	16mm
316-12-2	0-12"	±.0015"	0-300mm	±0.04mm	400mm	66mm	50mm	16mm

Digital Calipers With Adjustable Measuring Jaw

317 Series



317-06-2

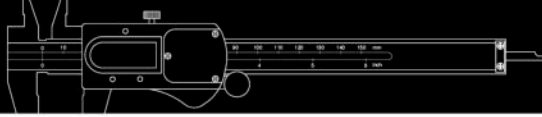


FEATURES

- Resolution: .0005"/0.01mm
- Specific jaw with vertical movement allows measuring various steps of different heights
- Button function: On/Off, mm/inch, Zero
- Auto-Off

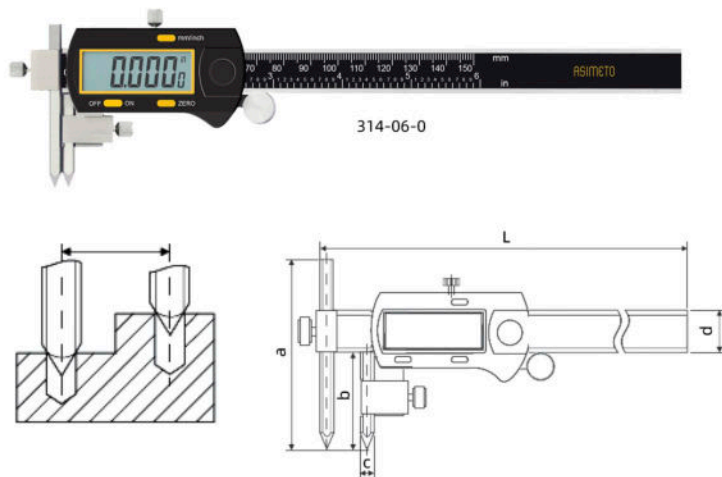


Inch		Metric		Dimensions						
Code No.	Range	Accuracy	Range	Accuracy	L	a	b	c	d	e
317-06-2	0-6"	±.001"	0-150mm	±0.03mm	239mm	110mm	40mm	10mm	16mm	7mm
317-08-2	0-8"	±.0015"	0-200mm	±0.04mm	289mm	120mm	50mm	10mm	16mm	7mm
317-12-2	0-12"	±.0015"	0-300mm	±0.04mm	389mm	130mm	60mm	10mm	16mm	7mm



Center Distance Digital Calipers

314 Series



FEATURES

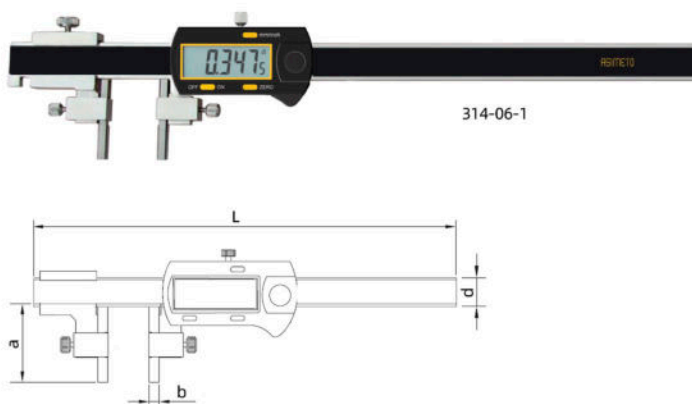
- Resolution: .0005"/0.01mm
- Used for measuring hole C-to-C and E-to-C distances
- Button function: On/Off, mm/inch, Zero
- Auto-Off



Inch			Metric		Dimensions				
Code No.	Range	Accuracy	Range	Accuracy	L	a	b	c	d
314-06-0	.4-6"	±.0015"	10-150mm	±0.04mm	246mm	100mm	60mm	10mm	16mm
314-08-0	.4-8"	±.0015"	10-200mm	±0.04mm	295mm	100mm	60mm	10mm	16mm
314-12-0	.4-12"	±.002"	10-300mm	±0.05mm	395mm	100mm	60mm	10mm	16mm
314-20-0	.4-20"	±.002"	10-500mm	±0.05mm	710mm	100mm	45mm	10mm	24mm
314-40-0	.8-40"	±.004"	20-1000mm	±0.10mm	1240mm	125mm	55mm	20mm	31mm

Digital Cylindrical Head Center Distance Calipers

314 Series

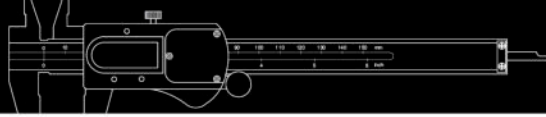


FEATURES

- Resolution: .0005"/0.01mm
- Measure hole center distance
- Buttons: On/Off, Zero, mm/inch
- Auto-Off



Inch			Metric		Dimensions			
Code No.	Range	Accuracy	Range	Accuracy	L	a	b	d
314-06-1	.197-6"	±.0015"	5-150mm	±0.04mm	426mm	35mm	Ø5mm	16mm
314-08-1	.197-8"	±.0015"	5-200mm	±0.04mm	526mm	35mm	Ø5mm	16mm
314-12-1	.197-12"	±.003"	5-300mm	±0.05mm	726mm	35mm	Ø5mm	16mm

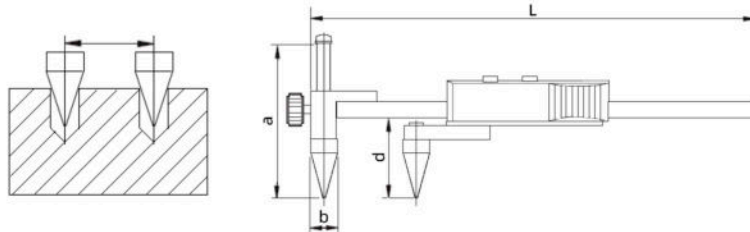


Digital Back-Jaw Distance Calipers

314 Series



314-06-2



FEATURES

- Resolution: .0005"/0.01mm
- For same or offset planes hole center distance measurement
- Button function: On/Off, mm/inch, Zero
- Auto-Off



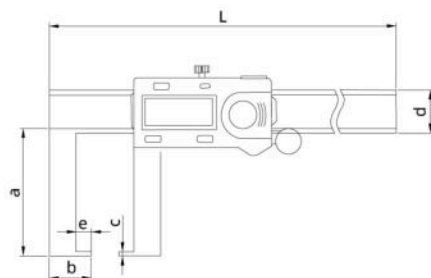
Inch			Metric		Dimensions			
Code No.	Range	Accuracy	Range	Accuracy	L	a	b	d
314-06-2	.394-6"	±.0015"	10-150mm	±0.04mm	280mm	64mm	Ø10mm	30mm
314-08-2	.394-8"	±.0015"	10-200mm	±0.04mm	330mm	64mm	Ø10mm	30mm
314-12-2	.394-12"	±.002"	10-300mm	±0.05mm	430mm	64mm	Ø10mm	30mm

ABS Digital Calipers For Outside Grooves

309 Series



309-06-3



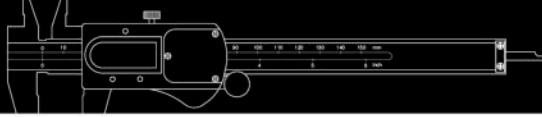
FEATURES

- Resolution: .0005"/0.01mm
- Button function: On/Off, ABS, mm/inch, Origin
- Absolute system delivers reliable measurement
- Auto-Off
- Optional accessory:
 - Cable data output: 900-05-4/5
 - Bluetooth data output: 901-01-2/4
 - Wireless data output:
 - Transmitting device: 901-00-4/6
 - Receiver device: 901-00-3



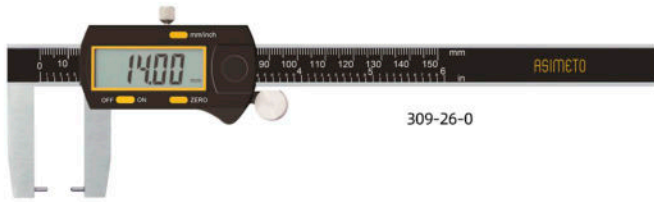
Outside Grooves

Inch			Metric		Dimensions					
Code No.	Range	Accuracy	Range	Accuracy	L	a	b	c	d	e
309-06-3	0-6"	±.001"	0-150mm	±0.03mm	250mm	40mm	15mm	1mm	16mm	5mm
309-08-3	0-8"	±.0015"	0-200mm	±0.04mm	300mm	50mm	19mm	1mm	16mm	7mm
309-12-3	0-12"	±.0015"	0-300mm	±0.04mm	405mm	60mm	21mm	2mm	16mm	10mm

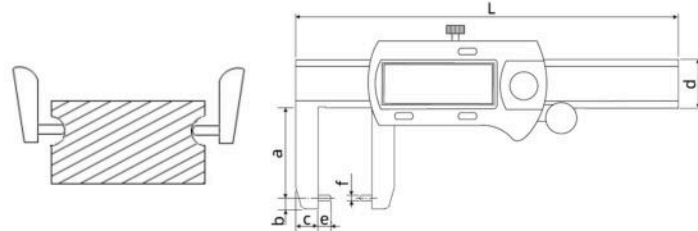


Digital Outside Point Calipers

309 Series



309-26-0



FEATURES

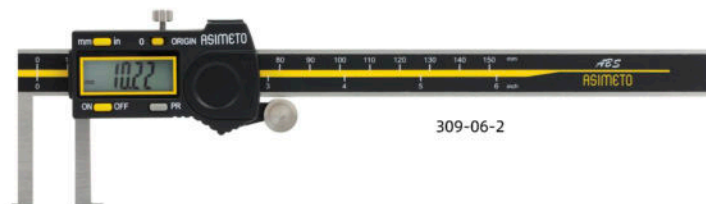
- Resolution: .0005"/0.01mm
- Used for inside bores and recesses wall thickness measurement
- Button function: On/Off, mm/inch, Zero
- Auto-Off



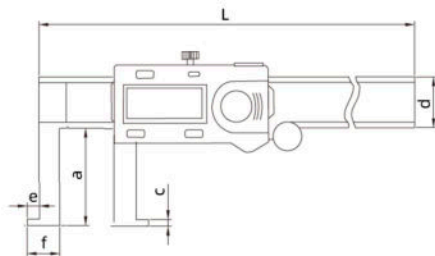
Inch		Metric		Dimensions							
Code No.	Range	Accuracy	Range	Accuracy	L	a	b	c	d	e	f
309-26-0	0-6"	±.001"	0-150mm	±0.03mm	250mm	40mm	3mm	10mm	16mm	5mm	Ø2mm
309-28-0	0-8"	±.0015"	0-200mm	±0.04mm	310mm	50mm	3mm	12mm	16mm	7mm	Ø2mm
309-32-0	0-12"	±.0015"	0-300mm	±0.05mm	410mm	60mm	3mm	13mm	16mm	8mm	Ø3mm

ABS Digital Calipers For Inside Grooves

309 Series



309-06-2

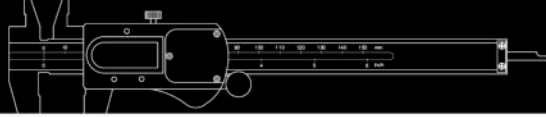


FEATURES

- Resolution: .0005"/0.01mm
- Button function: Preset, ABS/0, mm/inch, Origin
- Absolute system delivers reliable measurement
- Auto-Off
- Optional accessory:
 - Cable data output: 900-05-4/5
 - Bluetooth data output: 901-01-2/4
 - Wireless data output:
 - Transmitting device: 901-00-4/6
 - Receiver device: 901-00-3

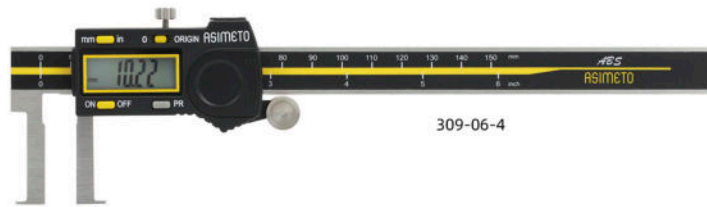


Inch		Metric								
Code No.	Range	Accuracy	Range	Accuracy	L	a	c	e	f	
309-06-2	.4-6"	±.001"	10-150mm	±0.03mm	235mm	46mm	1mm	4mm	10mm	
309-08-2	.43-8"	±.0015"	11-200mm	±0.04mm	287mm	56mm	1mm	5mm	11mm	
309-12-2	.47-12"	±.0015"	12-300mm	±0.04mm	390mm	66mm	1.5mm	5mm	12mm	

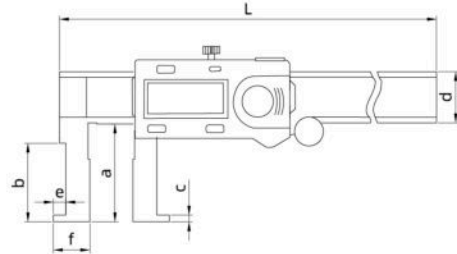


ABS Digital Calipers For Inside Grooves

309 Series



309-06-4



FEATURES

- Resolution: .0005"/0.01mm
- Button function: Preset, ABS/0, mm/inch, Origin
- Absolute system delivers reliable measurement
- Auto-Off
- Optional accessory:
Cable data output: 900-05-4/5
Bluetooth data output: 901-01-2/4
Wireless data output:
Transmitting device: 901-00-4/6
Receiver device: 901-00-3

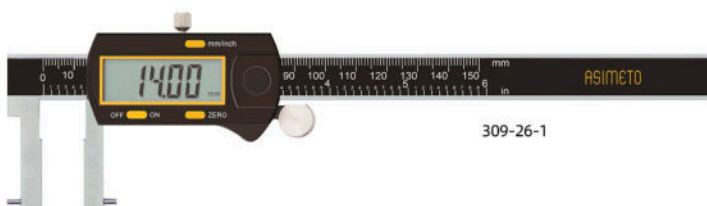


Inside Grooves

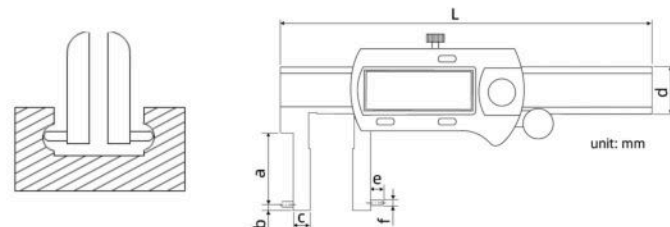
Inch		Metric		Dimensions							
Code No.	Range	Accuracy	Range	Accuracy	L	a	b	c	d	e	f
309-06-4	0.8-6"	±.001"	20-150mm	±0.03mm	235mm	36mm	29mm	1mm	16mm	4mm	10mm
309-08-4	1-8"	±.0015"	25-200mm	±0.04mm	287mm	46mm	40mm	1.5mm	16mm	5mm	12.5mm
309-12-4	1.2-12"	±.0015"	30-300mm	±0.04mm	390mm	56mm	48mm	1.5mm	16mm	5mm	15mm

Digital Inside Point Calipers

309 Series



309-26-1

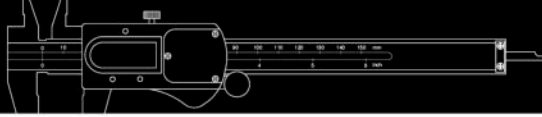


FEATURES

- Resolution: .0005"/0.01mm
- Measure groove diameter
- Button function: On/Off, mm/inch, Zero
- Auto-Off



Inch		Metric		Dimensions							
Code No.	Range	Accuracy	Range	Accuracy	L	a	b	c	d	e	f
309-26-1	.945-6"	±.001"	24-150mm	±0.03mm	250mm	30mm	3mm	7mm	16mm	5mm	Ø2mm
309-28-1	.984-8"	±.0015"	25-200mm	±0.04mm	310mm	40mm	3mm	7.5mm	16mm	5mm	Ø2mm
309-32-1	1.181-12"	±.0015"	30-300mm	±0.04mm	410mm	50mm	3mm	10mm	16mm	5mm	Ø2mm

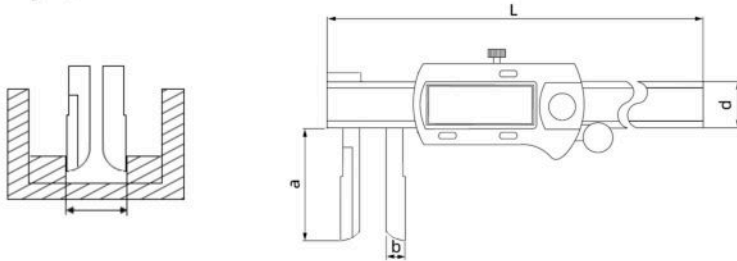


Digital Calipers With Long Internal Measuring Jaws

309 Series



309-26-9



FEATURES

- Resolution: .0005"/0.01mm
- Measure deep step holes diameter
- Button function: On/Off, mm/inch, Zero
- Auto-Off



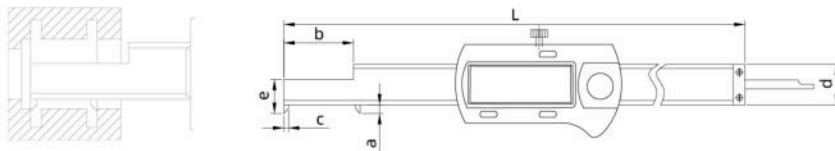
Inch			Metric		Dimensions			
Code No.	Range	Accuracy	Range	Accuracy	L	a	b	d
309-26-9	.59-6"	±.001"	15-150mm	±0.03mm	250mm	60mm	12mm	16mm
309-28-9	.67-8"	±.0015"	17-200mm	±0.04mm	305mm	75mm	14mm	16mm
309-32-9	.709-12"	±.0015"	18-300mm	±0.04mm	410mm	90mm	15mm	16mm

Hook Type Digital Calipers

325 Series



325-05-2

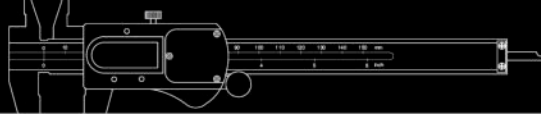


FEATURES

- Resolution: .0005"/0.01mm
- For small workpieces dimensions measurement
- Button function: On/Off, mm/inch, Zero
- Auto-Off



Inch			Metric			Dimensions						
Code No.	Range	Resolution	Accuracy	Range	Resolution	Accuracy	L	a	b	c	d	e
325-05-2	.12-5"	.0005"	±.001"	3-125mm	0.01mm	±0.03mm	235mm	4mm	24mm	3mm	12.5mm	12mm
325-06-2	.12-6"	.0005"	±.001"	3-150mm	0.01mm	±0.03mm	260mm	4mm	24mm	3mm	12.5mm	12mm
325-08-2	.12-8"	.0005"	±.001"	3-200mm	0.01mm	±0.03mm	310mm	4mm	24mm	3mm	12.5mm	12mm
325-12-2	.16-12"	.0005"	±.0015"	4-300mm	0.01mm	±0.04mm	466mm	5mm	86mm	4mm	15mm	14mm



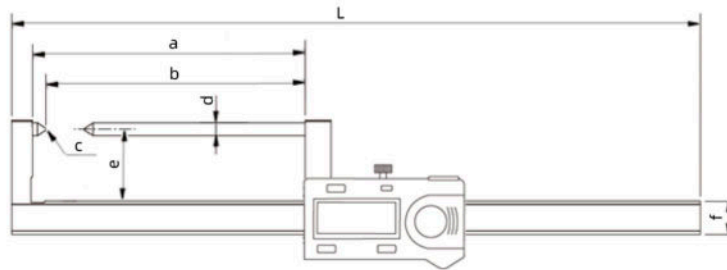
Digital Disc Brake Caliper

317 series

NEW



317-03-2



FEATURES

- Resolution: .0005"/0.01mm
- Button function: On/Off, Hold, mm/inch, Zero
- Digital Disc Brake Caliper: Mainly used to measure the thickness of brake pads, such as those for automotive brake pads, high-speed rail, and metro brake pads.
- Auto-Off
- Optional accessory:
Cable data output: 900-06-0/1



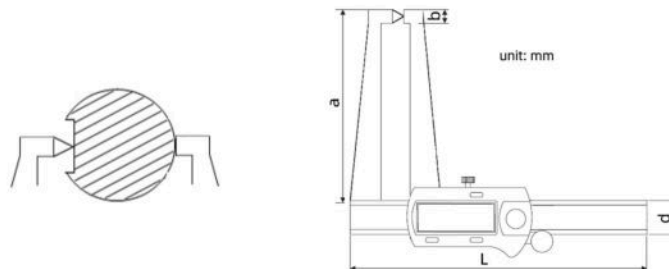
Inch				Metric			Dimensions						
Code No.	Range	Resolution	Accuracy	Range	Resolution	Accuracy	L	a	b	c	d	e	f
317-03-2	0-3.2"	.0005"	±.001"	0-80mm	0.01mm	±0.02mm	265mm	105mm	100mm	ø1mm	5mm	27.9mm	13mm

Digital Calipers With Single Measuring Tip

317 Series



317-16-2

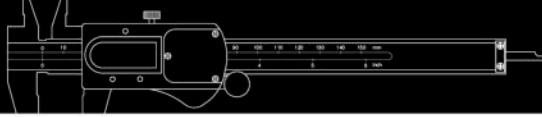


FEATURES

- Resolution: .0005"/0.01mm
- Thickness of disc brake, thickness of groove (e.g. keyways) measurement
- Button function: On/Off, mm/inch, Zero
- Auto-Off



Inch			Metric		Dimensions			
Code No.	Range	Accuracy	Range	Accuracy	L	a	b	d
317-13-2	0-3"	±.001"	0-75mm	±0.03mm	178mm	93mm	6mm	16mm
317-15-2	0-5"	±.001"	0-125mm	±0.03mm	230mm	93mm	6mm	16mm
317-16-2	0-6"	±.001"	0-150mm	±0.03mm	266mm	93mm	6mm	16mm

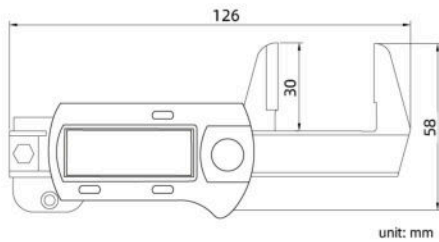


Digital Gauges With Single Wide Measuring Face

325 Series



325-36-2



unit: mm

FEATURES

- Resolution: .0005"/0.01mm
- Easy operation and used for the measurement of small work pieces
- Button function: On/Off, mm/inch, Zero
- Auto-Off



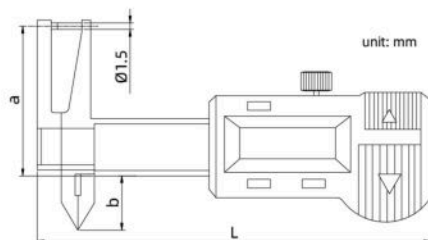
	Inch		Metric	
Code No.	Range	Accuracy	Range	Accuracy
325-36-2	0-1.2	±.001"	0-30mm	±0.02mm

Mini-Type 3-Purpose Digital Calipers

305 Series



305-40-0



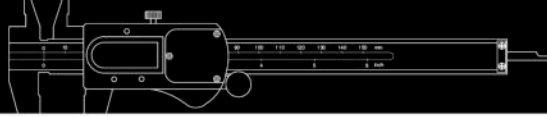
unit: mm

FEATURES

- Resolution: .0005"/0.01mm
- For small workpieces dimensions measurement
- Buttons function: On/Off, Zero, mm/inch
- Auto-Off



	Inch			Metric			Dimensions		
Code No.	Range	Resolution	Accuracy	Range	Resolution	Accuracy	L	a	b
305-40-0	0-.6"	.0005"	±.001"	0-12mm	0.01mm	±0.02mm	77mm	33.2mm	12.5mm
305-42-0	0-1"	.0005"	±.001"	0-25mm	0.01mm	±0.02mm	87mm	33.2mm	12.5mm



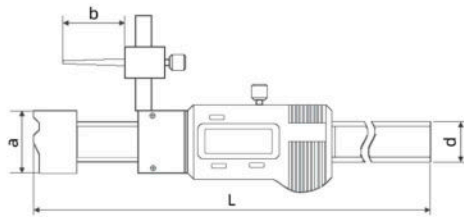
Special Jaws Digital Calipers

080 Series



FEATURES

- Resolution: .0005"/0.01mm
- Button function: On/Off, mm/inch, Zero
- Auto-Off



Inch			Metric		Dimensions			
Code No.	Range	Accuracy	Range	Accuracy	L	a	b	d
080-02-0	-.4-1.2"	±.001"	-10-30mm	±0.02mm	132mm	20mm	21mm	13mm

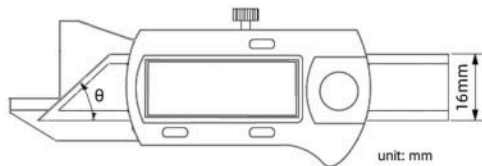
Digital Chamfering Calipers

325 Series

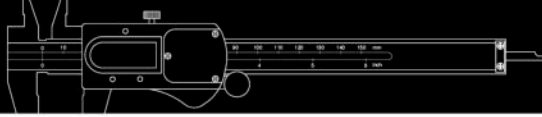


FEATURES

- Resolution: .0005"/0.01mm
- Button function: On/Off, mm/inch, Zero
- Auto-Off



Inch			Metric		θ Chamfer
Code No.	Range	Accuracy	Range	Accuracy	
325-60-0	0-.3"	±.0015"	0-8mm	±0.03mm	30°
325-61-0	0-.3"	±.0015"	0-8mm	±0.03mm	45°
325-62-0	0-.3"	±.0015"	0-8mm	±0.03mm	60°

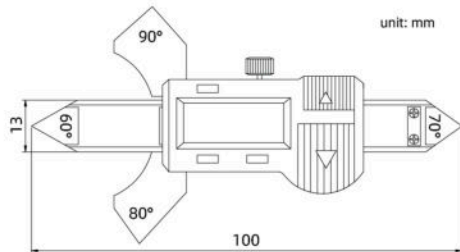


Digital Welding Fillet Gauges

325 Series



325-05-6



FEATURES

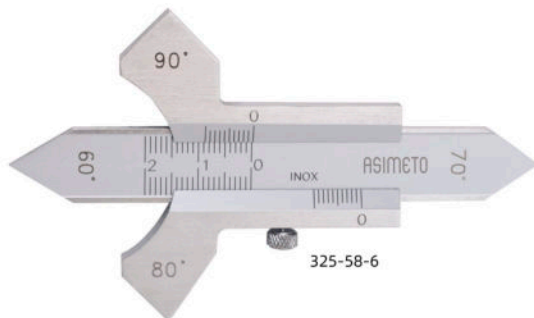
- Resolution: .0005"/0.01mm
- Measures the thickness of a weld along the intersecting vector of two right angle welded objects
- Button function: On/Off, mm/inch, Zero
- Auto-Off



	Inch		Metric	
Code No.	Range	Accuracy	Range	Accuracy
325-05-6	0-.5"	±.0015"	0-12.5mm	±0.03mm
325-08-6	0-.8"	±.0015"	0-20mm	±0.03mm

Welding Fillet Gauges

325 Series

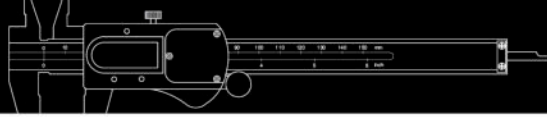


325-58-6

FEATURES

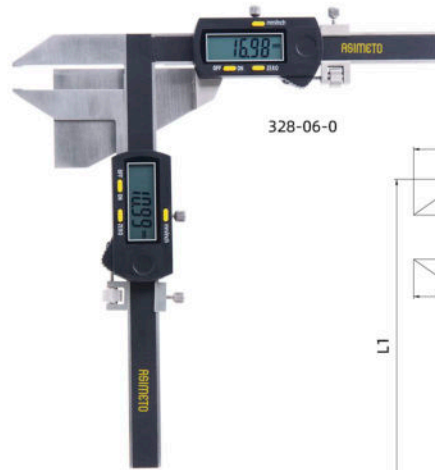
- Graduation: 0.1mm
- Measures the thickness of a weld along the intersecting vector of two right angle welded objects

Metric		
Code No.	Range	Accuracy
325-58-6	0-20mm	±0.3mm

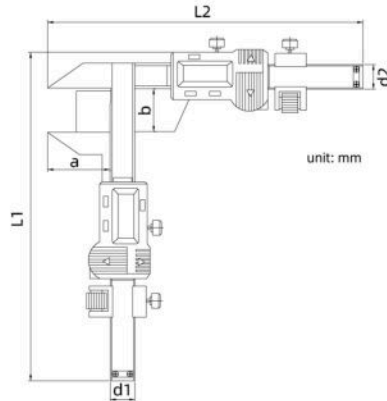


Digital Gear Tooth Calipers

328/330 Series



328-06-0



FEATURES

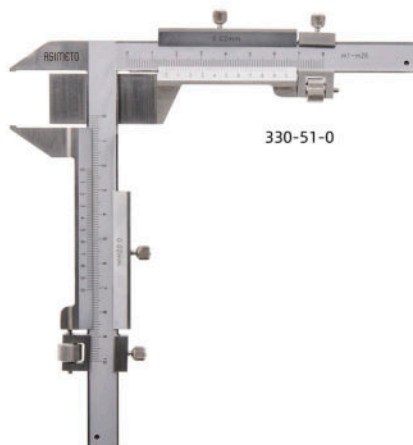
- Resolution: .0005"/0.01mm
- Measures the chordal gear tooth thickness at the chordal addendum (pitch circle)
- Button function: On/Off, mm/inch, Zero
- Auto-Off

60

	Inch	Metric		Dimensions					
Code No.	Range	Range	Accuracy	L1	L2	a	b	d1	d2
328-06-0	M.04-1"	M1-25	±0.03mm	156mm	156.5mm	30.5mm	21mm	13mm	13mm
328-06-2	M.2-2"	M5-50	±0.03mm	210mm	185.5mm	50.5mm	50.5mm	13mm	13mm

Gear Tooth Calipers

328/330 Series

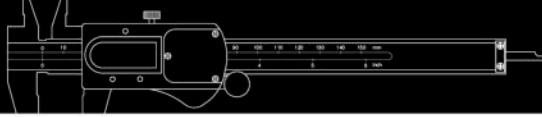


330-51-0

FEATURES

- Graduation: .001"/0.02mm
- Measures the chordal gear tooth thickness at the chordal addendum (pitch circle)

	Inch	Metric		Dimensions					
Code No.	Range	Range	Accuracy	L1	L2	a	b	d1	d2
330-51-0	M.04-1"	M1-25	±0.03mm	156mm	156.5mm	30.5mm	21mm	13mm	13mm
330-52-0	M.2-2"	M5-50	±0.03mm	210mm	185.5mm	50.5mm	50.5mm	13mm	13mm

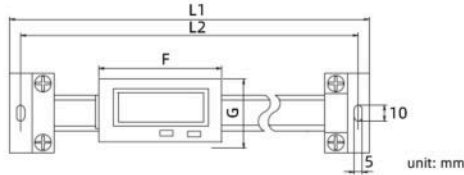


IP67 Digital Scales

326 Series



326-04-0



unit: mm

FEATURES

- Resolution: .0005"/0.01mm
- Button function: On/Off, Zero, Hold, mm/inch
- Auto-Off
- Units are supplied with the necessary mounting brackets required for most popular installations
- Protection level IP67



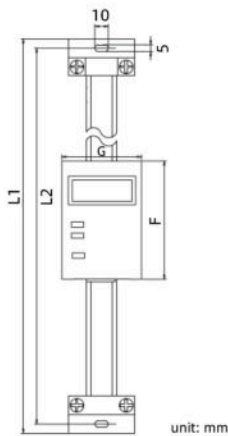
Horizontal	Inch		Metric		Dimensions			
Code No.	Range	Accuracy	Range	Accuracy	F	G	L1	L2
326-04-0	0-4"	±.001"	0-100mm	±0.02mm	75mm	40mm	236mm	227mm
326-06-0	0-6"	±.001"	0-150mm	±0.02mm	75mm	40mm	286mm	277mm
326-08-0	0-8"	±.0015"	0-200mm	±0.03mm	75mm	40mm	326mm	317mm
326-12-0	0-12"	±.0015"	0-300mm	±0.04mm	75mm	40mm	426mm	417mm
326-20-0	0-20"	±.002"	0-500mm	±0.05mm	75mm	40mm	646mm	637mm
326-24-0	0-24"	±.002"	0-600mm	±0.05mm	75mm	40mm	746mm	737mm
326-32-0	0-32"	±.003"	0-800mm	±0.07mm	75mm	40mm	946mm	937mm
326-40-0	0-40"	±.003"	0-1000mm	±0.07mm	75mm	40mm	1146mm	1137mm

IP67 Digital Scales

326 Series



326-04-1



unit: mm

FEATURES

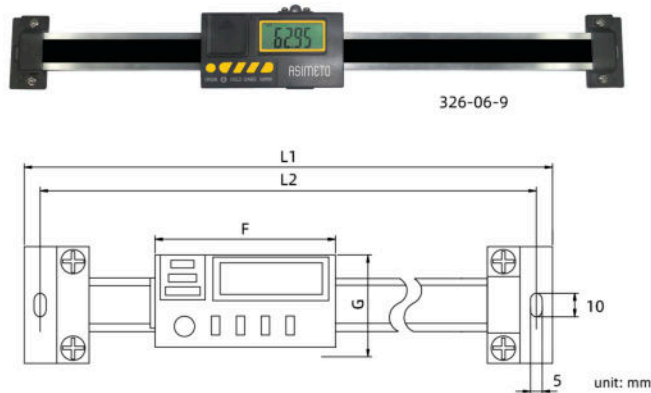
- Resolution: .0005"/0.01mm
- Button function: On/Off, Zero, Hold, mm/inch
- Auto-Off
- Units are supplied with the necessary mounting brackets required for most popular installations
- Protection level IP67



Vertical	Inch		Metric		Dimensions			
Code No.	Range	Accuracy	Range	Accuracy	F	G	L1	L2
326-04-1	0-4"	±.001"	0-100mm	±0.02mm	75mm	40mm	236mm	227mm
326-06-1	0-6"	±.001"	0-150mm	±0.02mm	75mm	40mm	286mm	277mm
326-08-1	0-8"	±.0015"	0-200mm	±0.03mm	75mm	40mm	326mm	317mm
326-12-1	0-12"	±.0015"	0-300mm	±0.04mm	75mm	40mm	426mm	417mm
326-20-1	0-20"	±.002"	0-500mm	±0.05mm	75mm	40mm	646mm	637mm
326-24-1	0-24"	±.002"	0-600mm	±0.05mm	75mm	40mm	746mm	737mm
326-32-1	0-32"	±.003"	0-800mm	±0.07mm	75mm	40mm	946mm	937mm
326-40-1	0-40"	±.003"	0-1000mm	±0.07mm	75mm	40mm	1146mm	1137mm

Digital Scales

326 Series



FEATURES

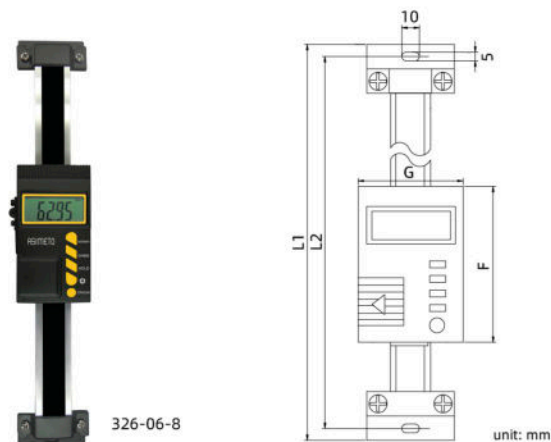
- Resolution: .0005"/0.01mm
- Button function: On/Off, ABS/0, mm/inch, Origin, Hold
- Absolute system delivers reliable measurement
- Auto-Off
- Optional accessory:
Cable data output: 900-05-4/5
Bluetooth data output: 901-01-2/4
Wireless data output:
Transmitting device: 901-00-4/6
Receiver device: 901-00-3



Horizontal	Inch		Metric		Dimensions			
Code No.	Range	Accuracy	Range	Accuracy	F	G	L1	L2
326-04-9	4"	±.001"	100mm	±0.02mm	75mm	40mm	236mm	227mm
326-06-9	6"	±.0015"	150mm	±0.02mm	75mm	40mm	286mm	277mm
326-08-9	8"	±.0015"	200mm	±0.03mm	75mm	40mm	326mm	317mm
326-12-9	12"	±.0015"	300mm	±0.04mm	75mm	40mm	426mm	417mm
326-20-9	20"	±.002"	500mm	±0.05mm	75mm	40mm	646mm	637mm
326-24-9	24"	±.002"	600mm	±0.05mm	75mm	40mm	746mm	737mm
326-32-9	32"	±.003"	800mm	±0.07mm	75mm	40mm	946mm	937mm
326-40-9	40"	±.003"	1000mm	±0.07mm	75mm	40mm	1146mm	1137mm

Digital Scales

326 Series

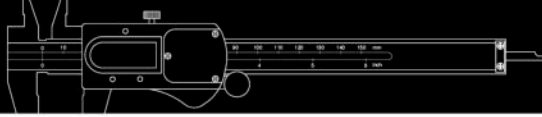


FEATURES

- Resolution: .0005"/0.01mm
- Button function: On/Off, ABS/0, mm/inch, Origin, Hold
- Absolute system delivers reliable measurement
- Auto-Off
- Optional accessory:
Cable data output: 900-05-4/5
Bluetooth data output: 901-01-2/4
Wireless data output:
Transmitting device: 901-00-4/6
Receiver device: 901-00-3

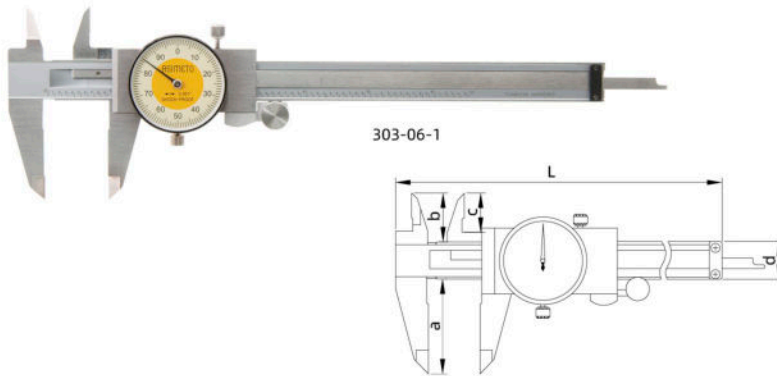


Vertical	Inch		Metric		Dimensions			
Code No.	Range	Accuracy	Range	Accuracy	F	G	L1	L2
326-04-8	4"	±.001"	100mm	±0.02mm	75mm	40mm	236mm	227mm
326-06-8	6"	±.0015"	150mm	±0.02mm	75mm	40mm	286mm	277mm
326-08-8	8"	±.0015"	200mm	±0.03mm	75mm	40mm	326mm	317mm
326-12-8	12"	±.0015"	300mm	±0.04mm	75mm	40mm	426mm	417mm
326-20-8	20"	±.002"	500mm	±0.05mm	75mm	40mm	646mm	637mm
326-24-8	24"	±.002"	600mm	±0.05mm	75mm	40mm	746mm	737mm
326-32-8	32"	±.003"	800mm	±0.07mm	75mm	40mm	946mm	937mm
326-40-8	40"	±.003"	1000mm	±0.07mm	75mm	40mm	1146mm	1137mm



Dial Calipers

303 Series



FEATURES

- Graduation:
Inch: .001"
Metric: 0.01mm or 0.02mm
- Stainless steel construction with all measuring surfaces surface-hardened
- Preloaded dual pinions eliminate backlash and provide better repeatability

Standard Models

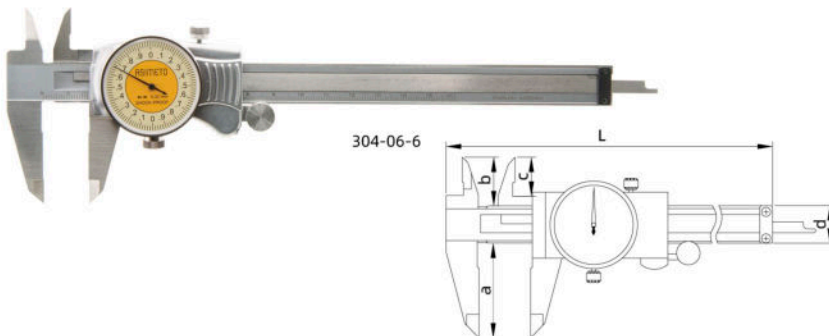
Graduation: .001" Inch		Dimensions					
Code No.	Range	Accuracy	L	a	b	c	d
303-06-1	0-6"	±.001"	9.21"	1.57"	0.83"	0.63"	0.63"
303-08-1	0-8"	±.0015"	11.42"	1.97"	0.93"	0.63"	0.63"
303-12-1	0-12"	±.0015"	15.47"	2.52"	0.96"	0.79"	0.67"

Standard Models

Graduation: 0.01mm		Graduation: 0.02mm	Metric	Dimensions				
Code No.	Code No.	Range	Accuracy	L	a	b	c	d
P303-06-0	303-06-2	0-150mm	±0.02mm	234mm	40mm	21mm	16mm	16mm
P303-08-0	303-08-2	0-200mm	±0.03mm	290mm	50mm	23.5mm	16mm	16mm
P303-12-0	303-12-2	0-300mm	±0.04mm	393mm	64mm	24.5mm	20mm	17mm

Aluminum Dial Calipers

304 Series



FEATURES

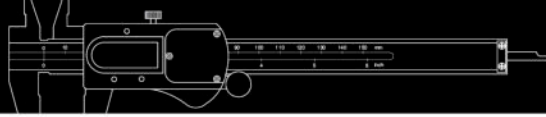
- Graduation:
Inch: .001"
Metric: 0.02mm
- Sturdy Aluminum ergonomic diecast housing can be used without damage in the harshest of manufacturing environments, including situations with hot steel chips
- The dual pinion mechanism offers extra smooth operation

Aluminum Dial Housing Models

Graduation: .001" Inch		Dimensions					
Code No.	Range	Accuracy	L	a	b	c	d
304-06-5	0-6"	±.001"	9.21"	1.57"	0.83"	0.63"	0.63"
304-08-5	0-8"	±.0015"	11.42"	1.97"	0.93"	0.63"	0.63"
304-12-5	0-12"	±.0015"	15.47"	2.52"	0.96"	0.79"	0.67"

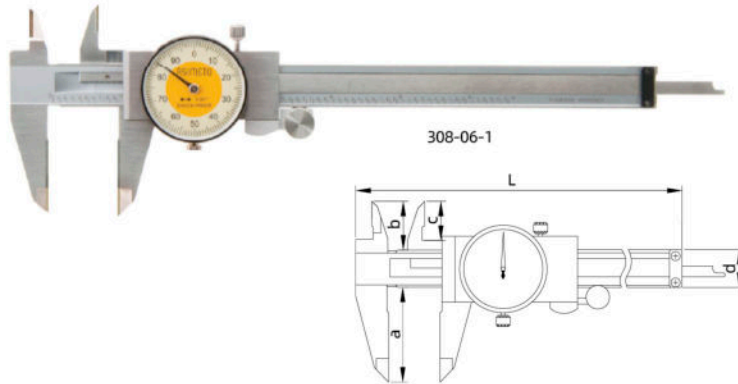
Aluminum Dial Housing Models

Graduation: 0.02mm		Metric	Dimensions				
Code No.	Range	Accuracy	L	a	b	c	d
304-06-6	0-150mm	±0.02mm	234mm	40mm	21mm	16mm	16mm
304-08-6	0-200mm	±0.03mm	290mm	50mm	23.5mm	16mm	16mm
304-12-6	0-300mm	±0.04mm	393mm	64mm	24.5mm	20mm	17mm



Dial Calipers With Carbide Tipped Measuring Faces

308 Series



FEATURES

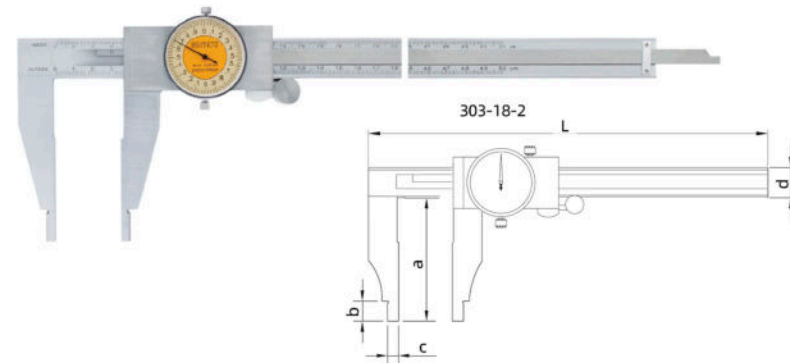
- Graduation:
Inch: .001"
Metric: 0.02mm
- Carbide tipped jaws for inside and outside measurement
- Preloaded dual pinions eliminate backlash and provide better repeatability
- Thumb wheel included

Graduation: .001"		Inch	Dimensions				
Code No.	Range	Accuracy	L	a	b	c	d
308-06-1	0-6"	±.001"	9.21"	1.57"	0.83"	0.63"	0.63"
308-08-1	0-8"	±.0015"	11.42"	1.97"	0.93"	0.63"	0.63"
308-12-1	0-12"	±.0015"	15.47"	2.52"	0.96"	0.79"	0.67"

Graduation: 0.02mm		Metric	Dimensions				
Code No.	Range	Accuracy	L	a	b	c	d
308-06-2	0-150mm	±0.02mm	234mm	40mm	21mm	16mm	16mm
308-08-2	0-200mm	±0.03mm	290mm	50mm	23.5mm	16mm	16mm
308-12-2	0-300mm	±0.04mm	393mm	64mm	24.5mm	20mm	17mm

Heavy Duty Dial Calipers

303 Series

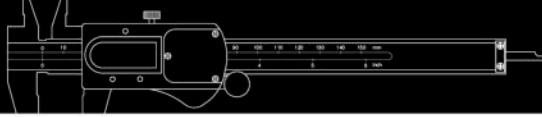


FEATURES

- Graduation:
Inch: .001"
Metric: 0.02mm
- Designed with fine adjustment to allow precise movement of the slider
- Internal measurement jaws are rounded to provide accurate measurement of internal diameters

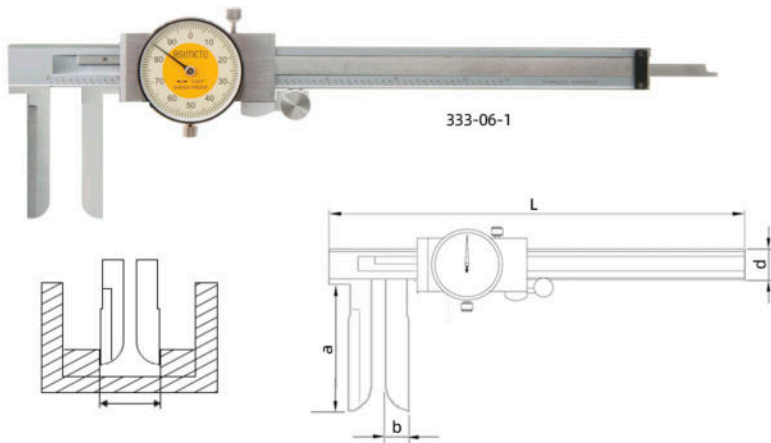
Graduation: .001"		Inch	Dimensions				
Code No.	Range	Accuracy	L	a	b	c	d
303-18-1	0-18"	±.002"	22.83"	3.94"	0.787"	0.197"	0.866"
303-24-1	0-24"	±.002"	28.74"	3.94"	0.787"	0.197"	0.866"
303-40-1	0-40"	±.0025"	47.24"	5.51"	0.866"	0.394"	1.102"

Graduation: 0.02mm		Metric	Dimensions				
Code No.	Range	Accuracy	L	a	b	c	d
303-18-2	0-450mm	±0.05mm	580mm	100mm	20mm	5mm	22mm
303-24-2	0-600mm	±0.05mm	730mm	100mm	20mm	5mm	22mm
303-40-2	0-1000mm	±0.07mm	1200mm	140mm	22mm	10mm	28mm



Dial Calipers With Long Internal Measuring Jaws

333 Series

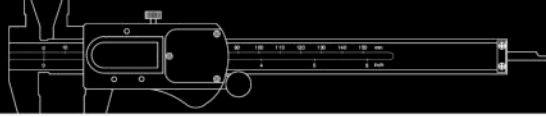


FEATURES

- Graduation:
Inch: .001"
Metric: 0.02mm
- Measure diameter of deep step holes
- Stainless steel construction with all measuring surfaces surfacehardened

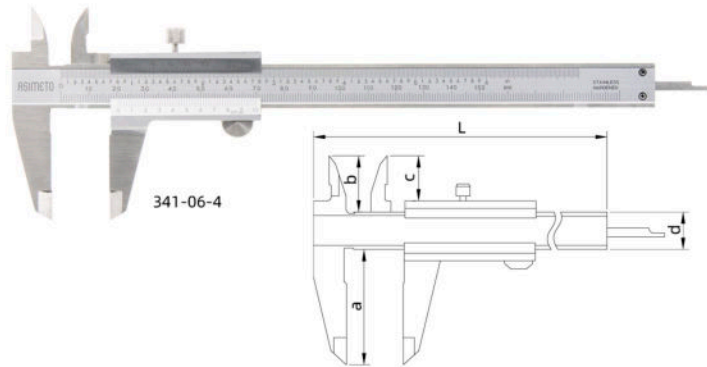
Graduation: .001"		Inch	Dimensions			
Code No.	Range	Accuracy	L	a	b	d
333-06-1	.47-6"	±.0015"	9.72"	2.76"	0.47"	0.63"

Graduation: 0.02mm		Metric	Dimensions			
Code No.	Range	Accuracy	L	a	b	d
333-06-0	12-150mm	±0.04mm	247mm	70mm	12mm	16mm



Vernier Calipers

341 Series



FEATURES

- Graduation:
Inch: .001" or 1/128"
Metric: 0.02mm or 0.05mm
- Measuring surfaces allow for the measurement of external diameters, internal diameters, depths and steps
- Stainless steel with surface hardened measuring faces

Mono Block Models

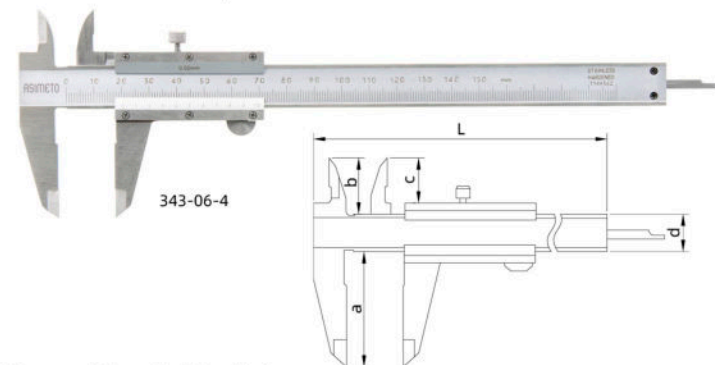
Inch	Range		Graduation		Dimensions					
Code No.	Lower	Upper	Lower	Upper	Accuracy	L	a	b	c	d
341-06-1	0-6"	0-150mm	.001"	±.002mm	±.001"	9.252"	1.575"	.827"	.650"	.630"
341-08-1	0-8"	0-200mm	.001"	±.002mm	±.001"	11.693"	1.969"	.925"	.748"	.630"
341-12-1	0-12"	0-300mm	.001"	±.002mm	±.001"	16.142"	2.362"	1.063"	.866"	.708"

Inch&Metric	Range		Graduation		Dimensions					
Code No.	Lower	Upper	Lower	Upper	Accuracy	L	a	b	c	d
341-06-0	0-150mm	0-6"	0.05mm	1/128"	±0.05mm	235mm	40mm	21mm	16.5mm	16mm
341-08-0	0-200mm	0-8"	0.05mm	1/128"	±0.05mm	297mm	50mm	23.5mm	19mm	16mm
341-12-0	0-300mm	0-12"	0.05mm	1/128"	±0.05mm	410mm	64mm	27mm	22mm	18mm
341-04-4	0-100mm	0-4"	0.02mm	.001"	±0.02mm	175mm	25mm	19mm	13.5mm	16mm
341-06-4	0-150mm	0-6"	0.02mm	.001"	±0.02mm	235mm	40mm	21mm	16.5mm	16mm
341-08-4	0-200mm	0-8"	0.02mm	.001"	±0.02mm	297mm	50mm	23.5mm	19mm	16mm
341-12-4	0-300mm	0-12"	0.02mm	.001"	±0.02mm	410mm	60mm	27mm	22mm	18mm

Inch&Metric	Range		Graduation		Dimensions						
Code No.	Lower	Upper	Lower	Upper	Accuracy	Note	L	a	b	c	d
P341-06-4	0-150mm	0-6"	0.02mm	.001"	±0.02mm	Upper Lock	235mm	40mm	21mm	16.5mm	16mm
P341-08-4	0-200mm	0-8"	0.02mm	.001"	±0.02mm	Upper Lock	297mm	50mm	23.5mm	19mm	16mm
P341-12-4	0-300mm	0-12"	0.02mm	.001"	±0.02mm	Upper Lock	410mm	60mm	27mm	22mm	18mm

Vernier Calipers

343 Series

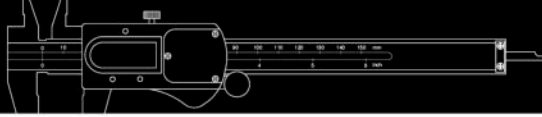


FEATURES

- Graduation: 0.02mm
- Measuring surfaces allow for the measurement of external diameters, internal diameters, depths and steps
- Stainless steel with surface hardened measuring faces

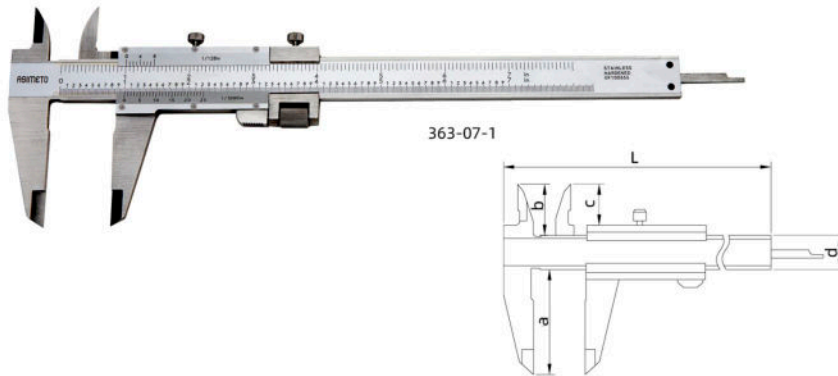
Open Block Models

Range		Graduation		Dimensions						
Code No.	Lower	Lower	Accuracy	Note	L	a	b	c	d	
343-04-4	0-100mm	0.02mm	±0.02mm	Upper Lock	175mm	25mm	19mm	13.5mm	16mm	
343-06-4	0-150mm	0.02mm	±0.02mm	Upper Lock	235mm	40mm	21mm	16.5mm	16mm	
343-08-4	0-200mm	0.02mm	±0.02mm	Upper Lock	297mm	50mm	23.5mm	19mm	16mm	
343-12-4	0-300mm	0.02mm	±0.02mm	Upper Lock	410mm	64mm	27mm	22mm	18mm	



Vernier Calipers - Fine Adjustment

363 Series



FEATURES

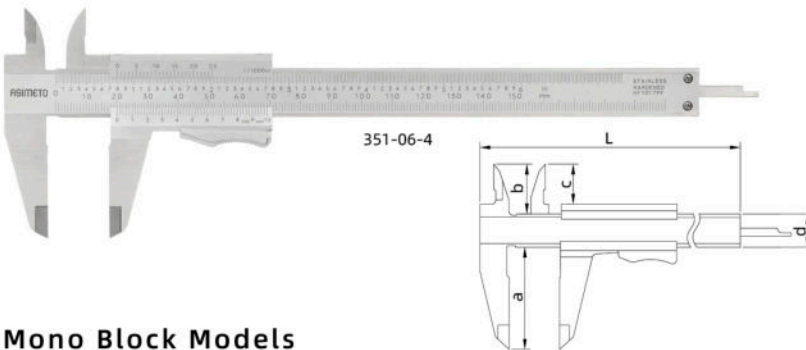
- Graduation:
Inch: .001" or 1/128"
Metric: 0.02mm or 0.05mm
- Carbide tipped jaws for inside and outside measurement

Inch							Dimensions				
Code No.	Lower Range	Upper Range	Lower Graduation	Upper Graduation	Accuracy	Note	L	a	b	c	d
363-05-1	0-5"	0-130mm	.001"	±0.02mm	±.001"	upper lock	8.976"	1.575"	.827"	.650"	.630"
363-07-1	0-7"	0-180mm	.001"	±0.02mm	±.001"	upper lock	11.417"	1.969"	.925"	.748"	.670"
363-11-1	0-11"	0-280mm	.001"	±0.02mm	±.001"	upper lock	16.142"	2.362"	1.083"	.866"	.787"

Metric							Dimensions				
Code No.	Lower Range	Upper Range	Lower Graduation	Upper Graduation	Accuracy	Note	L	a	b	c	d
363-05-6	0-130mm	0-5"	0.02mm	0.001"	±0.02mm	upper lock	228mm	40mm	21mm	16.5mm	16mm
363-07-6	0-180mm	0-7"	0.02mm	0.001"	±0.02mm	upper lock	290mm	50mm	23.5mm	19mm	17mm
363-11-6	0-280mm	0-11"	0.02mm	0.001"	±0.02mm	upper lock	410mm	64mm	27.5mm	22mm	20mm

Vernier Calipers - Thumb Clamp

351 Series



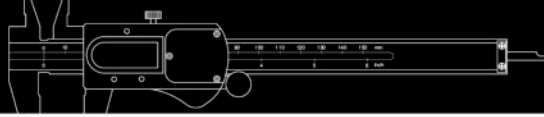
FEATURES

- Graduation:
Inch: .001" or 1/128"
Metric: 0.02mm or 0.05mm
- Carbide tipped jaws for inside and outside measurement

Mono Block Models

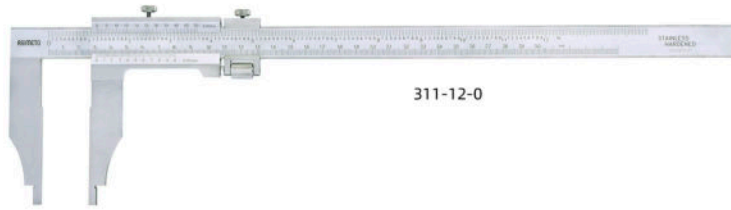
Dimensions										
Code No.	Lower Range	Upper Range	Lower Graduation	Upper Graduation	Accuracy	L	a	b	c	d
351-06-1	0-6"	0-150mm	.001"	±0.02mm	±.001"	8.976"	1.575"	.827"	.650"	.630"
351-08-1	0-8"	0-200mm	.001"	±0.02mm	±.001"	11.417"	1.969"	.925"	.748"	.670"

Dimensions										
Code No.	Lower Range	Upper Range	Lower Graduation	Upper Graduation	Accuracy	L	a	b	c	d
351-06-0	0-150mm	0-6"	0.05mm	1/128"	±0.05mm	228mm	40mm	21mm	16.5mm	16mm
351-08-0	0-200mm	0-8"	0.05mm	1/128"	±0.05mm	290mm	50mm	23.5mm	19mm	17mm
351-06-4	0-150mm	0-6"	0.02mm	0.001"	±0.02mm	228mm	40mm	21mm	16.5mm	16mm
351-08-4	0-200mm	0-8"	0.02mm	0.001"	±0.02mm	290mm	50mm	23.5mm	19mm	17mm

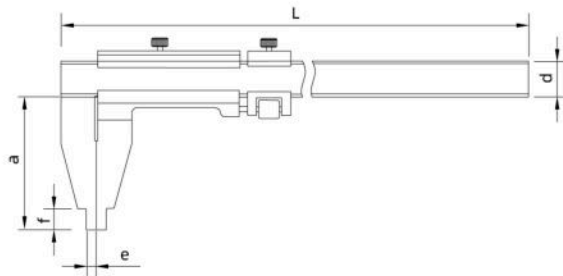


Heavy Duty Vernier Calipers (Mono Block)

311 Series



311-12-0



FEATURES

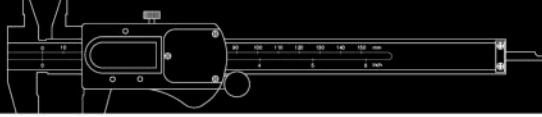
- Graduation:
Inch: .001" or 1/128"
Metric: 0.02mm or 0.05mm
- Designed with fine adjustment to allow precise movement of the slider
- Internal measurement jaws are rounded to provide accurate measurement of internal diameters
- Models available with an assortment of metric/inch scale configurations
- Stainless steel

Remark: Special Jaw Length are upon requested

Mono Block Models

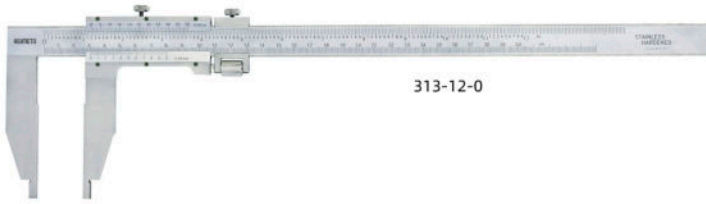
Inch/Metric		Dimensions								
Code No.	Range		Graduation		Accuracy	L	a	d	e	f
311-12-1	0-12"	0-300mm	.001"	0.02mm	±.0015"	17.717"	2.953"	.787"	.2"	.472"
311-18-1	0-18"	0-450mm	.001"	0.02mm	±.0020"	26.970"	3.937"	.945"	.4"	.591"
311-20-1	0-20"	0-500mm	.001"	0.02mm	±.0020"	28.937"	3.937"	.945"	.4"	.591"
311-24-1	0-24"	0-600mm	.001"	0.02mm	±.0020"	32.874"	3.937"	1.220"	.4"	.945"
311-32-1	0-32"	0-800mm	.001"	0.02mm	±.0020"	40.748"	5.906"	1.220"	.4"	.945"
311-40-1	0-40"	0-1000mm	.001"	0.02mm	±.0030"	48.622"	5.906"	1.220"	.4"	.945"
311-60-1	0-60"	0-1500mm	.001"	0.02mm	±.0040"	71.654"	7.874"	1.654"	.4"	.945"
311-80-1	0-80"	0-2000mm	.001"	0.02mm	±.0050"	89.370"	7.874"	1.654"	.4"	.945"

Metric/Inch		Dimensions								
Code No.	Range		Graduation		Accuracy	L	a	d	e	f
311-12-0	0-300mm	0-12"	0.02mm	.001"	±0.04mm	450mm	75mm	20mm	5mm	12mm
311-18-0	0-450mm	0-18"	0.02mm	.001"	±0.05mm	685mm	100mm	24mm	10mm	15mm
311-20-0	0-500mm	0-20"	0.02mm	.001"	±0.05mm	735mm	100mm	24mm	10mm	15mm
311-24-0	0-600mm	0-24"	0.02mm	.001"	±0.05mm	835mm	100mm	31mm	10mm	24mm
311-32-0	0-800mm	0-32"	0.02mm	.001"	±0.07mm	1035mm	150mm	31mm	5mm	24mm
311-40-0	0-1000mm	0-40"	0.02mm	.001"	±0.07mm	1235mm	150mm	31mm	10mm	24mm
311-60-0	0-1500mm	0-60"	0.02mm	.001"	±0.10mm	1820mm	200mm	42mm	10mm	24mm
311-80-0	0-2000mm	0-80"	0.02mm	.001"	±0.12mm	2270mm	200mm	42mm	10mm	24mm
311-12-2	0-300mm	0-12"	0.05mm	1/128"	±0.05mm	450mm	75mm	20mm	5mm	12mm
311-18-2	0-450mm	0-18"	0.05mm	1/128"	±0.08mm	685mm	100mm	24mm	10mm	15mm
311-20-2	0-500mm	0-20"	0.05mm	1/128"	±0.08mm	735mm	100mm	24mm	10mm	15mm
311-24-2	0-600mm	0-24"	0.05mm	1/128"	±0.10mm	835mm	100mm	31mm	10mm	24mm
311-32-2	0-800mm	0-32"	0.05mm	1/128"	±0.10mm	1035mm	150mm	31mm	5mm	24mm
311-40-2	0-1000mm	0-40"	0.05mm	1/128"	±0.10mm	1235mm	150mm	31mm	10mm	24mm
311-60-2	0-1500mm	0-60"	0.05mm	1/128"	±0.15mm	1820mm	200mm	42mm	10mm	24mm
311-80-2	0-2000mm	0-80"	0.05mm	1/128"	±0.15mm	2270mm	200mm	42mm	10mm	24mm

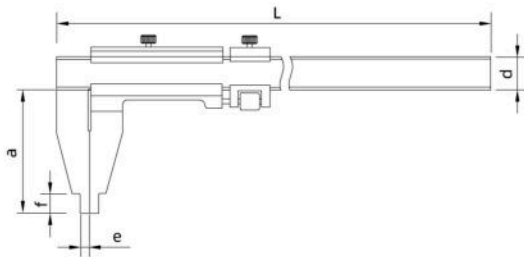


Heavy Duty Vernier Calipers (Open Block)

313 Series



313-12-0



FEATURES

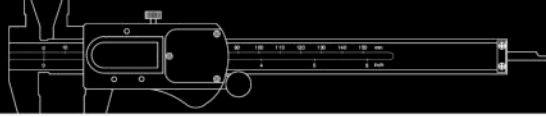
- Graduation:
Inch: .001"
Metric: 0.02mm
- Stainless steel
- Models available with an assortment of metric/inch scale configurations
- Designed with fine adjustment to allow precise movement of the slider
- Internal measurement jaws are rounded to provide accurate measurement of internal diameters

Remark: Special Jaw Length are upon requested

Open Block Models

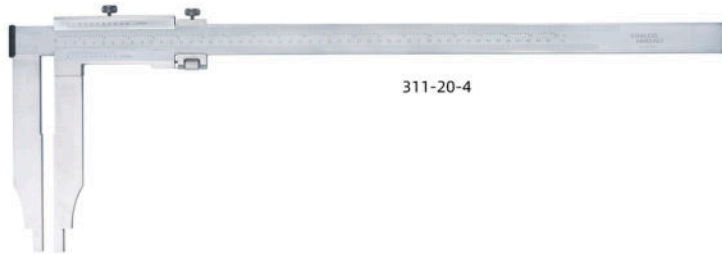
Inch/Metric		Dimensions								
Code No.	Range		Graduation		Accuracy	L	a	d	e	f
313-12-1	0-12"	0-300mm	.001"	0.02mm	±.0015"	17.717"	2.362"	.787"	.2"	.472"
313-18-1	0-18"	0-450mm	.001"	0.02mm	±.0020"	26.969"	3.937"	.945"	.4"	.591"
313-20-1	0-20"	0-500mm	.001"	0.02mm	±.0020"	28.937"	3.937"	.945"	.4"	.591"
313-24-1	0-24"	0-600mm	.001"	0.02mm	±.0020"	32.874"	3.937"	1.220"	.4"	.945"
313-32-1	0-32"	0-800mm	.001"	0.02mm	±.0020"	40.748"	5.906"	1.220"	.4"	.945"
313-40-1	0-40"	0-1000mm	.001"	0.02mm	±.0030"	48.622"	5.906"	1.220"	.4"	.945"
313-60-1	0-60"	0-1500mm	.001"	0.02mm	±.0040"	71.654"	7.874"	1.654"	.4"	.945"
313-80-1	0-80"	0-2000mm	.001"	0.02mm	±.0050"	89.370"	7.874"	1.654"	.4"	.945"

Metric/Inch		Dimensions								
Code No.	Range		Graduation		Accuracy	L	a	d	e	f
313-12-0	0-300mm	0-12"	0.02mm	.001"	±0.04mm	450mm	60mm	20mm	5mm	12mm
313-18-0	0-450mm	0-18"	0.02mm	.001"	±0.05mm	685mm	100mm	24mm	10mm	15mm
313-20-0	0-500mm	0-20"	0.02mm	.001"	±0.05mm	735mm	100mm	24mm	10mm	15mm
313-24-0	0-600mm	0-24"	0.02mm	.001"	±0.05mm	835mm	100mm	31mm	10mm	24mm
313-32-0	0-800mm	0-32"	0.02mm	.001"	±0.07mm	1035mm	150mm	31mm	10mm	24mm
313-40-0	0-1000mm	0-40"	0.02mm	.001"	±0.07mm	1235mm	150mm	31mm	10mm	24mm
313-60-0	0-1500mm	0-60"	0.02mm	.001"	±0.10mm	1820mm	200mm	42mm	10mm	24mm
313-80-0	0-2000mm	0-80"	0.02mm	.001"	±0.12mm	2270mm	200mm	42mm	10mm	24mm

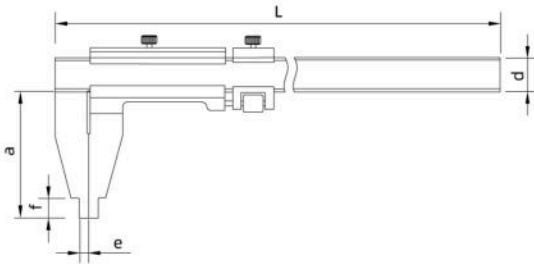


Long Jaw Vernier Calipers (Mono Block)

311 Series



311-20-4



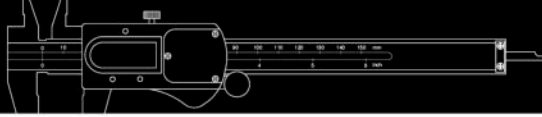
FEATURES

- Graduation:
Inch: .001" or 1/128"
Metric: 0.02mm or 0.05mm
- Stainless steel
- Models available with an assortment of metric/inch scale configurations
- Designed with fine adjustment to allow precise movement of the slider
- Internal measurement jaws are rounded to provide accurate measurement of internal diameters

Mono Block Models

Inch/Metric						Dimensions				
Code No.	Range		Graduation		Accuracy	L	a	d	e	f
311-12-3	0-12"	0-300mm	.001"	0.02mm	±.0015"	17.717"	3.543"	.787"	.2"	.472"
311-20-3	0-20"	0-500mm	.001"	0.02mm	±.0020"	28.937"	7.874"	.945"	.4"	.591"
311-30-3	0-30"	0-750mm	.001"	0.02mm	±.0030"	38.780"	7.874"	.945"	.4"	.591"
311-40-3	0-40"	0-1000mm	.001"	0.02mm	±.0030"	48.622"	7.874"	.945"	.4"	.591"

Metric/Inch						Dimensions				
Code No.	Range		Graduation		Accuracy	L	a	d	e	f
311-12-4	0-300mm	0-12"	0.02mm	.001"	±0.04mm	450mm	90mm	20mm	5mm	12mm
311-20-4	0-500mm	0-20"	0.02mm	.001"	±0.05mm	735mm	200mm	31mm	10mm	24mm
311-30-4	0-750mm	0-30"	0.02mm	.001"	±0.07mm	985mm	200mm	31mm	10mm	24mm
311-40-4	0-1000mm	0-40"	0.02mm	.001"	±0.07mm	1235mm	200mm	31mm	10mm	24mm
311-12-6	0-300mm	0-12"	0.05mm	1/128"	±0.05mm	450mm	90mm	20mm	5mm	12mm
311-20-6	0-500mm	0-20"	0.05mm	1/128"	±0.08mm	735mm	200mm	31mm	10mm	24mm
311-30-6	0-750mm	0-30"	0.05mm	1/128"	±0.10mm	985mm	200mm	31mm	10mm	24mm
311-40-6	0-1000mm	0-40"	0.05mm	1/128"	±0.10mm	1235mm	200mm	31mm	10mm	24mm

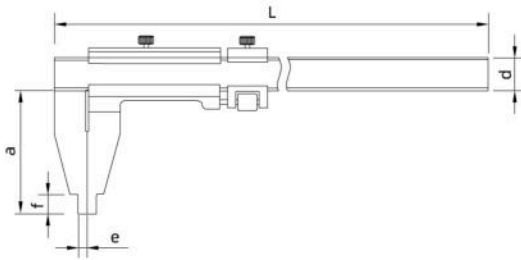


Long Jaw Vernier Calipers (Open Block)

313 Series



313-20-4



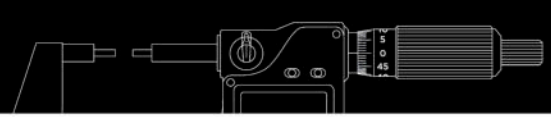
FEATURES

- Graduation:
Inch: .001"
Metric: 0.02mm
- Stainless steel
- Models available with an assortment of metric/inch scale configurations
- Designed with fine adjustment to allow precise movement of the slider
- Internal measurement jaws are rounded to provide accurate measurement of internal diameters

Open Block Models

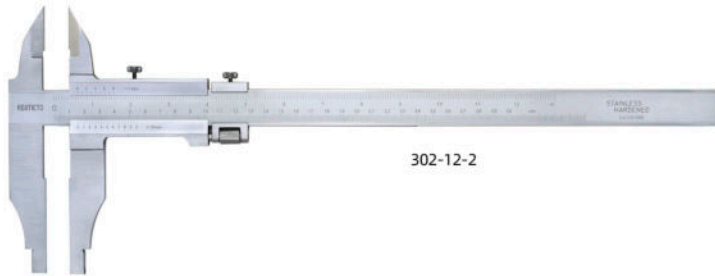
Inch/Metric		Dimensions								
Code No.	Range		Graduation		Accuracy	L	a	d	e	f
313-12-3	0-12"	0-300mm	.001"	0.02mm	±.0015"	17.717"	3.543"	.787"	.2"	.472"
313-20-3	0-20"	0-500mm	.001"	0.02mm	±.0020"	28.937"	7.874"	.945"	.4"	.591"
313-30-3	0-30"	0-750mm	.001"	0.02mm	±.0030"	38.780"	7.874"	.945"	.4"	.591"
313-40-3	0-40"	0-1000mm	.001"	0.02mm	±.0030"	48.622"	7.874"	.945"	.4"	.591"

Metric/Inch		Dimensions								
Code No.	Range		Graduation		Accuracy	L	a	d	e	f
313-12-4	0-300mm	0-12"	0.02mm	.001"	±0.04mm	450mm	90mm	20mm	5mm	12mm
313-20-4	0-500mm	0-20"	0.02mm	.001"	±0.05mm	735mm	200mm	30mm	10mm	23mm
313-30-4	0-750mm	0-30"	0.02mm	.001"	±0.07mm	985mm	200mm	32mm	10mm	25mm
313-40-4	0-1000mm	0-40"	0.02mm	.001"	±0.07mm	1235mm	200mm	32mm	10mm	25mm



Heavy Duty Vernier Calipers With Upper Knife-Edge (Mono Block)

302 Series

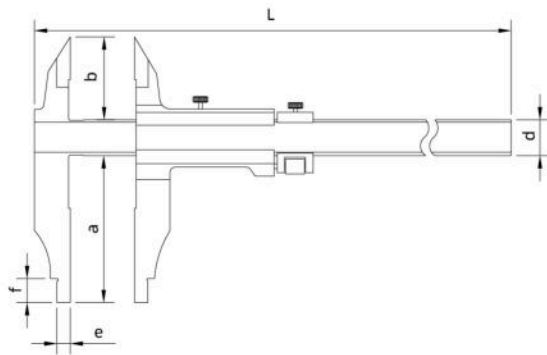


302-12-2

FEATURES

- Graduation:
Inch: .001" or 1/128"
Metric: 0.02mm or 0.05mm
- Stainless steel
- Models available with an assortment of metric/ inch scale configurations
- Designed with fine adjustment to allow precise movement of the slider

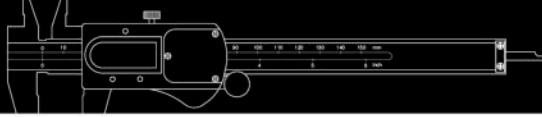
Remark: Special Jaw Length are upon requested



Mono Block Models

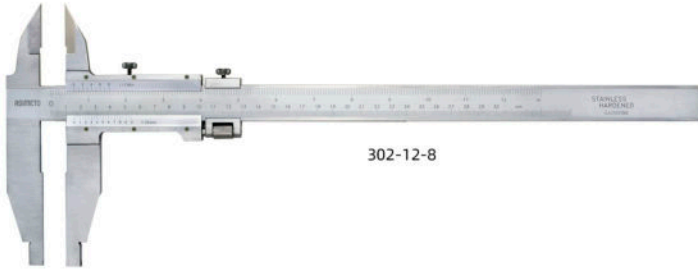
Inch/Metric					Dimensions						
Code No.	Range		Graduation		Accuracy	L	a	b	d	e	f
302-12-1	0-12"	0-300mm	.001"	0.02mm	±.0015"	18.504"	3.937"	2.205"	.945"	.4"	.591"
302-20-1	0-20"	0-500mm	.001"	0.02mm	±.0020"	28.937"	5.906"	2.638"	1.220"	.4"	.945"
302-32-1	0-32"	0-750mm	.001"	0.02mm	±.0030"	40.748"	5.906"	2.638"	1.220"	.4"	.945"
302-40-1	0-40"	0-1000mm	.001"	0.02mm	±.0030"	48.622"	5.906"	2.638"	1.220"	.4"	.945"

Metric/Inch			Dimensions								
Code No.	Range		Graduation		Accuracy	L	a	b	d	e	f
302-12-0	0-300mm	0-12"	0.02mm	.001"	±0.04mm	470mm	100mm	56mm	24mm	10mm	15mm
302-20-0	0-500mm	0-20"	0.02mm	.001"	±0.05mm	735mm	150mm	67mm	31mm	10mm	24mm
302-32-0	0-800mm	0-30"	0.02mm	.001"	±0.07mm	1035mm	150mm	67mm	31mm	10mm	24mm
302-40-0	0-1000mm	0-40"	0.02mm	.001"	±0.07mm	1235mm	150mm	67mm	31mm	10mm	24mm
302-12-2	0-300mm	0-12"	0.05mm	1/128"	±0.05mm	470mm	100mm	56mm	24mm	10mm	15mm
302-20-2	0-500mm	0-20"	0.05mm	1/128"	±0.08mm	735mm	150mm	67mm	31mm	10mm	24mm
302-32-2	0-800mm	0-30"	0.05mm	1/128"	±0.10mm	1035mm	150mm	67mm	31mm	10mm	24mm
302-40-2	0-1000mm	0-40"	0.05mm	1/128"	±0.10mm	1235mm	150mm	67mm	31mm	10mm	24mm

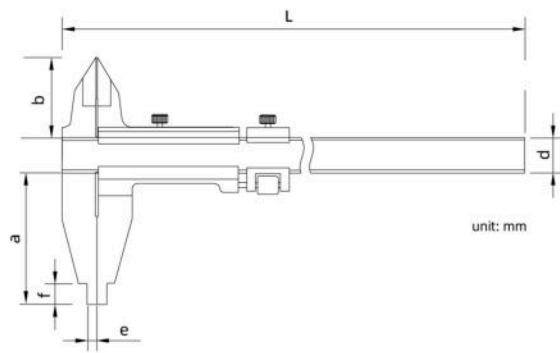


Heavy Duty Vernier Calipers With Upper Knife-Edge (Open Block)

302 Series



302-12-8



unit: mm

FEATURES

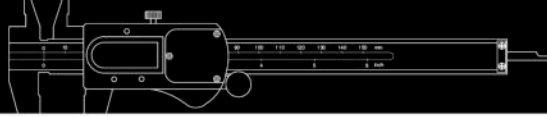
- Graduation:
Inch: .001"
Metric: 0.02mm
- Stainless steel
- Models available with an assortment of metric/inch scale configurations
- Designed with fine adjustment to allow precise movement of the slider
- With upper knife-edge for external diameter measurement

Remark: Special Jaw Length are upon requested

Open Block Models

Inch/Metric				Dimensions							
Code No.	Range		Graduation		Accuracy	L	a	a	d	e	f
302-12-9	0-12"	.001"	0-300mm	0.02mm	±.0015"	18.504"	3.937"	2.205"	.945"	.4"	.591"
302-20-9	0-20"	.001"	0-500mm	0.02mm	±.0020"	28.937"	5.906"	2.638"	1.220"	.4"	.945"
302-32-9	0-32"	.001"	0-800mm	0.02mm	±.0030"	40.748"	5.906"	2.638"	1.220"	.4"	.945"
302-40-9	0-40"	.001"	0-1000mm	0.02mm	±.0030"	48.622"	5.906"	2.638"	1.220"	.4"	.945"

Metric/Inch				Dimensions							
Code No.	Range		Graduation		Accuracy	L	a	a	d	e	f
302-12-8	0-300mm	0.02mm	0-12"	.001"	±0.04mm	470mm	90mm	36.5mm	24mm	10mm	15mm
302-20-8	0-500mm	0.02mm	0-20"	.001"	±0.05mm	735mm	150mm	55mm	31mm	10mm	24mm
302-32-8	0-800mm	0.02mm	0-32"	.001"	±0.07mm	1035mm	150mm	64mm	31mm	10mm	24mm
302-40-8	0-1000mm	0.02mm	0-40"	.001"	±0.07mm	1235mm	150mm	64mm	31mm	10mm	24mm



Circle Vernier Calipers



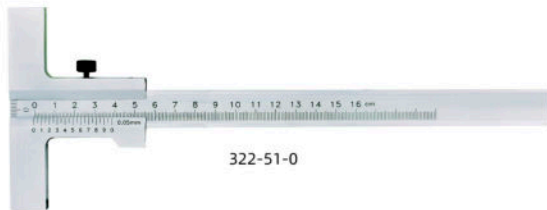
322 Series

FEATURES

- Graduation: 0.1mm
- With one-piece slider
- Made of stainless steel
- Hardened measuring face

Code No.	Range	Accuracy	Jaw Length
322-71-0	0-150mm	±0.2mm	40mm
322-72-0	0-200mm	±0.2mm	40mm
322-73-0	0-250mm	±0.3mm	40mm
322-74-0	0-300mm	±0.3mm	40mm

T Form Marking Calipers



322 Series

FEATURES

- Graduation: 0.05mm
- Made of stainless steel

Code No.	Range	Accuracy	Base Length
322-51-0	0-160mm	±0.1mm	135mm
322-52-0	0-250mm	±0.1mm	135mm
322-53-0	0-300mm	±0.15mm	160mm

Marking Calipers



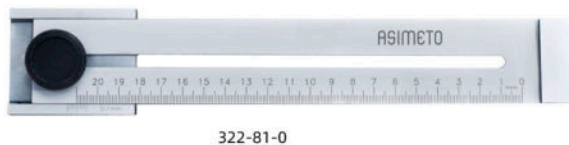
322 Series

FEATURES

- Graduation: 1/128"/0.1mm
- Made of stainless steel

Code No.	Range		Accuracy	
	Upper Range	Lower Range	Upper Accuracy	Lower Accuracy
322-61-0	0-8"	0-200mm	±.02"	±0.2mm
322-62-0	0-16"	0-400mm	±.02"	±0.3mm

Measuring Gauges

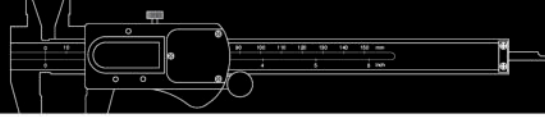


322 Series

FEATURES

- Graduation: 0.1mm
- Made of stainless steel

Code No.	Range	Accuracy
322-81-0	0-200mm	±0.2mm
322-82-0	0-250mm	±0.3mm
322-83-0	0-300mm	±0.3mm

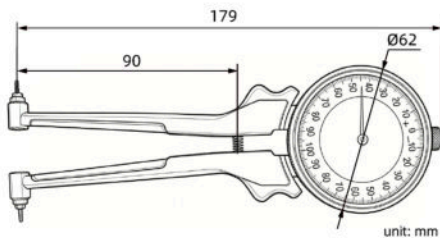


Interchangeable Anvil Dial Caliper Gauges

403 Series



403-50-0



FEATURES

- Graduation:
Inch: .0005"
Metric: 0.01mm
- Can be set with a micrometer or ring gauge
- Bezel rotates for zero setting
- Button for closing arms
- Arms automatically open when button is released
- Unit is spring-loaded and makes point contact at constant pressure

Inch			
Code No.	Range	Resolution	Accuracy
403-48-1	0.8-1.4"	0.0005"	0.0008"
403-49-1	1.2-2.45"	0.0005"	0.0008"
403-50-1	2.15-6"	0.0005"	0.0008"

Metric			
Code No.	Range	Resolution	Accuracy
403-48-0	20-35mm	0.01mm	0.02mm
403-49-0	30-62mm	0.01mm	0.02mm
403-50-0	55-153mm	0.01mm	0.02mm

Internal Dial Caliper Gauges

403 Series



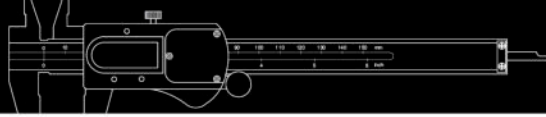
403-31-0

FEATURES

- Graduation:
Inch: .001"
Metric: 0.025mm
- For checking internal bores, recess diameters, etc.
- Highly recommended for quick ID comparisons
- Gauge has a movement of 1" (25 mm)
- Can be set with a micrometer or ring gauge
- Bezel rotates for zero setting
- Button for closing arms
- Arms automatically open when button is released
- Unit is spring-loaded and makes point contact at constant measuring pressure. Arms have .06" diameter measuring tips
- Revolution counter
- Leg length 3-1/4"

Inch		
Code No.	Range	Accuracy
403-31-1	0.375-1.375"	±.002"
403-32-1	0.750-1.750"	±.002"
403-33-1	1.125-2.125"	±.002"
403-34-1	1.500-2.500"	±.002"
403-35-1	1.875-2.875"	±.003"
403-36-1	2.250-3.250"	±.003"
403-37-1	2.875-3.875"	±.003"
403-38-1	3.250-4.250"	±.004"

Metric		
Code No.	Range	Accuracy
403-31-0	10-35mm	±0.05mm
403-32-0	20-45mm	±0.05mm
403-33-0	30-55mm	±0.05mm
403-34-0	40-65mm	±0.05mm
403-35-0	50-75mm	±0.08mm
403-36-0	60-85mm	±0.08mm
403-37-0	75-100mm	±0.08mm
403-38-0	85-110mm	±0.08mm
403-39-0	95-120mm	±0.1mm
403-40-0	100-125mm	±0.1mm

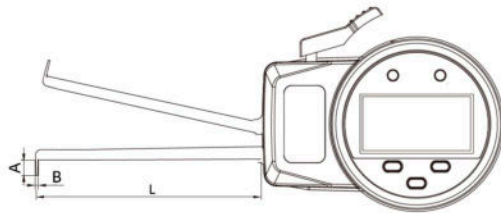


IP65 Internal Digital Caliper Gauges

400 Series



400-31-0

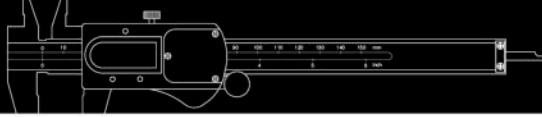


FEATURES

- Designed to measure internal grooves, and other intricate detailed internal characteristics
- This measuring instrument provides comparison readings and must be set to the nominal dimension using either micrometer or setting ring
- Button function: On/Off, mm/inch, Preset, Hold, Tol
- Support bluetooth data transmission (optional)
- Built-in rechargeable lithium battery, magnetic charging port, convenient and fast
- Auto-Off
- Protection level IP65



Inch				Metric			Dimensions			
Code No.	Range	Resolution	Accuracy	Range	Resolution	Accuracy	Data Output Type	A	B	L
400-31-0	.2- .6"	.0001"	±.0006"	5-15mm	0.002mm	±0.015mm	-	2.3mm	0.8mm	35mm
400-32-0	.4-1.2"	.0002"	±.001"	10-30mm	0.005mm	±0.025mm	-	5.2mm	1.2mm	85mm
400-33-0	1.2-2"	.0002"	±.001"	30-50mm	0.005mm	±0.025mm	-	7.2mm	1.2mm	85mm
400-34-0	2-4"	.0005"	±.002"	50-100mm	0.010mm	±0.050mm	-	11.7mm	2.4mm	236mm
400-35-0	4-6"	.0005"	±.002"	100-150mm	0.010mm	±0.050mm	-	11.7mm	2.4mm	236mm
400-36-0	6-8"	.0005"	±.002"	150-200mm	0.010mm	±0.050mm	-	11.7mm	2.4mm	236mm
400-31-2	.2- .6"	.0001"	±.0006"	5-15mm	0.002mm	±0.015mm	Bluetooth	2.3mm	0.8mm	35mm
400-32-2	.4-1.2"	.0002"	±.001"	10-30mm	0.005mm	±0.025mm	Bluetooth	5.2mm	1.2mm	85mm
400-33-2	1.2-2"	.0002"	±.001"	30-50mm	0.005mm	±0.025mm	Bluetooth	7.2mm	1.2mm	85mm
400-34-2	2-4"	.0005"	±.002"	50-100mm	0.010mm	±0.050mm	Bluetooth	11.7mm	2.4mm	236mm
400-35-2	4-6"	.0005"	±.002"	100-150mm	0.010mm	±0.050mm	Bluetooth	11.7mm	2.4mm	236mm
400-36-2	6-8"	.0005"	±.002"	150-200mm	0.010mm	±0.050mm	Bluetooth	11.7mm	2.4mm	236mm

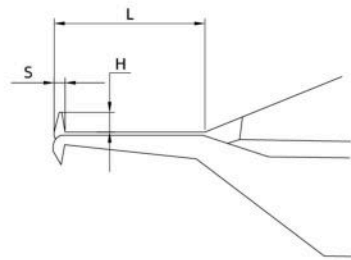


Internal Caliper Gauges

400 Series



400-14-0



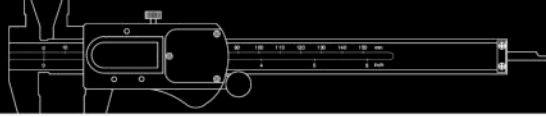
FEATURES

- Resolution: .0002"/0.005mm
- Designed to measure internal grooves, and other intricate detailed internal characteristics
- This measuring instrument provides comparison readings and must be set to the nominal dimension using either micrometer or setting ring
- Button function: On/Off, Set, ABS/INC, Tol, Data transfer
- The digital model allows the display housing to be rotated $\pm 170^\circ$
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5



Inch		Dimensions			
Code No.	Range	Accuracy	L	S	H
400-11-1	.2-.6"	$\pm .0008"$	.787"	.059"	.040"
400-12-1	.4-.8"	$\pm .0008"$	.984"	.118"	.059"
400-13-1	.8-1.2"	$\pm .0008"$	1.181"	.256"	.079"
400-14-1	1.2-1.6"	$\pm .0008"$	1.181"	.354"	.098"
400-15-1	1.6-2.0"	$\pm .0008"$	1.181"	.354"	.098"
400-21-1	.2-1.0"	$\pm .00012"$	1.378"	.059"	.039"
400-22-1	.4-1.2"	$\pm .00012"$	2.165"	.118"	.079"
400-23-1	.8-1.6"	$\pm .00012"$	3.150"	.256"	.118"
400-24-1	1.2-2.0"	$\pm .00012"$	3.150"	.335"	.118"
400-25-1	1.6-2.4"	$\pm .00012"$	3.150"	.335"	.118"

Metric		Dimensions			
Code No.	Range	Accuracy	L	S	H
400-11-0	5-15mm	$\pm 0.02\text{mm}$	20mm	1.0mm	1.5mm
400-12-0	10-20mm	$\pm 0.02\text{mm}$	25mm	1.5mm	3.0mm
400-13-0	20-30mm	$\pm 0.02\text{mm}$	30mm	2.0mm	6.5mm
400-14-0	30-40mm	$\pm 0.02\text{mm}$	30mm	2.5mm	9.0mm
400-15-0	40-50mm	$\pm 0.02\text{mm}$	30mm	2.5mm	9.0mm
400-21-0	5-25mm	$\pm 0.03\text{mm}$	35mm	1.0mm	1.5mm
400-22-0	10-30mm	$\pm 0.03\text{mm}$	55mm	2.0mm	3.5mm
400-23-0	20-40mm	$\pm 0.03\text{mm}$	80mm	3.0mm	6.5mm
400-24-0	30-50mm	$\pm 0.03\text{mm}$	80mm	3.0mm	8.5mm
400-25-0	40-60mm	$\pm 0.03\text{mm}$	80mm	3.0mm	8.5mm

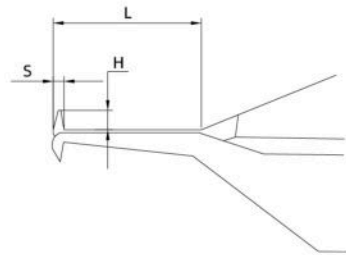


Internal Caliper Gauges

403 Series



403-11-0

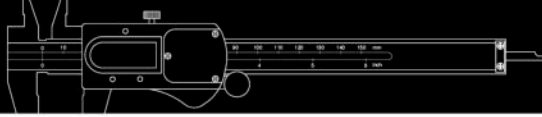


FEATURES

- Graduation:
Inch: .0005"
Metric: 0.01mm
- Designed to measure internal grooves and other intricate detailed internal characteristics
- This measuring instrument provides the nominal dimension using either micrometer or setting ring

Inch		Dimensions			
Code No.	Range	Accuracy	Arm Length (L)	Tipped Length (H)	S
403-11-1	.2-.6"	±.0005"	.787"	.059"	.040"
403-12-1	.4-.8"	±.0005"	.984"	.118"	.059"
403-13-1	.8-1.2"	±.0005"	1.181"	.256"	.079"
403-14-1	1.2-1.6"	±.0005"	1.181"	.354"	.098"
403-15-1	1.6-2.0"	±.0005"	1.181"	.354"	.098"
403-21-1	.2-1.0"	±.0001"	1.378"	.059"	.039"
403-22-1	.4-1.2"	±.0001"	2.165"	.118"	.079"
403-23-1	.8-1.6"	±.0001"	3.150"	.256"	.118"
403-24-1	1.2-2.0"	±.0001"	3.150"	.335"	.118"
403-25-1	1.6-2.4"	±.0001"	3.150"	.335"	.118"

Metric		Dimensions			
Code No.	Range	Accuracy	Arm Length (L)	Tipped Length (H)	S
403-11-0	5-15mm	±0.02mm	20mm	1.5mm	1.0mm
403-12-0	10-20mm	±0.02mm	25mm	3.0mm	1.5mm
403-13-0	20-30mm	±0.02mm	30mm	6.5mm	2.0mm
403-14-0	30-40mm	±0.02mm	30mm	9.0mm	2.5mm
403-15-0	40-50mm	±0.02mm	30mm	9.0mm	2.5mm
403-21-0	5-25mm	±0.03mm	35mm	1.5mm	1.0mm
403-22-0	10-30mm	±0.03mm	55mm	3.5mm	2.0mm
403-23-0	20-40mm	±0.03mm	80mm	6.5mm	3.0mm
403-24-0	30-50mm	±0.03mm	80mm	8.5mm	3.0mm
403-25-0	40-60mm	±0.03mm	80mm	8.5mm	3.0mm

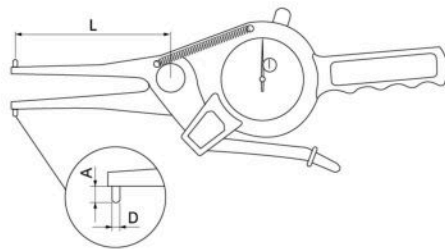


Internal Caliper Gauges

403 Series



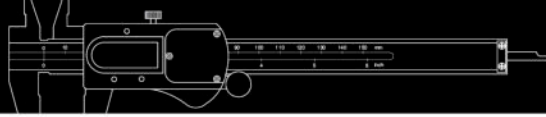
403-11-4



FEATURES

- Graduation: 0.01mm
- Designed to measure internal grooves, and other intricate detailed internal characteristics
- This measuring instrument provides comparison readings and must be set to the nominal dimension using either micrometer or setting ring

Code No.	Range	Graduation	Accuracy	Dimensions		
				L	A	D
403-11-4	15-35mm	0.01mm	±0.04mm	50mm	3mm	Ø3mm
403-12-4	35-55mm	0.01mm	±0.04mm	80mm	6mm	Ø3mm
403-13-4	55-75mm	0.01mm	±0.04mm	90mm	8mm	Ø3mm
403-14-4	75-95mm	0.01mm	±0.04mm	100mm	8mm	Ø3.2mm
403-15-4	95-115mm	0.01mm	±0.04mm	150mm	10mm	Ø3.2mm
403-16-4	115-135mm	0.01mm	±0.04mm	150mm	10mm	Ø3.2mm
403-17-4	135-155mm	0.01mm	±0.04mm	160mm	10mm	Ø3.2mm
403-18-4	155-175mm	0.01mm	±0.04mm	160mm	10mm	Ø3.2mm
403-19-4	175-195mm	0.01mm	±0.04mm	160mm	10mm	Ø3.2mm
403-20-4	195-215mm	0.01mm	±0.04mm	160mm	10mm	Ø3.2mm
403-21-4	215-235mm	0.01mm	±0.04mm	160mm	10mm	Ø3.2mm
403-22-4	235-255mm	0.01mm	±0.04mm	160mm	10mm	Ø3.2mm
403-23-4	255-275mm	0.01mm	±0.04mm	180mm	10mm	Ø3.2mm
403-24-4	275-295mm	0.01mm	±0.04mm	200mm	10mm	Ø3.2mm
403-25-4	295-315mm	0.01mm	±0.04mm	200mm	10mm	Ø3.2mm

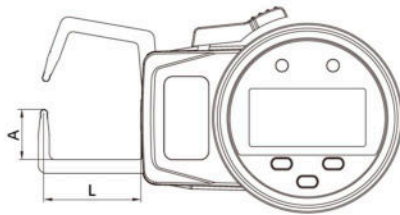


IP65 External Digital Caliper Gauges

404 Series



404-31-0

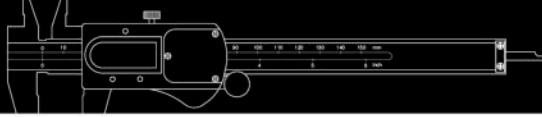


FEATURES

- Designed to measure hard to access external work piece characteristics, provides comparison readings and must be set to the nominal dimension using either gauge blocks or an external setting master
- Button function: On/Off, mm/inch, Preset, Hold, Tol
- Support Bluetooth data transmission (optional)
- Built-in rechargeable lithium battery, magnetic charging port, convenient and fast
- Auto-Off
- Protection level IP65



Inch				Metric			Dimensions			
Code No.	Range	Resolution	Accuracy	Range	Resolution	Accuracy	Data Output Type	A	B	L
404-31-0	0-.4"	.0001"	±.0005"	0-10mm	0.002mm	±0.01mm	-	19.1mm	1mm	35mm
404-32-0	0-.8"	.0002"	±.0008"	0-20mm	0.005mm	±0.02mm	-	24.7mm	1mm	85mm
404-33-0	0-1.2"	.0005"	±.0012"	0-30mm	0.010mm	±0.03mm	-	30mm	1mm	116mm
404-34-0	0-2"	.0005"	±.0016"	0-50mm	0.010mm	±0.04mm	-	30mm	1mm	167mm
404-35-0	0-4"	.0005"	±.0030"	0-100mm	0.010mm	±0.07mm	-	35mm	1mm	382mm
404-31-2	0-.4"	.0001"	±.0005"	0-10mm	0.002mm	±0.01mm	Bluetooth	19.1mm	1mm	35mm
404-32-2	0-.8"	.0002"	±.0008"	0-20mm	0.005mm	±0.02mm	Bluetooth	24.7mm	1mm	85mm
404-33-2	0-1.2"	.0005"	±.0012"	0-30mm	0.010mm	±0.03mm	Bluetooth	30mm	1mm	116mm
404-34-2	0-2"	.0005"	±.0016"	0-50mm	0.010mm	±0.04mm	Bluetooth	30mm	1mm	167mm
404-35-2	0-4"	.0005"	±.0030"	0-100mm	0.010mm	±0.07mm	Bluetooth	35mm	1mm	382mm

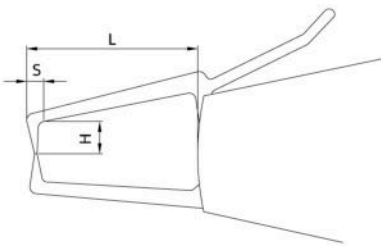


External Caliper Gauges

404 Series



404-21-0



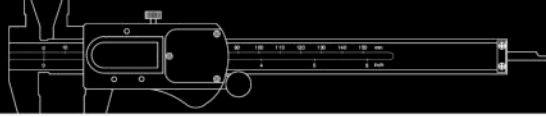
FEATURES

- Resolution: .0002"/0.005mm
- Designed to measure hard to access external work piece characteristics, provides comparison readings and must be set to the nominal dimension using either gauge blocks or an external setting master
- Button function: On/Off, mm/inch, Set, ABS/INC, Tol, Data transfer
- The digital model allows the display housing to be rotated $\pm 170^\circ$
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5



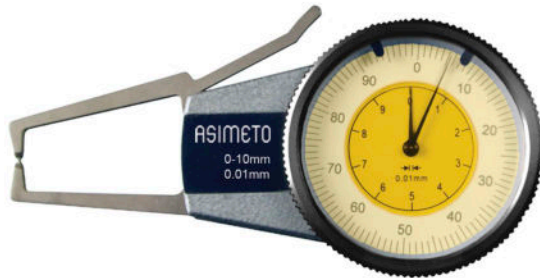
Inch		Dimensions			
Code No.	Range	Accuracy	Arm Length (L)	Tipped Length (H)	S
404-11-1	0-.4"	$\pm .0008"$	.787"	.059"	.118"
404-12-1	.4-.8"	$\pm .0008"$	.984"	.118"	.118"
404-13-1	.8-1.2"	$\pm .0008"$	1.181"	.256"	.118"
404-14-1	1.2-1.6"	$\pm .0008"$	1.181"	.354"	.118"
404-15-1	1.6-2.0"	$\pm .0008"$	1.181"	.354"	.118"
404-21-1	0-.8"	$\pm .00012"$	1.378"	.059"	.256"
404-22-1	.4-1.2"	$\pm .00012"$	2.165"	.118"	.256"
404-23-1	.8-1.6"	$\pm .00012"$	3.150"	.256"	.256"
404-24-1	1.2-2.0"	$\pm .00012"$	3.150"	.335"	.256"
404-25-1	1.6-2.4"	$\pm .00012"$	3.150"	.335"	.256"

Metric		Dimensions			
Code No.	Range	Accuracy	Arm Length (L)	Tipped Length (H)	S
404-11-0	0-10mm	$\pm 0.02\text{mm}$	20mm	1.5mm	3mm
404-12-0	10-20mm	$\pm 0.02\text{mm}$	25mm	3.0mm	3mm
404-13-0	20-30mm	$\pm 0.02\text{mm}$	30mm	6.5mm	3mm
404-14-0	30-40mm	$\pm 0.02\text{mm}$	30mm	9.0mm	3mm
404-15-0	40-50mm	$\pm 0.02\text{mm}$	30mm	9.0mm	3mm
404-21-0	0-20mm	$\pm 0.03\text{mm}$	35mm	1.5mm	6.5mm
404-22-0	10-30mm	$\pm 0.03\text{mm}$	55mm	3.5mm	6.5mm
404-23-0	20-40mm	$\pm 0.03\text{mm}$	80mm	6.5mm	6.5mm
404-24-0	30-50mm	$\pm 0.03\text{mm}$	80mm	8.5mm	6.5mm
404-25-0	40-60mm	$\pm 0.03\text{mm}$	80mm	8.5mm	6.5mm

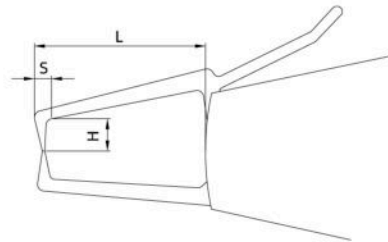


External Caliper Gauges

405 Series



405-11-0

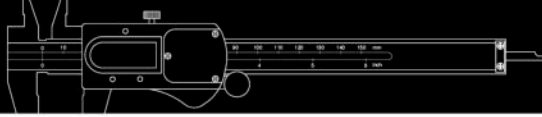


FEATURES

- Graduation:
Inch: .0005"
Metric: 0.01mm
- Designed to measure hard to access external work piece characteristics
- This measuring instrument provides comparison readings and must be set to the nominal dimension using either gauge blocks or an external setting master

Inch					
Code No.	Range	Accuracy	Arm Length (L)	Tipped Length (H)	S
405-11-1	0-.4"	±.0005"	.787"	.059"	.118"
405-12-1	.4-.8"	±.0005"	.984"	.118"	.118"
405-13-1	.8-1.2"	±.0005"	1.181"	.256"	.118"
405-14-1	1.2-1.6"	±.0005"	1.181"	.354"	.118"
405-15-1	1.6-2.0"	±.0005"	1.181"	.354"	.118"
405-21-1	0-.8"	±.0001"	1.378"	.059"	.256"
405-22-1	.4-1.2"	±.0001"	2.165"	.118"	.256"
405-23-1	.8-1.6"	±.0001"	3.150"	.256"	.256"
405-24-1	1.2-2.0"	±.0001"	3.150"	.335"	.256"
405-25-1	1.6-2.4"	±.0001"	3.150"	.335"	.256"

Metric					
Code No.	Range	Accuracy	Arm Length (L)	Tipped Length (H)	S
405-11-0	0-10mm	±0.02mm	20mm	1.5mm	3mm
405-12-0	10-20mm	±0.02mm	25mm	3.0mm	3mm
405-13-0	20-30mm	±0.02mm	30mm	6.5mm	3mm
405-14-0	30-40mm	±0.02mm	30mm	9.0mm	3mm
405-15-0	40-50mm	±0.02mm	30mm	9.0mm	3mm
405-21-0	0-20mm	±0.03mm	35mm	1.5mm	6.5mm
405-22-0	10-30mm	±0.03mm	55mm	3.5mm	6.5mm
405-23-0	20-40mm	±0.03mm	80mm	6.5mm	6.5mm
405-24-0	30-50mm	±0.03mm	80mm	8.5mm	6.5mm
405-25-0	40-60mm	±0.03mm	80mm	8.5mm	6.5mm

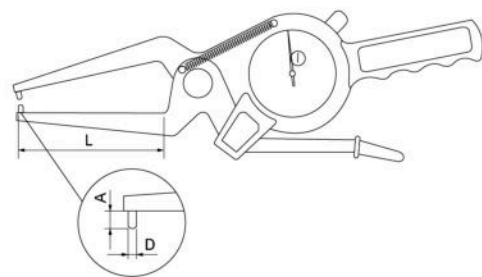


External Caliper Gauges

403 Series



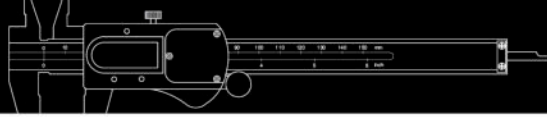
403-11-6



FEATURES

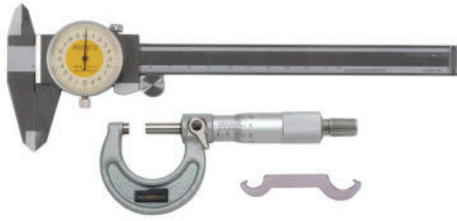
- Graduation: 0.01mm
- Designed to measure hard to access external work piece characteristics
- This measuring instrument provides comparison readings and must be set to the nominal dimension using either gauge blocks or an external setting master

Dimensions						
Code No.	Range	Graduation	Accuracy	L	A	D
403-11-6	0-20mm	0.01mm	±0.04mm	60mm	6mm	Ø3mm
403-12-6	20-40mm	0.01mm	±0.04mm	60mm	6mm	Ø3mm
403-13-6	40-60mm	0.01mm	±0.04mm	55mm	6mm	Ø3mm
403-14-6	60-80mm	0.01mm	±0.04mm	55mm	6mm	Ø4mm
403-15-6	80-100mm	0.01mm	±0.04mm	55mm	6mm	Ø5mm
403-16-6	100-120mm	0.01mm	±0.04mm	95mm	10mm	Ø3.2mm
403-17-6	120-140mm	0.01mm	±0.04mm	95mm	10mm	Ø3.2mm
403-18-6	140-160mm	0.01mm	±0.04mm	95mm	10mm	Ø3.2mm
403-19-6	160-180mm	0.01mm	±0.04mm	95mm	10mm	Ø3.2mm
403-20-6	180-200mm	0.01mm	±0.04mm	95mm	10mm	Ø3.2mm



Tool Kits

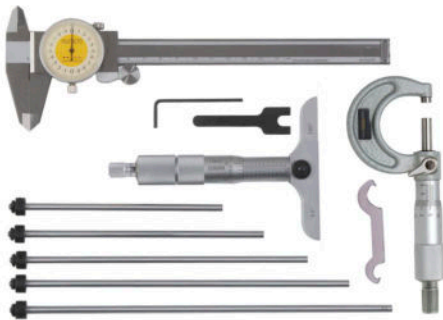
960 Series



960-01-0

Kit #1 Analog

	Code No.	Individual Code No.	Individual Description	
Inch	960-01-1	303-06-1	0-6" x .001"	Dial Caliper
		101-01-3	0-1" x .0001"	Outside Mic.
Metric	960-01-0	303-06-2	0-150mm x 0.02mm	Dial Caliper
		101-01-0	0-25mm x 0.01mm	Outside Mic.



960-02-0

Kit #2 Analog Plus

	Code No.	Individual Code No.	Individual Description	
Inch	960-02-1	303-06-1	0-6" x .001"	Dial Caliper
		101-01-3	0-1" x .0001"	Outside Mic.
		201-06-1	0-6" x .001"	Depth Mic.
Metric	960-02-0	303-06-2	0-150mm x 0.02mm	Dial Caliper
		101-01-0	0-25mm x 0.01mm	Outside Mic.
		201-06-0	0-150mm x 0.01mm	Depth Mic.



960-03-1

Kit #3 Digital Plus

	Code No.	Individual Code No.	Individual Description	
Inch	960-03-1	307-06-5	0-6" x .0005"	Digital Caliper
		105-01-5	0-1" x .00005"	Digital Outside Mic.
		327-08-7	0-8" x .0005"	Digital Depth Caliper
Metric	960-03-0	307-06-5	0-150mm x 0.01mm	Digital Caliper
		105-01-4	0-25mm x 0.001mm	Digital Outside Mic.
		327-08-7	0-200mm x 0.01mm	Digital Depth Caliper



960-05-1

Kit #5 Digital

	Code No.	Individual Code No.	Individual Description	
Inch	960-05-1	307-06-5	0-6" x .0005"	Digital Caliper
		105-01-5	0-1" x .00005"	Digital Outside Mic.
Metric	960-05-0	307-06-5	0-150mm x 0.01mm	Digital Caliper
		105-01-4	0-25mm x 0.001mm	Digital Outside Mic.



960-08-0

Kit #6 Magnetic Base And Dial Gauge

	Code No.	Individual Code No.	Individual Description
Inch	960-06-1	601-01-1	Magnetic Stand With 6" Rods And Universal Clamp
		402-26-1	AGD2 Dial Indicator 0-1" x .001"
Metric	960-06-0	601-01-0	Magnetic Stand With 150mm Rods And Universal Clamp
		402-10-0	AGD2 Dial Indicator 0-10mm x 0.01mm



960-10-0

Kit #10 Magnetic Base And Test Indicator

	Code No.	Individual Code No.	Individual Description
Inch	960-10-1	601-01-1	Magnetic Stand With 6" Rods And Universal Clamp
		501-73-3	Horiz. Dial Test Indicator .03" x .0005"
Metric	960-10-0	601-01-0	Magnetic Stand With 150mm Rods And Universal Clamp
		501-08-2	Horiz. Dial Test Indicator 0.8mm x 0.01mm

Kit #7 Magnetic Base And Dial Gauge Plus

	Code No.	Individual Code No.	Individual Description
Inch	960-07-1	601-01-1	Magnetic Stand With 6" Rods And Universal Clamp
		402-01-1	AGD2 Dial Indicator 0-.050" x .0001"
Metric	960-07-0	601-01-0	Magnetic Stand With 150mm Rods And Universal Clamp
		402-01-0	AGD2 Dial Indicator 0-1mm x 0.001mm

Kit #11 Magnetic Base And Test Indicator Plus

	Code No.	Individual Code No.	Individual Description
Inch	960-11-1	601-01-1	Magnetic Stand With 6" Rods And Universal Clamp
		501-78-3	Horiz. Dial Test Indicator .008" x .0001"
Metric	960-11-0	601-01-0	Magnetic Stand With 150mm Rods And Universal Clamp
		501-02-2	Horiz. Dial Test Indicator 0.2mm x 0.002mm

Kit #8 Magnetic Adj. Base And Dial Gauge

	Code No.	Individual Code No.	Individual Description
Inch	960-08-1	601-02-1	Magnetic Stand With 6" Rods And Universal Clamp/Fine Adjustment
		402-26-1	AGD2 Dial Indicator 0-1" x .001"
Metric	960-08-0	601-02-0	Magnetic Stand With 150mm Rods And Universal Clamp/Fine Adjustment
		402-10-0	AGD2 Dial Indicator 0-10mm x 0.01mm

Kit #12 Magnetic Adj. Base And Test Indicator

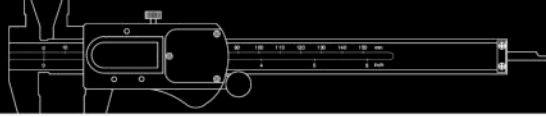
	Code No.	Individual Code No.	Individual Description
Inch	960-12-1	601-02-1	Magnetic Stand With 6" Rods And Universal Clamp/Fine Adjustment
		501-73-3	Horiz. Dial Test Indicator .03" x .0005"
Metric	960-12-0	601-02-0	Magnetic Stand With 150mm Rods And Universal Clamp/Fine Adjustment
		501-08-2	Horiz. Dial Test Indicator 0.8mm x 0.01mm

Kit #9 Magnetic Adj. Base And Dial Gauge Plus

	Code No.	Individual Code No.	Individual Description
Inch	960-09-1	601-02-1	Magnetic Stand With 6" Rods And Universal Clamp/Fine Adjustment
		402-01-1	AGD2 Dial Indicator 0-.050" x .0001"
Metric	960-09-0	601-02-0	Magnetic Stand With 150mm Rods And Universal Clamp/Fine Adjustment
		402-01-0	AGD2 Dial Indicator 0-1mm x 0.001mm

Kit #13 Magnetic Adj. Base And Test Indicator Plus

	Code No.	Individual Code No.	Individual Description
Inch	960-13-1	601-02-1	Magnetic Stand With 6" Rods And Universal Clamp
		501-78-3	Horiz. Dial Test Indicator .008" x .0001"
Metric	960-13-0	601-02-0	Magnetic Stand With 150mm Rods And Universal Clamp
		501-02-2	Horiz. Dial Test Indicator 0.2mm x 0.002mm



960-14-1B



960-14-1B

Kit #14B Digital Plus

	Code No.	Individual Code No.	Individual Description
Inch	960-14-1B	602-02-1	Articulating Arm With Magnetic Base, Type II
		501-73-3	0-.03" x .0005" Horiz. Dial Test Indicator.
		101-01-1	0-1" x .001" Outside Mic.
		105-01-5	0-1" x .00005" Digital Outside Mic.
		402-12-1	0-.5" x .0005" AGD2 Dial Indicator
		407-01-3	0-.5" x .0005" Digital Indicators
		307-56-3	0-6" x .0005" ABS Digital Caliper
		304-06-5	0-6" x .0005" Dial Caliper
Metric	960-14-0B	602-02-1	Articulating Arm With Magnetic Base, Type II
		501-08-2	0-0.8mm x 0.01mm Horiz. Dial Test Indicator.
		101-01-0	0-25mm x 0.01mm Outside Mic.
		105-01-4	0-25mm x 0.001mm Digital Outside Mic.
		402-10-0	0-10mm x 0.01mm AGD2 Dial Indicator
		407-01-2	0-12.5mm x 0.01mm Digital Indicators
		307-56-3	0-150mm x 0.01mm ABS Digital Caliper
		P303-06-0	0-150mm x 0.01mm Dial Caliper



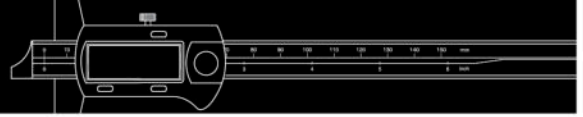
960-16-1

Kit #16 Digital Plus

	Code No.	Individual Code No.	Individual Description
Inch	960-16-1	602-02-1	Articulating Arm With Magnetic Base, Type II
		501-73-3	0-.03" x .0005" Horiz. Dial Test Indicator.
		101-01-3	0-1" x .0001" Outside Mic.
		402-26-1	0-1" x .001" AGD2 Dial Indicator
		301-06-1	0-6" x .0005" IP67 Digital Calipers
Metric	960-16-0	602-02-1	Articulating Arm With Magnetic Base, Type II
		501-08-2	0-0.8mm x 0.01mm Horiz. Dial Test Indicator.
		101-01-2	0-25mm x 0.01mm Outside Mic.
		105-01-4	0-25mm x 0.001mm Digital Outside Mic.
		402-10-0	0-10mm x 0.01mm AGD2 Dial Indicator
		301-06-1	0-150mm x 0.01mm IP67 Digital Calipers

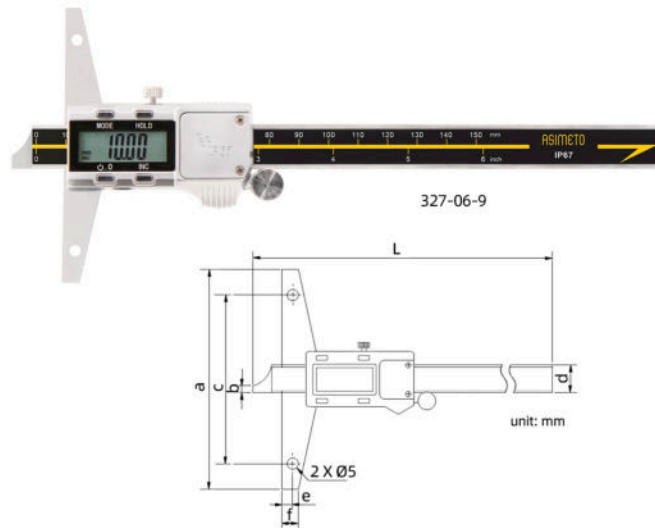
Depth & Height Gauges

166	IP67 Digital Depth Calipers	175	Depth Gauges
166	ABS Digital Depth Calipers	176	Dial Holders
167	ABS Digital Depth Calipers With Single Hook	176	Depth Base Attachment For Calipers
167	ABS Digital Depth Calipers With Double Hook	177	Digital Thickness Gauges
168	Digital Depth Calipers	178	Thickness Gauges
168	Digital Depth Calipers With Single Hook	179	Quick Digital Thickness Gauges
169	Digital Depth Calipers With Double Hook	179	Quick Dial Thickness Gauges
170	Digital Depth Gauges	180	Single Beam Digital Height Gauges With Hand Wheel
171	Vernier Depth Calipers	180	Digital Height Gauges
172	Vernier Depth Calipers With Single Hook	181	Double Beam Digital Height Gauges
173	Vernier Depth Calipers With Double Hook	181	Double Beam Digit Counter Height Gauges
174	Digital Depth Gauges	182	Vernier Height Gauges
174	Thread Vernier Depth Gauges		
175	Digital Depth Gauges		



IP67 Digital Depth Calipers

327 Series



FEATURES

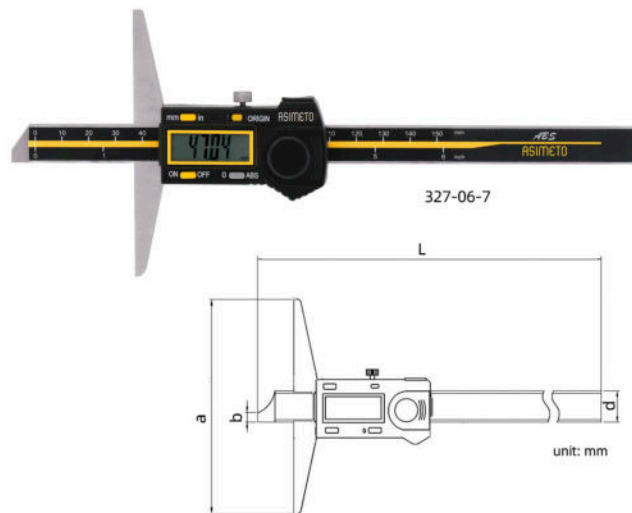
- Resolution: .0005"/0.01mm
- Both of the measuring surfaces are precision ground for accuracy
- Button function: On/Off, Zero, mm/inch, ABS/INC, Hold
- Metal housing, strong and durable
- Hold function for easy reading
- Auto On/Off
- Protection level IP67



Inch			Metric		Dimensions						
Code No.	Range	Accuracy	Range	Accuracy	L	a	c	b	d	e	f
327-06-9	0-6"	±.001"	0-150mm	±0.02mm	232mm	100mm	70mm	6mm	14.5mm	7mm	10mm
327-08-9	0-8"	±.0015"	0-200mm	±0.03mm	285mm	100mm	70mm	6mm	14.5mm	7mm	10mm
327-12-9	0-12"	±.0015"	0-300mm	±0.04mm	390mm	100mm	70mm	6mm	14.5mm	7mm	10mm

ABS Digital Depth Calipers

327 Series

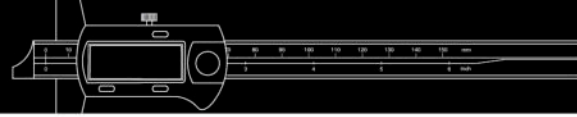


FEATURES

- Resolution: .0005"/0.01mm
- Both of the measuring surfaces are precision ground for accuracy
- Button function: On/Off, ABS, mm/inch, Origin
- Absolute system delivers reliable measurement
- Auto-Off
- Optional accessory:
 - Cable data output: 900-05-4/5
 - Bluetooth data output: 901-01-2/4
 - Wireless data output:
 - Transmitting device: 901-00-4/6
 - Receiver device: 901-00-3

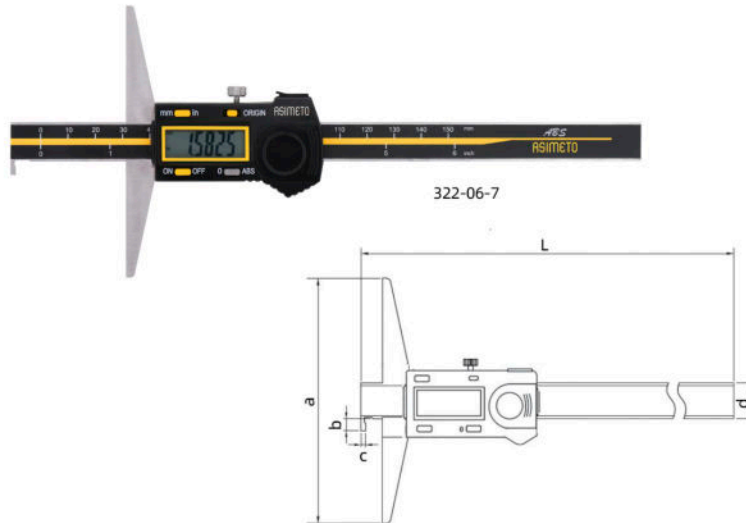


Inch				Metric			Dimensions			
Code No.	Range	Resolution	Accuracy	Range	Resolution	Accuracy	L	a	b	d
327-06-7	0-6"	.0005"	±.001"	0-150mm	0.01mm	±0.03mm	232mm	100mm	6mm	14.5mm
327-08-7	0-8"	.0005"	±.0015"	0-200mm	0.01mm	±0.03mm	285mm	100mm	6mm	14.5mm
327-12-7	0-12"	.0005"	±.0015"	0-300mm	0.01mm	±0.04mm	390mm	100mm	6mm	14.5mm



ABS Digital Depth Calipers With Single Hook

322 Series



FEATURES

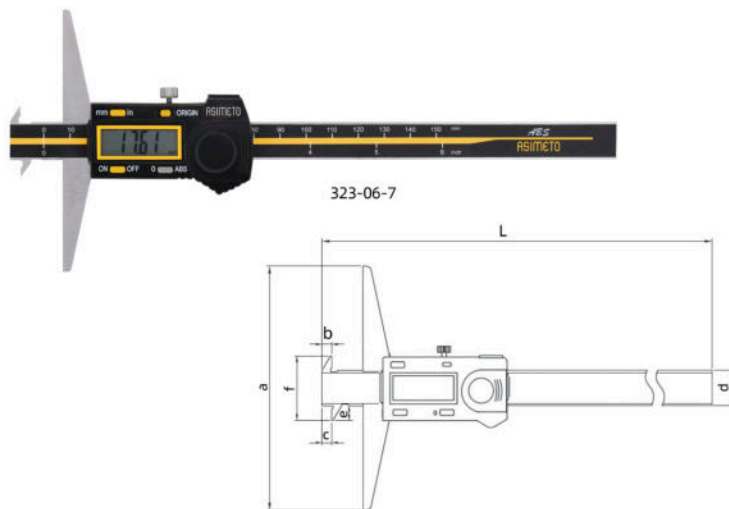
- Resolution: .0005"/0.01mm
- The stationary measuring surface on the beam protrudes at right angles (measuring hook) to allow for the measurement of depths, internal groove positions, and other intricate characteristics
- Measurements can be taken on either side of the measuring hook
- Button function: On/Off, ABS, mm/inch, Origin
- Absolute system delivers reliable measurement
- Auto-Off
- Optional accessory:
 - Cable data output: 900-05-4/5
 - Bluetooth data output: 901-01-2/4
 - Wireless data output:
 - Transmitting device: 901-00-4/6
 - Receiver device: 901-00-3



Inch				Metric			Dimensions				
Code No.	Range	Resolution	Accuracy	Range	Resolution	Accuracy	L	a	b	c	d
322-06-7	0-6"	.0005"	±.001"	0-150mm	0.01mm	±0.03mm	232mm	100mm	5mm	2mm	14.5mm
322-08-7	0-8"	.0005"	±.0015"	0-200mm	0.01mm	±0.03mm	285mm	100mm	5mm	2mm	14.5mm
322-12-7	0-12"	.0005"	±.0015"	0-300mm	0.01mm	±0.04mm	390mm	100mm	5mm	2mm	14.5mm

ABS Digital Depth Calipers With Double Hook

323 Series

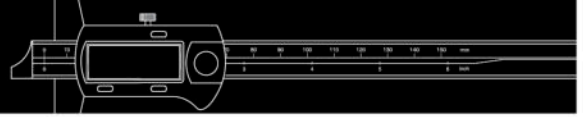


FEATURES

- Resolution: .0005"/0.01mm
- The hooked measuring surfaces are used for measurement of internal or external grooves and other intricate work piece characteristics
- The base and measuring faces are hardened and precision ground
- Button function: On/Off, ABS, mm/inch, Origin
- Absolute system delivers reliable measurement
- Auto-Off
- Optional accessory:
 - Cable data output: 900-05-4/5
 - Bluetooth data output: 901-01-2/4
 - Wireless data output:
 - Transmitting device: 901-00-4/6
 - Receiver device: 901-00-3

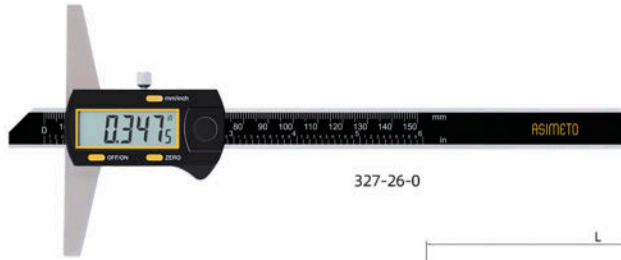


Inch			Metric			Dimensions							
Code No.	Range	Resolution	Accuracy	Range	Resolution	Accuracy	L	a	b	c	d	e	f
323-06-7	0-6"	.0005"	±.001"	0-150mm	0.01mm	±0.03mm	232mm	100mm	4mm	4mm	14.5mm	6mm	26.5mm
323-08-7	0-8"	.0005"	±.0015"	0-200mm	0.01mm	±0.03mm	285mm	100mm	4mm	4mm	14.5mm	6mm	26.5mm
323-12-7	0-12"	.0005"	±.0015"	0-300mm	0.01mm	±0.04mm	390mm	100mm	4mm	4mm	14.5mm	6mm	26.5mm

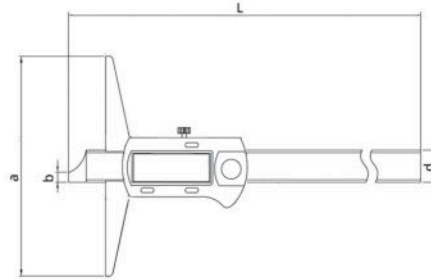


Digital Depth Calipers

327 Series



327-26-0



FEATURES

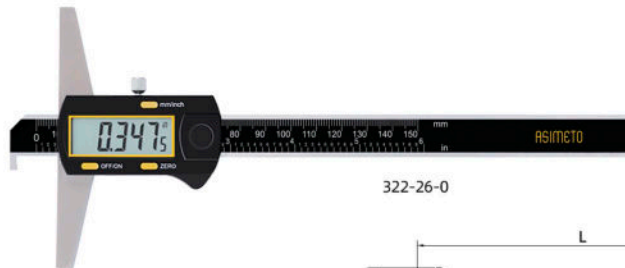
- Resolution: .0005"/0.01mm
- Both of the measuring surfaces are precision ground for accuracy
- Button function: On/Off, mm/inch, Zero
- Auto-Off



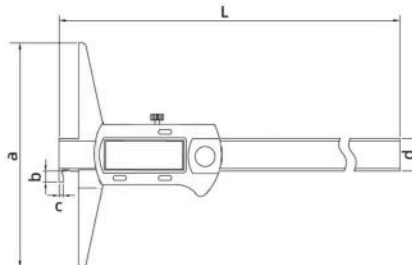
Inch		Metric			Dimensions					
Code No.	Range	Resolution	Accuracy	Range	Resolution	Accuracy	L	a	b	d
327-26-0	0-6"	.001"	±.001"	0-150mm	0.01mm	±0.03mm	235mm	100mm	6mm	14.5mm
327-28-0	0-8"	.001"	±.0015"	0-200mm	0.01mm	±0.03mm	285mm	100mm	6mm	14.5mm
327-32-0	0-12"	.001"	±.0015"	0-300mm	0.01mm	±0.04mm	385mm	100mm	6mm	14.5mm

Digital Depth Calipers With Single Hook

322 Series



322-26-0

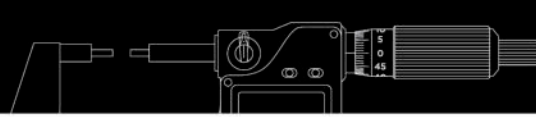


FEATURES

- Resolution: .0005"/0.01mm
- The stationary measuring surface on the beam protrudes at right angles (measuring hook) to allow for the measurement of depths, internal groove positions, and other intricate characteristics
- Button function: On/Off, mm/inch, Zero
- Auto-Off



Inch		Metric			Dimensions						
Code No.	Range	Resolution	Accuracy	Range	Resolution	Accuracy	L	a	b	c	d
322-26-0	0-6"	.001"	±.001"	0-150mm	0.01mm	±0.03mm	235mm	100mm	5mm	2mm	14.5mm
322-28-0	0-8"	.001"	±.0015"	0-200mm	0.01mm	±0.03mm	285mm	100mm	5mm	2mm	14.5mm
322-32-0	0-12"	.001"	±.0015"	0-300mm	0.01mm	±0.04mm	385mm	100mm	5mm	2mm	14.5mm

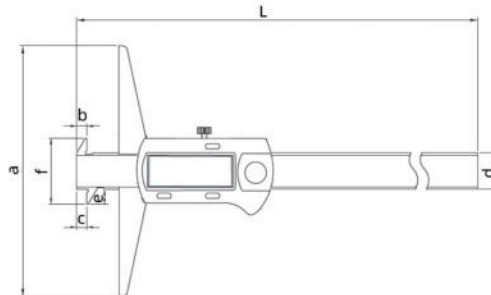


Digital Depth Calipers With Double Hook

323 Series



323-26-0

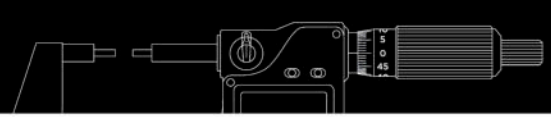


FEATURES

- Resolution: .0005"/0.01mm
- The hooked measuring surfaces are used for measurement of internal or external grooves and other intricate work piece characteristics
- Button function: On/Off, mm/inch, Zero
- Auto-Off

60

Inch			Metric			Dimensions							
Code No.	Range	Resolution	Accuracy	Range	Resolution	Accuracy	L	a	b	c	d	e	f
323-26-0	0-6"	.001"	±.001"	0-150mm	0.01mm	±0.03mm	237.5mm	100mm	2.5mm	2.5mm	14.5mm	3.5mm	21.5mm
323-28-0	0-8"	.001"	±.0015"	0-200mm	0.01mm	±0.03mm	287.5mm	100mm	2.5mm	2.5mm	14.5mm	3.5mm	21.5mm
323-32-0	0-12"	.001"	±.0015"	0-300mm	0.01mm	±0.04mm	387.5mm	100mm	2.5mm	2.5mm	14.5mm	3.5mm	21.5mm



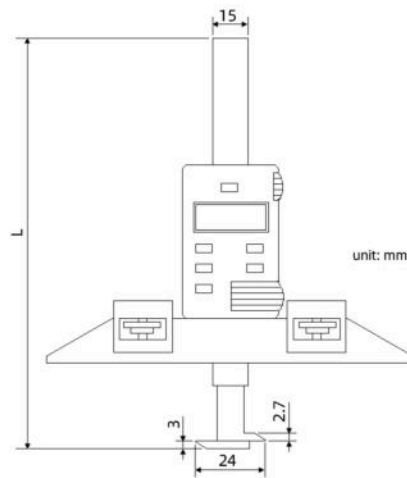
Digital Depth Gauges

327 Series

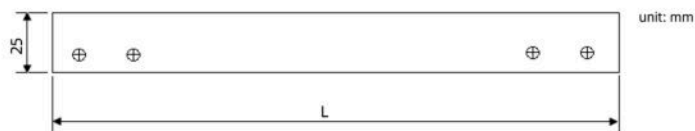


FEATURES

- Resolution: .0005"/0.01mm
- The hooked measuring surfaces are used for measurement of internal or external grooves and other intricate work piece characteristics
- The depth gage can move on the adjustable base, more convenient for measurement.
- Button function: On/Off, mm/inch, Set, ABS, Zero, Tol
- Optional adjustable extension bases



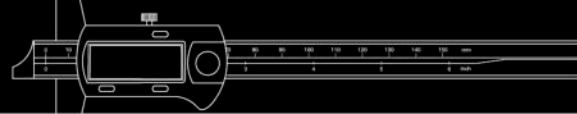
Adjustable Extension Base



Inch			Metric		Dimension
Code No.	Range	Accuracy	Range	Accuracy	L
327-12-4	0-12"	±.0015"	0-300mm	±0.04mm	476mm
327-24-4	0-24"	±.002"	0-600mm	±0.05mm	776mm

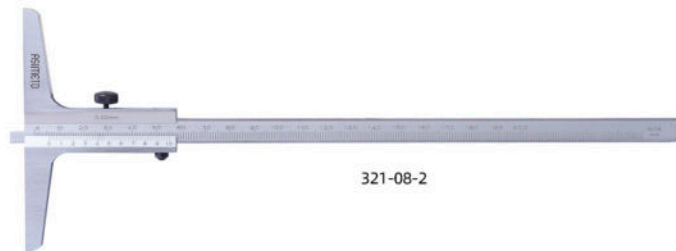
Adjustable Extension Base

Dimensions	
Code No.	A
327-71-3	300mm
327-71-4	400mm
327-71-5	500mm
327-71-6	600mm
327-71-8	800mm

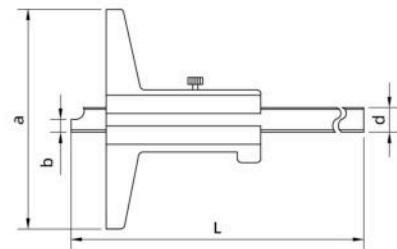


Vernier Depth Calipers

321 Series



321-08-2

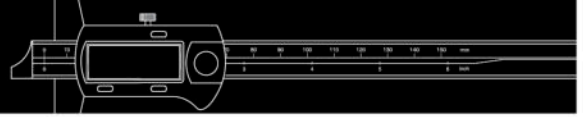


FEATURES

- Graduation:
Inch: .001"
Metric: 0.02mm or 0.05mm
- Both of the measuring surfaces are precision ground for accuracy

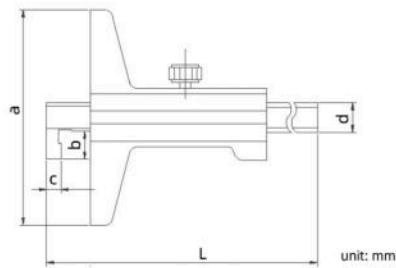
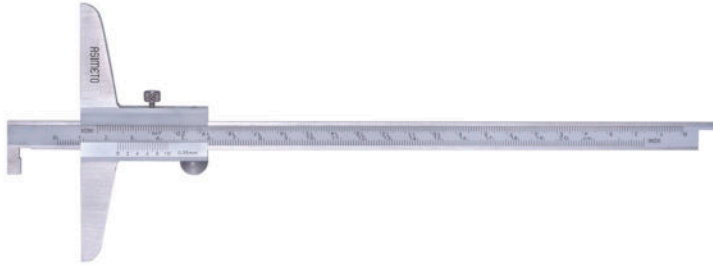
Inch				Dimensions			
Code No.	Range	Graduation	Accuracy	L	a	b	d
321-06-1	0-6"	.001"	±.001"	9.055"	3.937"	.236"	.394"
321-08-1	0-8"	.001"	±.001"	11.024"	3.937"	.236"	.394"
321-12-1	0-12"	.001"	±.001"	14.961"	3.937"	.236"	.394"
321-20-1	0-20"	.001"	±.002"	22.835"	3.937"	.236"	.394"

Metric				Dimensions			
Code No.	Range	Graduation	Accuracy	L	a	b	d
321-06-2	0-150mm	0.02mm	±0.02mm	230mm	100mm	6mm	10mm
321-08-2	0-200mm	0.02mm	±0.02mm	280mm	100mm	6mm	10mm
321-12-2	0-300mm	0.02mm	±0.02mm	380mm	100mm	6mm	10mm
321-20-2	0-500mm	0.02mm	±0.04mm	580mm	100mm	6mm	10mm
321-06-0	0-150mm	0.05mm	±0.05mm	230mm	100mm	6mm	10mm
321-08-0	0-200mm	0.05mm	±0.05mm	280mm	100mm	6mm	10mm
321-12-0	0-300mm	0.05mm	±0.05mm	380mm	100mm	6mm	10mm



Vernier Depth Calipers With Single Hook

322 Series

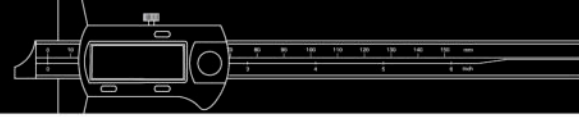


FEATURES

- Graduation:
Inch: .001"
Metric: 0.05mm
- Both of the measuring surfaces are precision ground for accuracy
- The stationary measuring surface on the beam protrudes at right angles (measuring hook) to allow for the measurement of depths, internal groove positions, and other intricate characteristics
- Measurements can be taken on either side of the measuring hook
- Vernier models are designed allowing the main beam to be reversible with corresponding scales on the slider
- All measuring surfaces are hardened

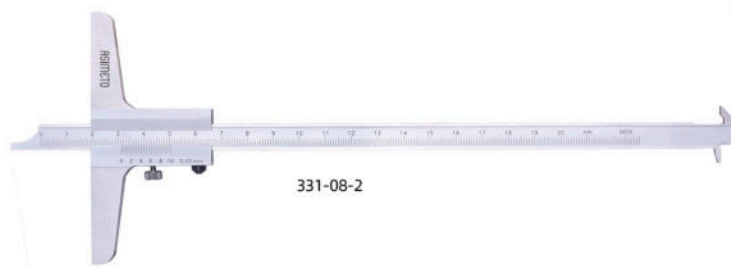
Inch				Dimensions				
Code No.	Range	Graduation	Accuracy	L	a	b	c	d
322-06-3	0-6"	.001"	±.001"	9.055"	3.937"	.394"	.197"	.394"
322-08-3	0-8"	.001"	±.001"	11.024"	3.937"	.394"	.197"	.394"
322-12-3	0-12"	.001"	±.001"	14.961"	3.937"	.394"	.197"	.394"

Metric				Dimensions				
Code No.	Range	Graduation	Accuracy	L	a	b	c	d
322-06-2	0-150mm	0.05mm	±0.05mm	230mm	100mm	10mm	5mm	10mm
322-08-2	0-200mm	0.05mm	±0.05mm	280mm	100mm	10mm	5mm	10mm
322-12-2	0-300mm	0.05mm	±0.05mm	380mm	100mm	10mm	5mm	10mm
322-06-4	0-150mm	0.02mm	±0.02mm	230mm	100mm	10mm	5mm	10mm
322-08-6	0-200mm	0.02mm	±0.02mm	280mm	100mm	10mm	5mm	10mm
322-12-8	0-300mm	0.02mm	±0.02mm	380mm	100mm	10mm	5mm	10mm

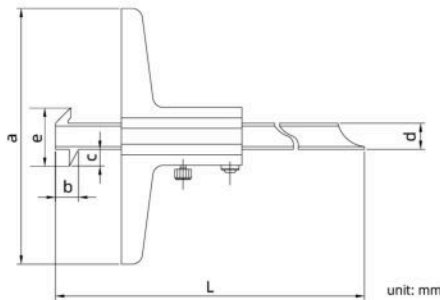


Vernier Depth Calipers With Double Hook

331 Series



331-08-2

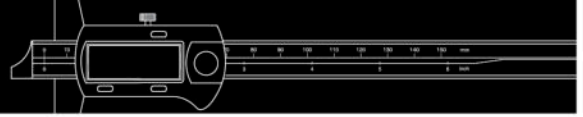


FEATURES

- Graduation:
Inch: .001"
Metric: 0.05mm
- The hooked measuring surfaces are used for measurement of internal or external grooves and other intricate work piece characteristics
- The main beam on the Vernier models is double sided with dual scales, and is able to be reversed in the slider for measurement flexibility
- The base and measuring faces are hardened and precision ground

Inch				Dimensions					
Code No.	Range	Graduation	Accuracy	L	a	b	c	d	e
331-06-3	0-6"	.001"	±.001"	9.055"	3.937"	.157"	.236"	.394"	.866"
331-08-3	0-8"	.001"	±.001"	11.024"	3.937"	.394"	.197"	.394"	.866"
331-12-3	0-12"	.001"	±.001"	14.961"	3.937"	.394"	.197"	.394"	.866"

Metric				Dimensions					
Code No.	Range	Graduation	Accuracy	L	a	b	c	d	e
331-06-2	0-150mm	0.05mm	±0.05mm	230mm	100mm	4mm	6mm	10mm	22mm
331-08-2	0-200mm	0.05mm	±0.05mm	280mm	100mm	4mm	6mm	10mm	22mm
331-12-2	0-300mm	0.05mm	±0.05mm	380mm	100mm	4mm	6mm	10mm	22mm
322-06-4	0-150mm	0.02mm	±0.02mm	230mm	100mm	4mm	6mm	10mm	22mm
322-08-4	0-200mm	0.02mm	±0.02mm	280mm	100mm	4mm	6mm	10mm	22mm
322-12-4	0-300mm	0.02mm	±0.02mm	380mm	100mm	4mm	6mm	10mm	22mm



Digital Depth Gauges

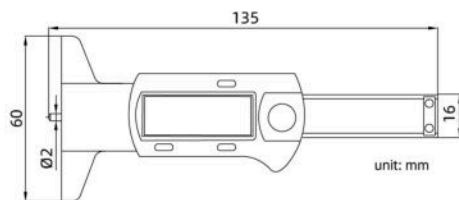
321 Series



321-01-2

FEATURES

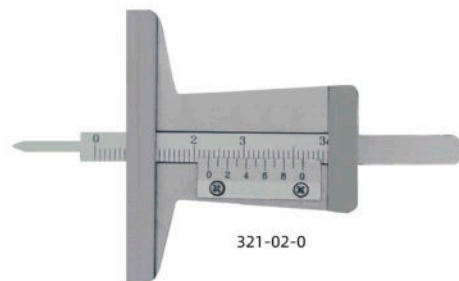
- Resolution: .0005" / 0.01mm
- Button function: On/Off, mm/inch, Zero
- Auto-Off
- Spherical end anvil



	Inch		Metric		
Code No.	Range	Accuracy	Range	Accuracy	Base Length
321-01-2	0-1.2"	±.001"	0-30mm	±0.03mm	60mm

Thread Vernier Depth Gauges

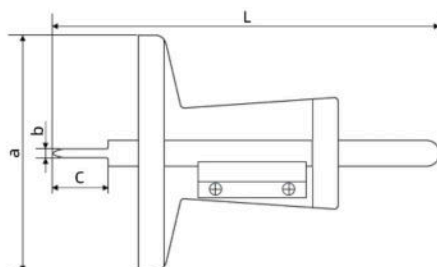
321 Series



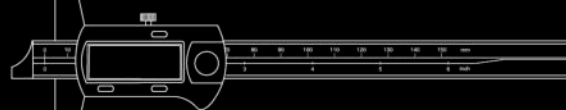
321-02-0

FEATURES

- Graduation: 0.1mm
- Easy to carry
- Used for measuring the tire thread depth



Code No.	Range	Graduation	Accuracy	L	a	b	c
321-02-0	0-30mm	0.1mm	±0.1mm	90mm	55mm	2mm	13mm



Digital Depth Gauges

475 Series



475-04-4

FEATURES

- Resolution:
Inch: .0005" or .00005"
Metric: 0.01mm or 0.001mm
- Button function: On/Off, mm/inch, Zero, Ran, Tol
- The total measuring range is accomplished with threaded depth rods in 10mm intervals
- The base surface is precisely finished and hardened for accurate repeatable measurements
- Optional accessory:
Cable data output: 900-20-0



Inch				Metric					
Code No.	Range	Resolution	Accuracy	Range	Resolution	Accuracy	Stroke	Rods	Base Length
475-04-0	0-4"	.0005"	.0005"	0-100mm	0.01mm	0.02mm	12.7mm	10 pcs	63 x 17mm
475-04-2	0-4"	.0005"	.0005"	0-100mm	0.01mm	0.02mm	12.7mm	10 pcs	101.5 x 17mm
475-04-4	0-4"	.00005"	.0002"	0-100mm	0.001mm	0.01mm	12.7mm	10 pcs	63 x 17mm
475-04-6	0-4"	.00005"	.0002"	0-100mm	0.001mm	0.01mm	12.7mm	10 pcs	101.5 x 17mm

Depth Gauges

473 Series



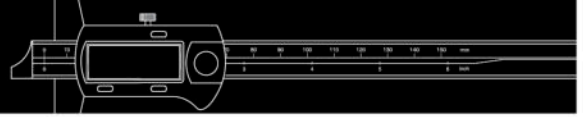
473-04-0

FEATURES

- Graduation:
Inch: .001"
Metric: 0.01mm
- The total measuring range is accomplished with threaded depth rods in 1" or 10mm intervals
- The base surface is precisely finished and hardened for accurate repeatable measurements

Inch						
Code No.	Range	Resolution	Accuracy	Stroke	Rods	Base Length
473-04-1	0-4"	.001"	±.002"	1"	4 pcs	2.5" x .63"
473-04-3	0-4"	.001"	±.002"	1"	4 pcs	4" x .63"

Metric						
Code No.	Range	Resolution	Accuracy	Stroke	Rods	Base Length
473-04-0	0-100mm	0.01mm	0.02mm	10mm	10 pcs	63 x 17mm
473-04-2	0-100mm	0.01mm	0.02mm	10mm	10 pcs	101.5 x 17mm



Dial Holders

500 Series



500-90-1

FEATURES

- Measuring depth with a dial indicator

Code No.	Base Length	Dia. Of Hole	Measuring Rods Qty.
500-90-1	2.5"	3/8"	4 pcs
500-90-3	4"	3/8"	4 pcs
500-90-0	63.5mm	8mm	10 pcs
500-90-2	100mm	8mm	10 pcs

Depth Base Attachment For Calipers

327 Series

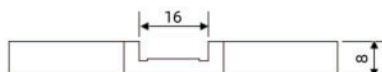
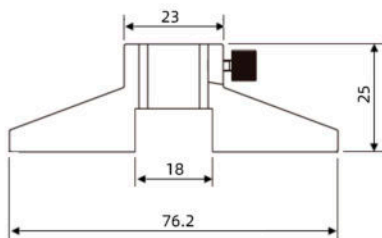


327-66-9

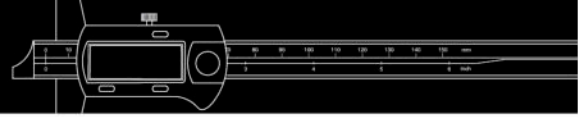
FEATURES

- Suitable for digital calipers with a body width of $\leq 17\text{mm}$ (.669") and a measuring range of 300mm or less
- Made of stainless steel

Code No.	Base Length
327-66-9	75mm/3"



unit: mm



Digital Thickness Gauges

495 Series



495-01-2

FEATURES

- Resolution:
Inch: .0005" or .00005"
Metric: 0.01mm or 0.001mm
- Button function: On/Off, mm/inch, Zero, Ran, Tol
- Design for thickness measurement of paper, film, wire, sheet metal, jewelry, leather and similar materials, etc.
- Flat anvils
- Optional accessory:
Cable data output: 900-20-0



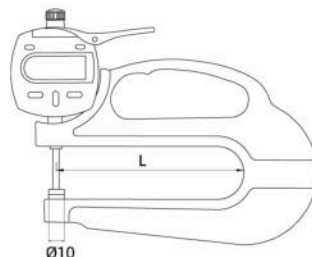
Inch				Metric			
Code No.	Range	Resolution	Accuracy	Range	Resolution	Accuracy	Throat Depth
495-01-2	0-.4"	.0005"	±.0005"	0-10mm	0.01mm	±0.015mm	30mm
495-01-4	0-.4"	.0005"	±.0005"	0-10mm	0.01mm	±0.015mm	50mm
495-01-6	0-.4"	.0005"	±.0005"	0-10mm	0.01mm	±0.015mm	120mm
495-01-5	0-.4"	.00005"	±.0002"	0-10mm	0.001mm	±0.004mm	30mm
495-01-7	0-.4"	.00005"	±.0002"	0-10mm	0.001mm	±0.004mm	50mm
495-01-9	0-.4"	.00005"	±.0002"	0-10mm	0.001mm	±0.005mm	120mm

Digital Thickness Gauges

495 Series



495-02-0



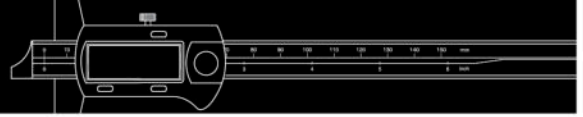
unit:mm

FEATURES

- Resolution:
Inch: .0005" or .00005"
Metric: 0.01mm or 0.001mm
- Button function: On/Off, mm/inch, Zero, Ran, Tol
- Design for thickness measurement of paper, film, wire, sheet metal, jewelry, leather and similar materials, etc.
- Flat anvils
- Optional accessory:
Cable data output: 900-20-0



Inch				Metric			
Code No.	Range	Resolution	Accuracy	Range	Resolution	Accuracy	Deep Throat(L)
495-01-0	0-.4"	.0005"	±.0005"	0-10mm	0.01mm	±0.015mm	30mm
495-02-0	0-.4"	.0005"	±.0005"	0-10mm	0.01mm	±0.015mm	120mm
495-01-3	0-.4"	.00005"	±.0002"	0-10mm	0.001mm	±0.01mm	30mm
495-02-3	0-.4"	.00005"	±.0002"	0-10mm	0.001mm	±0.01mm	120mm

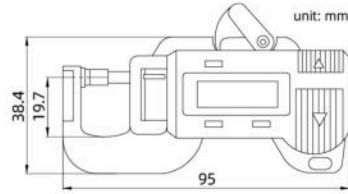


Digital Thickness Gauges

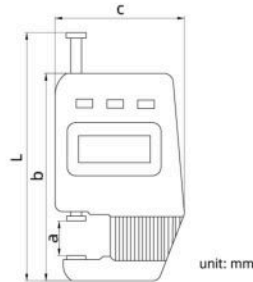
325 Series



325-30-0



325-50-0



FEATURES

- Resolution: .0005"/0.01mm
- Design for thickness measurement of paper, film, wire, sheet metal, jewelry, leather and similar materials, etc.
- Button function: On/Off, mm/inch, Zero
- Auto-Off
- Light weight, easy to operate



Horizontal	Inch	Metric			Dimensions					
Code No.	Range	Resolution	Accuracy	Range	Resolution	Accuracy	L	a	b	c
325-30-0	0-.5"	.0005"	±.0015"	0-12mm	0.01mm	±0.03mm	102.6mm	15.5mm	83.6mm	51mm
325-32-0	0-1"	.0005"	±.0015"	0-25mm	0.01mm	±0.04mm	132.8mm	26mm	104mm	61mm

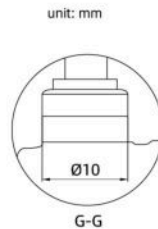
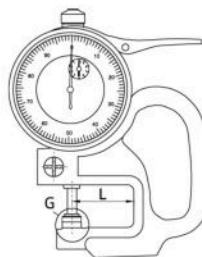
Vertical	Inch	Metric			Dimensions					
Code No.	Range	Resolution	Accuracy	Range	Resolution	Accuracy	L	a	b	c
325-50-0	0-.6"	.0005"	±.0015"	0-15mm	0.01mm	±0.03mm	102.6mm	15.5mm	83.6mm	51mm
325-52-0	0-1"	.0005"	±.0015"	0-25mm	0.01mm	±0.04mm	132.8mm	26mm	104mm	61mm

Thickness Gauges

491 Series



491-01-0

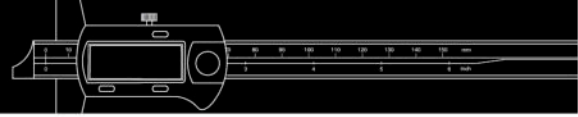


FEATURES

- Graduation:
Inch: .001"
Metric: 0.01mm
- Design for thickness measurement of paper, film, wire, sheet metal, jewelry, leather and similar materials, etc.
- Flat anvils

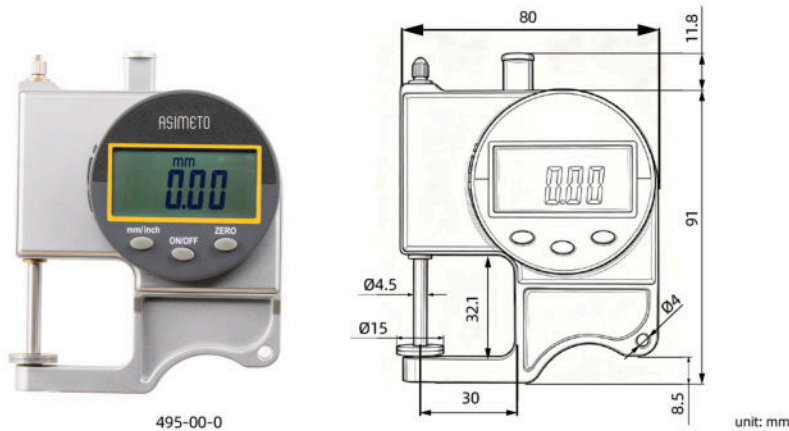
Dial Models				
Code No.	Range	Graduation	Accuracy	Deep Throat(L)
491-01-1	0-.4"	.001"	±.001"	1.18"
491-02-1	0-.4"	.001"	±.001"	4.72"

Dial Models				
Code No.	Range	Graduation	Accuracy	Deep Throat(L)
491-01-0	0-10mm	0.01mm	±0.015mm	30mm
491-02-0	0-10mm	0.01mm	±0.015mm	120mm



Quick Digital Thickness Gauges

495 Series



FEATURES

- Resolution: .0005"/0.01mm
- High strength engineering plastics frame
- Measuring head interchangeable (flat or ball), wide measuring range
- Button function: On/Off, mm/inch, Zero
- Auto-Off
- Depth 30mm

60

Inch				Metric		
Code No.	Range	Resolution	Accuracy	Range	Resolution	Accuracy
495-00-0	0-1"	.0005"	±.0005"	0-25mm	0.01mm	0.05mm

Quick Dial Thickness Gauges

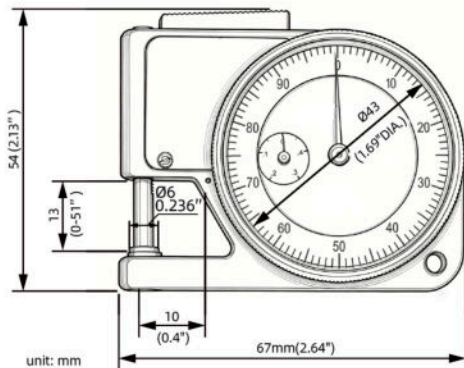
491 Series



491-00-1

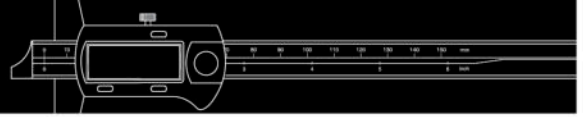
FEATURES

- Graduation: .001"/0.01mm
- Compact design, convenience for quick inspection thickness of paper, leather, wire, plastic, sheet metal and similar materials
- Aluminum main body, stainless steel or ceramic contact point and anvil



Inch			
Code No.	Range	Graduation	Accuracy
491-00-1	0-.4"	.001"	±.001"

Metric			
Code No.	Range	Graduation	Accuracy
491-00-0	0-25mm	0.01mm	0.05mm

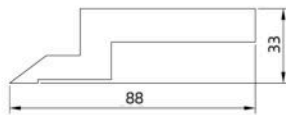


Single Beam Digital Height Gauges With Hand Wheel

626 Series



626-12-0



unit: mm

FEATURES

- Resolution: .0005"/0.01mm
- Button function: On/Off, mm/inch, Zero, Add+, Sub-
- Auto-Off
- Hand wheel designed for fine adjustment
- Carbide tipped scriber provided



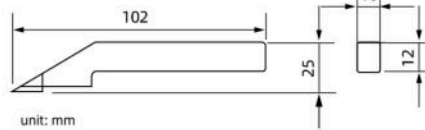
Inch			Metric	
Code No.	Range	Accuracy	Range	Accuracy
626-12-0	0-12"	±.0015"	0-300mm	±0.04mm
626-18-0	0-18"	±.0015"	0-450mm	±0.04mm
626-24-0	0-24"	±.0020"	0-600mm	±0.05mm

Digital Height Gauges

625 Series



625-24-0



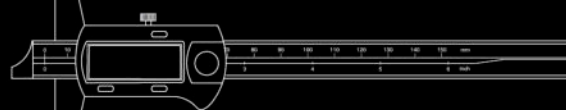
unit: mm

FEATURES

- Resolution: .0005"/0.01mm
- Button function: On/Off, mm/inch, Zero, Hold, Set, ABS
- Auto-Off
- Can be used with a test indicator and holder for precise measurement
- The fine adjustment allows the slider to be precisely positioned
- The base is designed with a thermal heat isolation hand grip



Inch			Metric	
Code No.	Range	Accuracy	Range	Accuracy
625-12-0	0-12"	±.0015"	0-300mm	±0.04mm
625-24-0	0-24"	±.0020"	0-600mm	±0.05mm
625-40-0	0-40"	±.0040"	0-1000mm	±0.07mm

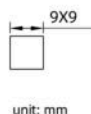
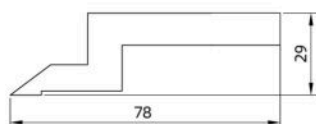


Double Beam Digital Height Gauges

627 Series



627-12-6



unit: mm

FEATURES

- Resolution: .0005"/0.01mm
- Large LCD display
- Button function: On/Off, mm/inch, Zero, Hold, Preset, INC, ABS, Data transfer
- Auto-Off
- High precision, measurement more accurate
- Designed with hand wheel micro-adjustable rack and pinion for precision positioning
- Can be used with a test indicator and holder for precise measurement
- External digital data input function, no need to repeat dial "0" to achieve rapid detection
- Built-in bluetooth data transmission



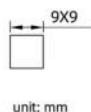
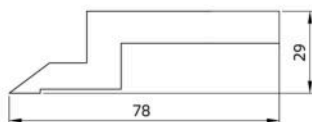
Inch			Metric		
Code No.	Range	Accuracy	Range	Accuracy	Data Output Type
627-12-6	0-12"	±.001"	0-300mm	±0.02mm	Bluetooth
627-18-6	0-18"	±.0015"	0-450mm	±0.03mm	Bluetooth
627-24-6	0-24"	±.0015"	0-600mm	±0.03mm	Bluetooth

Double Beam Digit Counter Height Gauges

623 Series



623-18-0



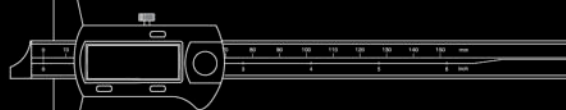
unit: mm

FEATURES

- Graduation:
Inch: .001"
Metric: 0.01mm
- Position is displayed by a combination of the digit counter and the dial
- Hand wheel design for both coarse and fine adjustments
- Digit counter graduation: Inch .1"/Metric 1mm
- The digit counters provide bi-directional positioning and the capability of setting zero at any position

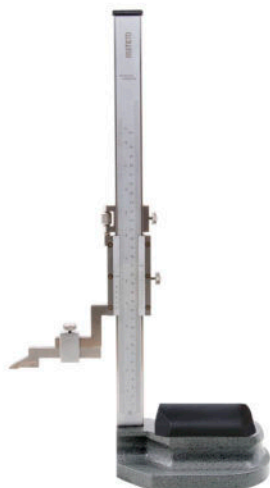
Inch		
Code No.	Range	Accuracy
623-12-1	0-12"	±.0015"
623-18-1	0-18"	±.0020"
623-24-1	0-24"	±.0020"
623-40-1	0-40"	±.0030"

Metric		
Code No.	Range	Accuracy
623-12-0	0-300mm	±0.04mm
623-18-0	0-450mm	±0.05mm
623-24-0	0-600mm	±0.05mm
623-40-0	0-1000mm	±0.07mm

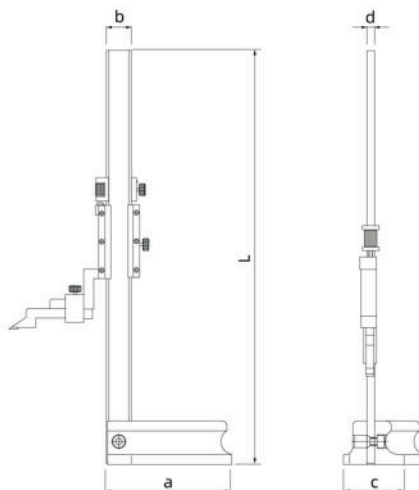


Vernier Height Gauges

621 Series



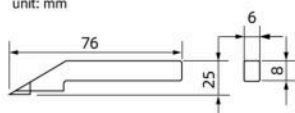
621-12-0



FEATURES

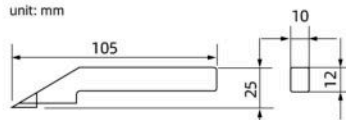
- Graduation:
Inch: .001" or 1/128"
- Metric: 0.02mm or 0.05mm
- The fine-adjustment allows the slider to be precisely positioned
- Matte chrome finish
- Stainless steel design
- The base is designed with a thermal heat isolation hand grip

unit: mm



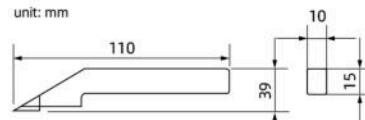
For: 621-08-0L 621-08-2L
621-12-0L 621-12-2L

unit: mm



For: 621-12-0 621-12-2
621-20-0 621-20-2
621-24-0 621-24-2

unit: mm



For: 621-40-0 621-40-2

Inch				Metric			Dimensions				
Code No.	Range	Graduation	Accuracy	Range	Graduation	Accuracy	a	b	c	d	L
621-08-0L	0-8"	1/128"	±.0015"	0-200mm	0.05mm	±0.05mm	135mm	20mm	80mm	6mm	330mm
621-12-0L	0-12"	1/128"	±.0015"	0-300mm	0.05mm	±0.05mm	135mm	20mm	80mm	6mm	430mm
621-12-0	0-12"	1/128"	±.0015"	0-300mm	0.05mm	±0.05mm	175mm	30mm	115mm	10.5mm	520mm
621-20-0	0-20"	1/128"	±.0015"	0-500mm	0.05mm	±0.05mm	175mm	30mm	115mm	10.5mm	720mm
621-24-0	0-24"	1/128"	±.0020"	0-600mm	0.05mm	±0.10mm	175mm	30mm	115mm	10.5mm	820mm
621-40-0	0-40"	1/128"	±.0020"	0-1000mm	0.05mm	±0.10mm	-	-	-	-	-
621-08-2L	0-8"	.001"	±.0015"	0-200mm	0.02mm	±0.02mm	135mm	20mm	80mm	6mm	330mm
621-12-2L	0-12"	.001"	±.0015"	0-300mm	0.02mm	±0.04mm	135mm	20mm	80mm	6mm	430mm
621-12-2	0-12"	.001"	±.0015"	0-300mm	0.02mm	±0.04mm	175mm	30mm	115mm	10.5mm	520mm
621-20-2	0-20"	.001"	±.0015"	0-500mm	0.02mm	±0.04mm	175mm	30mm	115mm	10.5mm	720mm
621-24-2	0-24"	.001"	±.0020"	0-600mm	0.02mm	±0.04mm	175mm	30mm	115mm	10.5mm	820mm
621-40-2	0-40"	.001"	±.0030"	0-1000mm	0.02mm	±0.06mm	-	-	-	-	-

Indicators & Dial Gauges

184	IP65 Digital Indicators	209	Dovetail Stem Sets
185	IP67 Digital Indicators	209	Optional Accessories For ASIMETO Test Indicators
186	Digital Indicators	210	Digital Radius Gauges
187	High-Precision Digital Indicators	210	Centering Indicators
189	Digital Indicators With Analog Display	211	Axial Support Bracket
190	Small Range Digital Indicators	211	Surface Gauges
191	AGD1 Dial Indicators	212	Optional Accessories For ASIMETO Test Indicators
192	AGD2 Dial Indicators	213	High-Precision Digital Height Gauges
195	AGD2 Double Face Dial Indicators	216	Dial Gauge Stands
196	AGD2 Dial Indicators Shock Proof Series	217	Precision Granite Stands
196	AGD2 Dial Indicators IP54 Water Proof Series	218	Permanent Magnetic Bases
197	Crank Shaft Gauges	219	Magnetic Bases
197	Dial Comparators	220	Forced Locking Magnetic Bases
198	Dial Indicators - One Revolution For Error-free Reading	220	Flexible Arm Magnetic Bases
198	Straight Metric Indicator Stem Bushing	221	Articulating Arm Magnetic Bases
199	Extensions For Dial Indicator	222	Universal Forced Locking Arm Magnetic Bases
200	Indicator Points	222	Articulating Arm Magnetic Bases
204	Dial Test Indicators	223	Hydraulic Magnetic Bases
206	Digital Test Indicators	223	Hydraulic Central Locking Mechanism Provide Very Strong Locking Force
207	Extended Range Dial Test Indicators	224	Articulated Power Arms
208	Extended Range Dial Test Indicator Sets	224	Articulated Mechanical Arms



IP65 Digital Indicators

407 Series



407-01-4



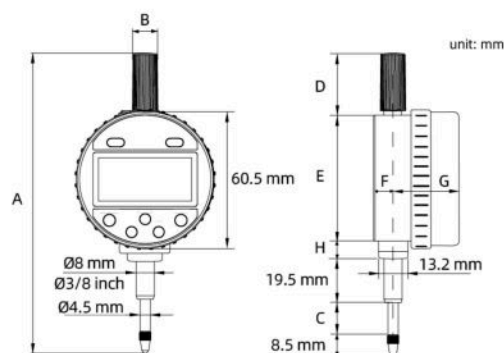
407-02-5



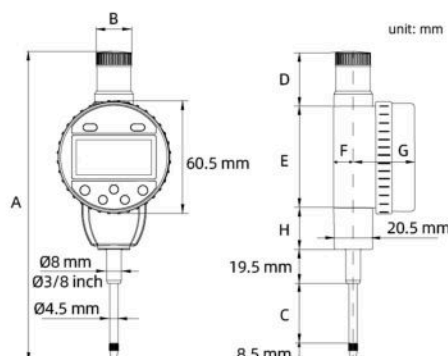
Lifting Level

FEATURES

- Resolution:
Inch: .0005"; .00005"
Metric: 0.01mm; 0.001mm
- Absolute measurement
- Button function: On/Off, mm/inch, ABS/INC, Origin, Preset, Tol +/-
- Auto-Off
- Flat back (attached) and lug back supplied Ø8mm stem diameter for metric models
- Ø3/8" stem diameter for inch models
- 330 deg. screen rotation
- Optional accessory:
Cable data output: 900-07-0/1
Bluetooth data output: 901-01-0/3
Wireless data output:
Transmitting device: 901-00-2/7
Receiver Device: 901-00-3



unit: mm



unit: mm

Inch		Dimensions									
Code No.	Range	Resolution	Accuracy	A	B	C	D	E	F	G	H
407-01-3	0-.5"	.0005"	±.0015"	5.394"	.433"	.532"	1.181"	2.382"	.335"	1.240"	.197"
407-02-3	0-1"	.0005"	±.0015"	6.5554"	.756"	1.240"	1.102"	2.224"	.433"	1.307"	.886"
407-03-3	0-2"	.0005"	±.0015"	9.6064"	.756"	2.205"	2.146"	2.224"	.433"	1.307"	1.929"
407-01-5	0-.5"	.00005"	±.00015"	5.394"	.433"	.532"	1.181"	2.382"	.335"	1.240"	.197"
407-02-5	0-1"	.00005"	±.00015"	6.5554"	.756"	1.240"	1.102"	2.224"	.433"	1.307"	.886"
407-03-5	0-2"	.00005"	±.0002"	9.6064"	.756"	2.205"	2.146"	2.224"	.433"	1.307"	1.929"

Metric		Dimensions									
Code No.	Range	Resolution	Accuracy	A	B	C	D	E	F	G	H
407-01-2	0-12.7mm	0.01mm	0.02mm	137mm	11mm	13.5mm	30mm	60.5mm	8.5mm	31.5mm	5mm
407-02-2	0-25.4mm	0.01mm	0.02mm	166.5mm	19.2mm	31.5mm	28mm	56.5mm	11mm	33.2mm	22.5mm
407-03-2	0-50.8mm	0.01mm	0.02mm	244mm	19.2mm	56mm	54.5mm	56.5mm	11mm	33.2mm	49mm
407-01-4	0-12.7mm	0.001mm	0.004mm	137mm	11mm	13.5mm	30mm	60.5mm	8.5mm	31.5mm	5mm
407-02-4	0-25.4mm	0.001mm	0.005mm	166.5mm	19.2mm	31.5mm	28mm	56.5mm	11mm	33.2mm	22.5mm
407-03-4	0-50.8mm	0.001mm	0.006mm	244mm	19.2mm	56mm	54.5mm	56.5mm	11mm	33.2mm	49mm

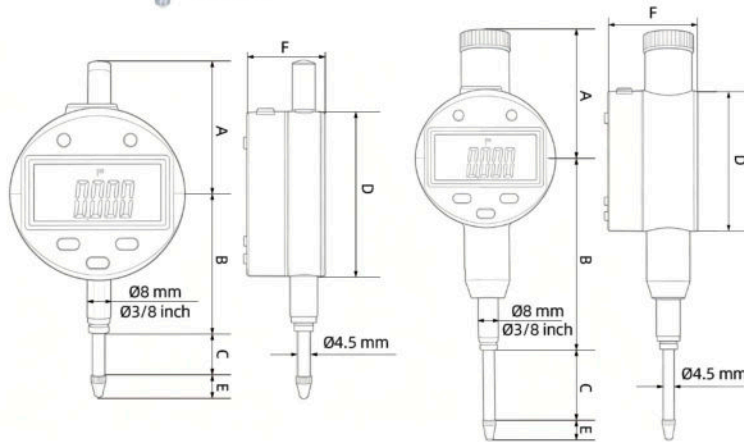


IP67 Digital Indicators

408 Series



408-01-7



unit: mm

FEATURES

- Resolution: .00005"/0.001mm
- Inductive measurement system
- Button function: On/Off, mm/inch, ABS, Zero, Preset, Tol +/-
- With preset value function, the initial value can be set arbitrarily
- Tolerance measurement feature allows for the upper and lower tolerance for maximum and minimum
- Built-in wireless transmission (optional)
- Auto-Off
- Protection level IP67
- Optional accessory:
Cable data output: 900-05-4/5
Bluetooth data output: 901-01-2/4
Wireless data output:
Transmitting device: 901-00-4/6
Receiver Device: 901-00-3



Inch					Dimensions					
Code No.	Range	Accuracy	Resolution	Data Output Type	A	B	C	D	E	F
408-01-7	0-.5"	±.0003"	.00005"	SPC	1.776"	1.843"	.523"	2.205"	.335"	1.095"
408-02-7	0-1"	±.0003"	.00005"	SPC	2.134"	2.953"	1.063"	2.205"	.335"	1.441"
408-03-7	0-2"	±.0004"	.00005"	SPC	3.158"	3.917"	2.047"	2.205"	.335"	1.441"
408-04-7	0-4"	±.0006"	.00005"	SPC	3.158"	3.917"	2.047"	2.205"	.335"	1.441"
408-01-9	0-.5"	±.0003"	.00005"	Bluetooth	1.776"	1.843"	.532"	2.205"	.335"	1.095"
408-02-9	0-1"	±.0003"	.00005"	Bluetooth	2.134"	2.953"	1.063"	2.205"	.335"	1.441"
408-03-9	0-2"	±.0004"	.00005"	Bluetooth	3.158"	3.917"	2.047"	2.205"	.335"	1.441"
408-04-9	0-4"	±.0006"	.00005"	Bluetooth	3.158"	3.917"	2.047"	2.205"	.335"	1.441"

Metric					Dimensions					
Code No.	Range	Accuracy	Resolution	Data Output Type	A	B	C	D	E	F
408-01-6	0-12.7mm	0.007mm	0.001mm	SPC	45.1mm	46.8mm	13.5mm	56.0mm	8.5mm	27.8mm
408-02-6	0-25.4mm	0.008mm	0.001mm	SPC	54.2mm	75.0mm	27.0mm	56.0mm	8.5mm	36.6mm
408-03-6	0-50.8mm	0.010mm	0.001mm	SPC	80.2mm	99.5mm	52.0mm	56.0mm	8.5mm	36.6mm
408-04-6	0-101.6mm	0.015mm	0.001mm	SPC	80.2mm	99.5mm	52.0mm	56.0mm	8.5mm	36.6mm
408-01-8	0-12.7mm	0.007mm	0.001mm	Bluetooth	45.1mm	46.8mm	13.5mm	56.0mm	8.5mm	27.8mm
408-02-8	0-25.4mm	0.008mm	0.001mm	Bluetooth	54.2mm	75.0mm	27.0mm	56.0mm	8.5mm	36.6mm
408-03-8	0-50.8mm	0.010mm	0.001mm	Bluetooth	80.2mm	99.5mm	52.0mm	56.0mm	8.5mm	36.6mm
408-04-8	0-101.6mm	0.015mm	0.001mm	Bluetooth	130.3mm	149.5mm	103.4mm	56.0mm	8.5mm	36.6mm



Digital Indicators

405 Series



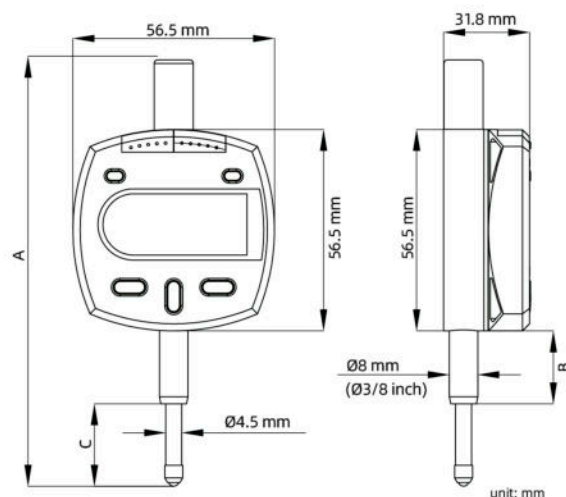
405-01-4



405-02-4

FEATURES

- Resolution:
Inch: .0005"; .00005"
Metric: 0.01mm; 0.001mm
- Button function: On/Off, mm/inch, Zero, Preset, ABS/INC, tol, ran
- The maximum, minimum, or runout value can be displayed during measurement.
- Tolerance measurement feature allows for the upper and lower tolerance for maximum and minimum.
- Flat back (attached) and lug back supplied
- Optional accessory:
Cable data output: 900-20-0



Inch				Dimensions		
Code No.	Range	Resolution	Accuracy	A	B	C
405-95-1	0-.5"	.0005"	±.0015"	4.803"	1.024"	0.945"
405-01-1	0-1"	.0005"	±.0015"	6.850"	1.850"	1.614"
405-02-1	0-2"	.0005"	±.0015"	9.764"	2.795"	2.402"
405-04-1	0-4"	.0005"	±.0015"	15.590"	4.882"	4.016"
405-95-5	0-.5"	.00005"	±.00015"	4.803"	1.024"	0.945"
405-01-5	0-1"	.00005"	±.00015"	6.850"	1.850"	1.614"
405-02-5	0-2"	.00005"	±.0002"	9.764"	2.795"	2.402"
405-04-5	0-4"	.00005"	±.0003"	15.590"	4.882"	4.016"

Metric				Dimensions		
Code No.	Range	Resolution	Accuracy	A	B	C
405-95-0	0-12.7mm	0.01mm	0.02mm	122mm	26mm	24mm
405-01-0	0-25.4mm	0.01mm	0.02mm	174mm	47mm	41mm
405-02-0	0-50.8mm	0.01mm	0.02mm	248mm	71mm	61mm
405-04-0	0-101.6mm	0.01mm	0.03mm	396mm	124mm	102mm
405-95-4	0-12.7mm	0.001mm	0.004mm	122mm	26mm	24mm
405-01-4	0-25.4mm	0.001mm	0.005mm	174mm	47mm	41mm
405-02-4	0-50.8mm	0.001mm	0.006mm	248mm	71mm	61mm
405-04-4	0-101.6mm	0.001mm	0.008mm	396mm	124mm	102mm



High-Precision Digital Indicators

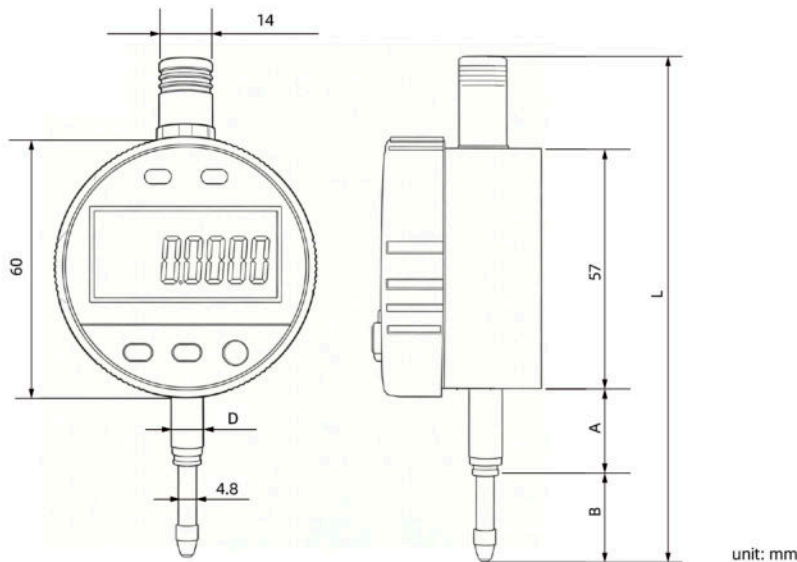
405 Series



405-05-8

FEATURES

- Resolution: .00002" or .00005" switchable, 0.0005mm or 0.001mm switchable
- Absolute measurement
- Button function: On/Off, mm/inch, Zero, Set, ABS, Tol, Hold, Data transfer
- Built-in bluetooth data transmission
- Change of direction of measurement
- Auto-Off; low battery warning
- Type-C charging supports the charging bank
- Virtual keyboard protocol, standard data acquisition
- Protection level IP54



unit: mm

Inch		Dimensions				
Code No.	Range	Accuracy	L	A	B	D
405-05-9	0-0.5"	±.00008"	4.69"	0.87"	0.87"	3/8"
405-01-9	0-1"	±.00008"	5.98"	0.79"	1.38"	3/8"
405-02-9	0-2"	±.00016"	8.76"	0.79"	2.38"	3/8"

Metric		Dimensions				
Code No.	Range	Accuracy	L	A	B	D
405-05-8	0-12.7mm	0.002mm	119mm	22mm	22mm	8mm
405-01-8	0-25.4mm	0.002mm	152mm	20mm	35mm	8mm
405-02-8	0-50.8mm	0.004mm	222.5mm	20mm	60.5mm	8mm



High-Precision Digital Indicators

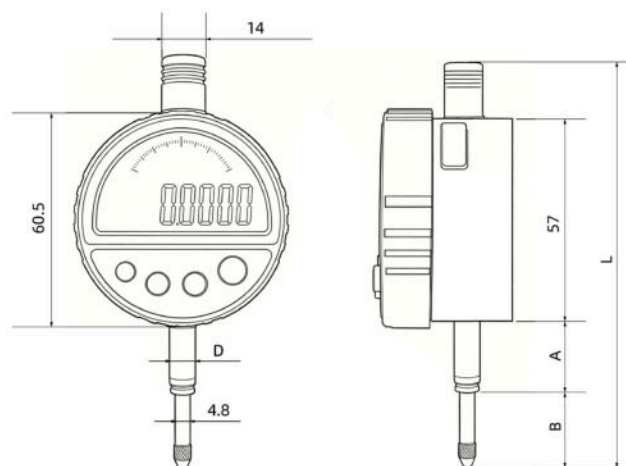
406 Series



406-05-6

FEATURES

- Resolution: .00002", .00005"/0.0005mm, 0.001mm
- Absolute measurement
- 270 deg. screen rotation
- Button function: On/Off, mm/inch, Zero, Set, ABS, Tol, Hold, Data transfer
- Change of direction of measurement
- Analog pointer display: display measurement direction, out of tolerance alarm
- Auto-Off; low battery warning
- Type-C charging supports the charging bank
- Virtual keyboard protocol, standard data acquisition
- Protection level IP54
- Optional accessory:
Cable data output: 900-10-2
Bluetooth data output: 901-01-5



unit: mm

Inch					Dimensions			
Code No.	Range	Resolution	Accuracy	Data Output	L	A	B	D
406-05-7	0-0.5"	.00005"	±.00008"	Without	4.69"	0.87"	0.87"	3/8"
406-01-7	0-1"	.00005"	±.0001"	Without	5.98"	0.79"	1.38"	3/8"
406-02-7	0-2"	.00005"	±.0002"	Without	8.76"	0.79"	2.38"	3/8"
406-05-9	0-0.5"	.00002"	±.00008"	SPC	4.69"	0.87"	0.87"	3/8"
406-01-9	0-1"	.00002"	±.00008"	SPC	5.98"	0.79"	1.38"	3/8"
406-02-9	0-2"	.00002"	±.00016"	SPC	8.76"	0.79"	2.38"	3/8"

Metric					Dimensions			
Code No.	Range	Resolution	Accuracy	Data Output	L	A	B	D
406-05-6	0-12.7mm	0.001mm	0.002mm	Without	119mm	22mm	22mm	8mm
406-01-6	0-25.4mm	0.001mm	0.003mm	Without	152mm	20mm	35mm	8mm
406-02-6	0-50.8mm	0.001mm	0.005mm	Without	222.5mm	20mm	60.5mm	8mm
406-05-8	0-12.7mm	0.0005mm	0.002mm	SPC	119mm	22mm	22mm	8mm
406-01-8	0-25.4mm	0.0005mm	0.002mm	SPC	152mm	20mm	35mm	8mm
406-02-8	0-50.8mm	0.0005mm	0.004mm	SPC	222.5mm	20mm	60.5mm	8mm

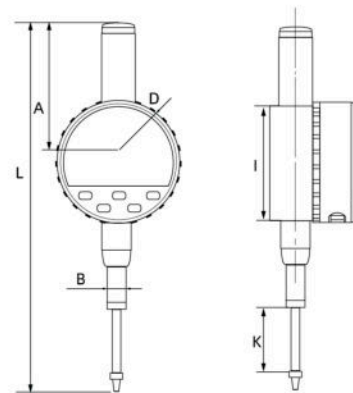
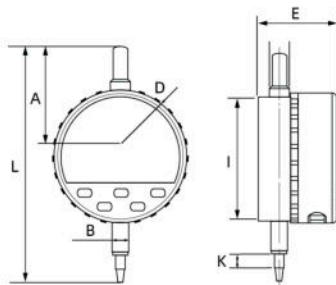


Digital Indicators With Analog Display

406 Series



406-05-0



FEATURES

- Resolution: .00005"/0.002mm, 0.001mm
- Absolute measurement
- 330 deg. screen rotation
- Button function: On/Off, mm/inch, Zero, Set, ABS, Tol, Ran
- Optional accessory:
Cable data output: 900-20-0



Inch				Dimensions						
Code No.	Range	Resolution	Accuracy	A	B	D	E	I	K	L
406-25-1	0-.25"	.00005"	±.00015"	1.803"	Ø3/8"	2.480"	.394"	2.323"	.315"	4.528"
406-05-1	0-.5"	.00005"	±.00015"	2.165"	Ø3/8"	2.480"	.394"	2.323"	.571"	5.157"
406-01-1	0-1"	.00005"	±.00015"	2.795"	Ø3/8"	2.480"	.630"	2.323"	1.260"	7.480"

Metric				Dimensions						
Code No.	Range	Resolution	Accuracy	A	B	D	E	I	K	L
406-25-0	0-6.35mm	0.002mm	0.006mm	45.8mm	Ø8mm	63mm	10mm	59mm	8mm	115mm
406-05-0	0-12.7mm	0.002mm	0.008mm	55mm	Ø8mm	63mm	10mm	59mm	14.5mm	131mm
406-01-0	0-25.4mm	0.002mm	0.015mm	71mm	Ø8mm	63mm	16mm	59mm	32mm	190mm



Small Range Digital Indicators

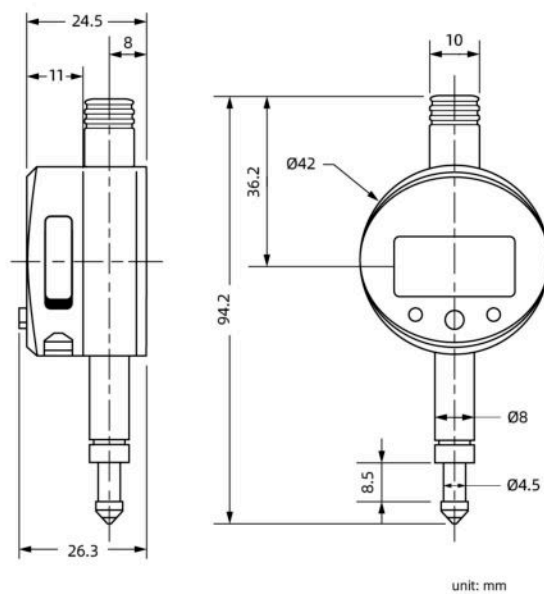
405 Series



405-05-1

FEATURES

- Small size, suitable for limited space
- Absolute/incremental measurement
- Preset real position value
- Button function: On/Off, mm/inch, Set, ABS
- Auto-Off or manual off
- The main body is made of aerometal
- Optional accessory:
Cable data output: 900-20-0



unit: mm

Inch			
Code No.	Range	Resolution	Accuracy
405-05-1	0-.2"	.0005"	±.0008"
405-05-3	0-.2"	.00005"	±.0002"

Metric			
Code No.	Range	Resolution	Accuracy
405-05-0	0-5mm	0.01mm	0.02mm
405-05-2	0-5mm	0.001mm	0.004mm

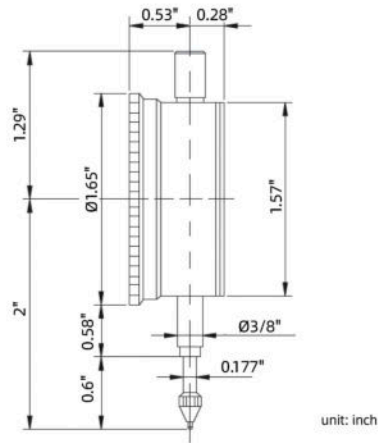


AGD1 Dial Indicators

401 Series



401-06-1



unit: inch

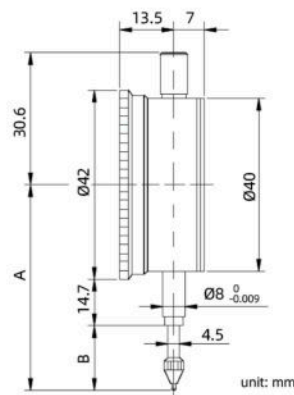
FEATURES

- Graduation:
Inch: .0005"/.001"
Metric: 0.01mm
- Dial face dia.: Ø1.61"/Ø42mm
- Jeweled
- Flat back (attached) and lug back supplied
- Inch models without revolution counter

Code No.	Range	Graduation	Range/Rev.	Dial Reading	Accuracy
401-06-1	0-.25"	.001"	.1"	0-100	±.001"
401-06-3	0-.25"	.001"	.1"	0-50-0	±.001"
401-06-5	0-.25"	.0005"	.05"	0-25-0	±.0005"
401-03-1	0-3mm	0.01mm	0.5mm	0-50	±0.01mm
401-05-1	0-5mm	0.01mm	0.5mm	0-50	±0.012mm
401-05-3	0-5mm	0.01mm	0.5mm	0-25-0	±0.012mm



401-03-0



unit: mm

FEATURES

- Graduation: 0.01mm
- Dial face dia.: Ø1.61"/Ø42mm
- Jeweled
- Flat back (attached) and lug back supplied
- Inch models without revolution counter

Dimensions							
Code No.	Range	Graduation	Range/Rev.	Dial Reading	Accuracy	A	B
401-03-0	0-3mm	0.01mm	0.5mm	0-50	0.010mm	46.4mm	10.7mm
401-05-0	0-5mm	0.01mm	0.5mm	0-50	0.012mm	48.4mm	12.7mm
401-05-2	0-5mm	0.01mm	0.5mm	0-25-0	0.012mm	48.4mm	12.7mm



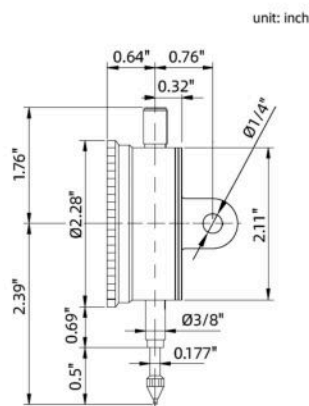
AGD2 Dial Indicators

402 Series

Stem Diameter Ø3/8"



402-01-5



unit: inch

FEATURES

- Graduation: .0001"
- Easy to read dial face
- Jeweled
- Internal tolerance marker
- Flat back (attached) and lug back supplied
- With counter pointer

Accuracy						
Code No.	Range	Graduation	Range/Rev.	Dial Reading	First 2.5 rev	Overall
402-01-1	0-.05"	.0001"	.01"	0-100	±.0001"	±.0003"
402-01-3	0-.05"	.0001"	.01"	0-50-0	±.0001"	±.0003"
402-01-5	0-.05"	.0001"	.01"	0-5-0	±.0001"	±.0003"

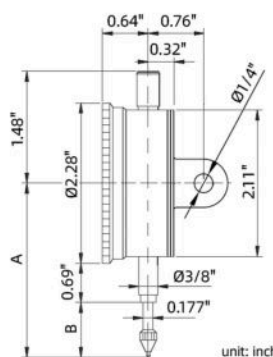
Stem Diameter Ø3/8"



402-06-3



402-12-5



unit: inch

FEATURES

- Graduation: .001"/.0005"
- Easy to read dial face
- Internal tolerance marker
- Flat back (attached) and lug back supplied
- With counter pointer

Accuracy							Dimensions	
Code No.	Range	Graduation	Range/Rev.	Dial Reading	First 2.5 rev	Overall	A	B
402-06-1	0-.25"	.001"	.1"	0-100	±.001"	±.002"	2.54"	0.71"
402-06-3	0-.25"	.001"	.1"	0-50-0	±.001"	±.002"	2.54"	0.71"
402-06-5	0-.25"	.0005"	.05"	0-25-0	±.0005"	±.0015"	2.54"	0.71"

Accuracy								
Code No.	Range	Graduation	Range/Rev.	Dial Reading	First 2.5 rev	Overall	A	B
402-12-1	0-.50"	.001"	.1"	0-100	±.001"	±.002"	2.74"	0.91"
402-12-3	0-.50"	.001"	.1"	0-50-0	±.001"	±.002"	2.74"	0.91"
402-12-5	0-.50"	.0005"	.05"	0-50	±.0005"	±.0015"	2.74"	0.91"
402-26-1	0-1"	.001"	.1"	0-100	±.001"	±.002"	3.21"	1.38"
402-26-3	0-1"	.001"	.1"	0-50-0	±.001"	±.002"	3.21"	1.38"
402-26-5	0-1"	.0005"	.05"	0-50	±.0005"	±.002"	3.21"	1.38"



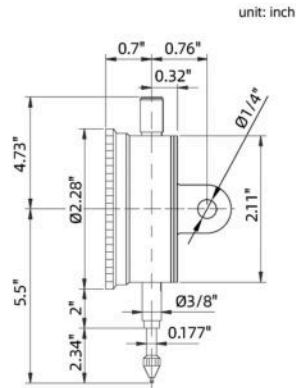
AGD2 Dial Indicators

402 Series

Stem Diameter Ø3/8"



402-51-1

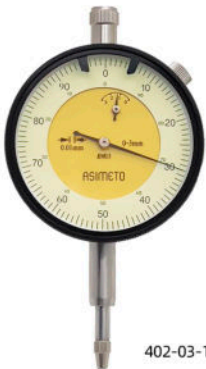


FEATURES

- Graduation: .001"
- Easy to read dial face
- Internal tolerance marker
- Flat back (attached) and lug back supplied
- With counter pointer

Inch		Accuracy				
Code No.	Range	Graduation	Range/Rev.	Dial Reading	First 2.5 rev	Overall
402-51-1	0-2"	.001"	.1"	0-100	±.001"	±.004"
402-51-5	0-2"	.0005"	.1"	0-50	±.0005"	±.002"

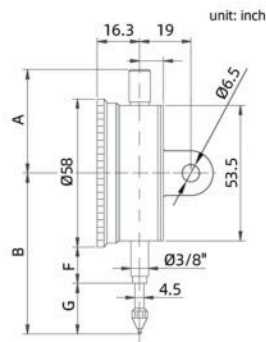
Stem Diameter Ø3/8"



402-03-1



402-10-1



FEATURES

- Graduation: 0.01mm
- Easy to read dial face
- Jeweled
- Internal tolerance marker
- Flat back (attached) and lug back supplied
- With counter pointer

Dimensions									
Code No.	Range	Graduation	Range/Rev.	Dial Reading	Accuracy	A	B	F	G
402-03-1	0-3mm	0.01mm	1mm	0-100	±0.01mm	43.7mm	68.5mm	18.3mm	15mm
402-03-3	0-3mm	0.01mm	1mm	0-50-0	±0.01mm	43.7mm	68.5mm	18.3mm	15mm
402-05-1	0-5mm	0.01mm	1mm	0-100	±0.012mm	43.7mm	68.5mm	18.3mm	15mm
402-05-3	0-5mm	0.01mm	1mm	0-50-0	±0.012mm	43.7mm	68.5mm	18.3mm	15mm

Dimensions									
Code No.	Range	Graduation	Range/Rev.	Dial Reading	Accuracy	A	B	F	G
402-10-1	0-10mm	0.01mm	1mm	0-100	0.015mm	43.7mm	68.5mm	18.3mm	15mm
402-10-3	0-10mm	0.01mm	1mm	0-50-0	0.015mm	43.7mm	68.5mm	18.3mm	15mm
402-20-1	0-20mm	0.01mm	1mm	0-50-0	0.025mm	37.5mm	80.5mm	17.5mm	34mm
402-25-3	0-25mm	0.01mm	1mm	0-50-0	0.035mm	37.5mm	80.5mm	17.5mm	34mm



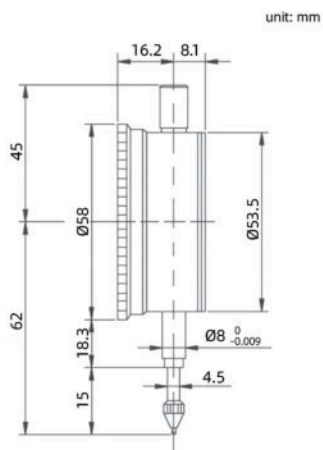
AGD2 Dial Indicators

402 Series

Stem Diameter Ø8mm



402-01-0



FEATURES

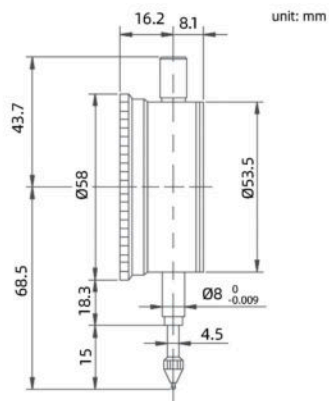
- Graduation: 0.001mm/0.002mm
- Easy to read dial face
- Jeweled
- Internal tolerance marker
- Flat back (attached) and lug back supplied
- With counter pointer

Code No.	Range	Graduation	Range/Rev.	Dial Reading	Accuracy
402-01-0	0-1mm	0.001mm	0.2mm	0-200	0.005mm
402-01-2	0-1mm	0.001mm	0.2mm	0-100-0	0.005mm
402-01-6	0-1mm	0.002mm	0.4mm	0-100-0	0.006mm
402-01-7	0-1mm	0.002mm	0.4mm	0-100-0	0.006mm
402-01-8	0-1mm	0.001mm	0.1mm	0-100	0.005mm

Stem Diameter Ø8mm



402-10-0



FEATURES

- Graduation: 0.01mm
- Easy to read dial face
- Jeweled
- Internal tolerance marker
- Flat back (attached) and lug back supplied
- With counter pointer

Code No.	Range	Graduation	Range/Rev.	Dial Reading	Accuracy
402-03-0	0-3mm	0.01mm	1mm	0-100	0.010mm
402-03-2	0-3mm	0.01mm	1mm	0-50-0	0.010mm
402-05-0	0-5mm	0.01mm	1mm	0-100	0.012mm
402-05-2	0-5mm	0.01mm	1mm	0-50-0	0.012mm
402-10-0	0-10mm	0.01mm	1mm	0-100	0.015mm
402-10-2	0-10mm	0.01mm	1mm	0-50-0	0.015mm



AGD2 Double Face Dial Indicators

402 Series

Stem Diameter Ø8mm

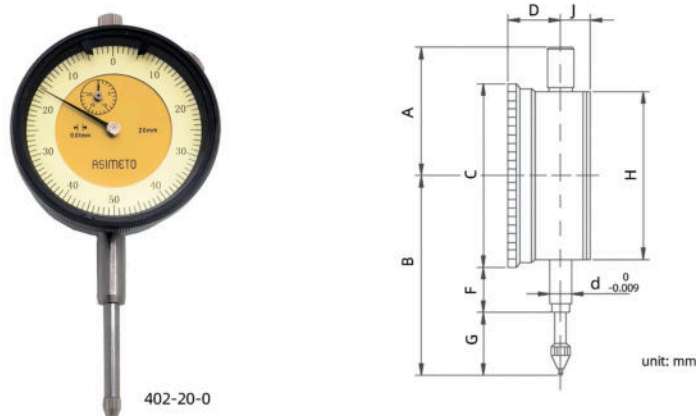


FEATURES

- Graduation: 0.01mm
- Easy to read dial face
- Jeweled
- Internal tolerance marker
- With counter pointer

Metric					
Code No.	Range	Graduation	Range/Rev.	Dial Reading	Accuracy
402-11-0	0-10mm	0.01mm	1mm	0-50-0	0.015mm
				0-100	

Stem Diameter Ø8mm/Ø10mm



FEATURES

- Graduation: 0.01mm
- Easy to read dial face
- Jeweled
- Internal tolerance marker
- Flat back (attached) and lug back supplied
- With counter pointer

Metric					Dimensions									
Code No.	Range	Graduation	Range/ Rev.	Dial Reading	Accuracy	A	B	C	D	F	G	H	J	d
402-20-0	0-20mm	0.01mm	1mm	0-50-0	0.25mm	37.5mm	80.5mm	58mm	16.3mm	17.5mm	34mm	53.5mm	8.4mm	Ø8mm
402-20-2	0-20mm	0.01mm	1mm	0-100	0.25mm	37.5mm	80.5mm	58mm	16.3mm	17.5mm	34mm	53.5mm	8.4mm	Ø8mm
402-25-0	0-25mm	0.01mm	1mm	0-50-0	0.035mm	37.5mm	80.5mm	58mm	16.3mm	17.5mm	34mm	53.5mm	8.4mm	Ø8mm
402-25-2	0-25mm	0.01mm	1mm	0-100	0.035mm	37.5mm	80.5mm	58mm	16.3mm	17.5mm	34mm	53.5mm	8.4mm	Ø8mm
402-30-0	0-30mm	0.01mm	1mm	0-100	0.035mm	37.5mm	88mm	58mm	16mm	21.5mm	37.5mm	53.5mm	9mm	Ø8mm
402-30-2	0-30mm	0.01mm	1mm	0-50-0	0.035mm	37.5mm	88mm	58mm	16mm	21.5mm	37.5mm	53.5mm	9mm	Ø8mm
402-50-0	0-50mm	0.01mm	1mm	0-100	0.035mm	108.3mm	126.2mm	58mm	19.2mm	39.5mm	57.7mm	53.5mm	8mm	Ø8mm
402-00-0	0-100mm	0.01mm	1mm	0-100	0.050mm	167.6mm	207.8mm	78mm	19.8mm	60.8mm	108mm	69mm	9mm	Ø10mm



AGD2 Dial Indicators

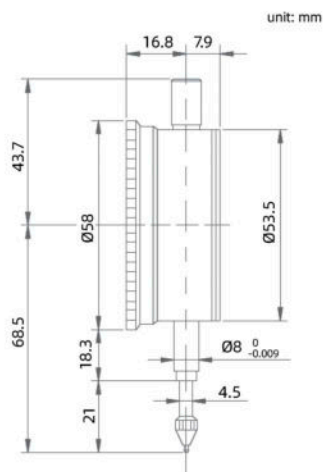
402 Series

Shock Proof Series

Stem Diameter Ø8mm



402-20-8



unit: mm

FEATURES

- Graduation: 0.01mm
- Easy to read dial face
- Jeweled
- Internal tolerance marker
- Flat back (attached) and lug back supplied
- With counter pointer

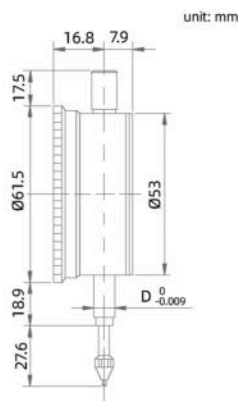
Metric					
Code No.	Range	Graduation	Range/Rev.	Dial Reading	Accuracy
402-05-4	0-5mm	0.01mm	1mm	0-100	0.012mm
402-10-8	0-10mm	0.01mm	1mm	0-100	0.015mm
402-20-8	0-20mm	0.01mm	1mm	0-100	0.025mm

IP54 Water Proof Series

402 Series



402-10-4



unit: mm

FEATURES

- Graduation:
inch: .001"/.0005"
Metric: 0.01mm
- Easy to read dial face
- Jeweled
- Internal tolerance marker
- Flat back (attached) and lug back supplied
- With counter pointer

Code No.	Range	Graduation	Range/Rev.	Dial Reading	Accuracy	D
Stem Dia. Ø8mm						
402-10-4	0-10mm	0.01mm	1mm	0-100	0.015mm	Ø8mm
Stem Dia. Ø3/8"						
402-26-7	0-0.4"	.001"	.1"	0-100	.002"	Ø3/8"
Stem Dia. Ø3/8"						
402-26-9	0-0.4"	.0005"	.05"	0-50	.0015"	Ø3/8"



Crank Shaft Gauges

469 Series



469-10-3

FEATURES

- Graduation: 0.01mm
- For checking crank shafts and crank shaft bearings of motors for ships, cars, trucks etc. Also in departments for grinding crankshafts, repair of crankshafts and especially for checking of motors or compressors in situ.

Metric

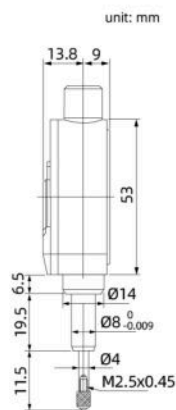
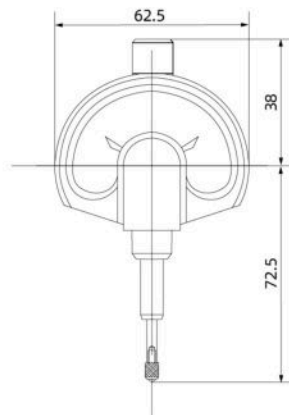
Code No.	Range	Dial Travel	Resolution
469-10-3	60-300mm	0-3mm	0.01mm
469-10-5	60-500mm	0-3mm	0.01mm

Dial Comparators

422 Series



422-21-2



unit: mm

FEATURES

- Resolution: 0.001mm
- High accuracy
- Jeweled and shock proof
- Water and dust resistant design

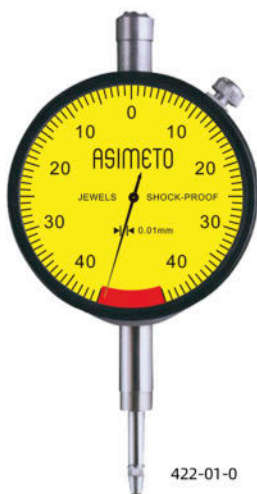
G Series

Code No.	Range	Resolution	Dial Reading	Accuracy	D
422-21-1	±.002"	.00005"	.002 - 0 - .002	±.00006"	3/8"
422-21-2	±0.05mm	0.001mm	50-0-50	0.0012mm	8mm

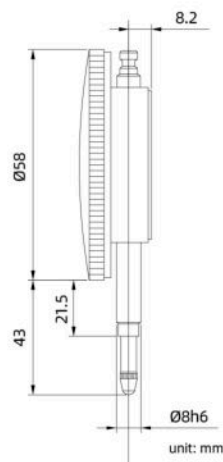


Dial Indicators - One Revolution For Error-free Reading

422 Series



422-01-0



FEATURES

- Graduation: 0.01mm
- AGD2 series, dial face dia. Ø58mm
- Easy to read dial face
- A pair of limit hands are provided for quick and easy tolerance judgment
- Provided with an improved resistance to shop floor contaminants such as water and dust
- With flat back
- With Ø8mm stem diameter

Metric				
Code No.	Range	Graduation	Dial Reading	Accuracy
422-01-0	±0.4mm	0.01mm	40-0-40	0.009mm

G Series				
Code No.	Range	Graduation	Dial Travel	Accuracy
422-02-1	±0.08mm	0.001mm	90-0-90	0.009mm
422-03-1	±0.2mm	0.005mm	20-0-20	0.009mm
422-04-1	±0.08mm	0.002mm	90-0-90	0.009mm
422-05-1	±0.4mm	0.01mm	40-0-40	0.009mm

Straight Metric Indicator Stem Bushing

500 Series



500-32-0

FEATURES

- Accepts 8mm stem, converts to 3/8" diameter stem
- Straight bushing, no head
- .500" length
- Brass, Nickel Plated

Code No.

500-32-0



Extensions For Dial Indicator

477 Series



477-03-8



FEATURES

- Use to gain extra length
- Stainless steel

Inch	Dimensions			
Code No.	L	D	Thread	Material
477-10-7	1/2"	Ø.157"	4-48UNF	Steel
477-12-7	1"	Ø.157"	4-48UNF	Steel
477-16-7	2"	Ø.157"	4-48UNF	Steel
477-18-7	3"	Ø.157"	4-48UNF	Steel
477-19-7	4"	Ø.157"	4-48UNF	Steel
477-20-7	5"	Ø.157"	4-48UNF	Steel
477-21-7	6"	Ø.157"	4-48UNF	Steel
Inch Set				
477-04-7	6PCS/SET, 1" , 2" ,3" , 4" ,5" ,6"	Ø.157"	4-48UNF	Steel

Metric	Dimensions			
Code No.	L	D	Thread	Material
477-10-6	10mm	Ø4mm	M2.5	Steel
477-11-6	15mm	Ø4mm	M2.5	Steel
477-12-6	20mm	Ø4mm	M2.5	Steel
477-13-6	25mm	Ø4mm	M2.5	Steel
477-14-6	30mm	Ø4mm	M2.5	Steel
477-15-6	40mm	Ø4mm	M2.5	Steel
477-16-6	50mm	Ø4mm	M2.5	Steel
477-17-6	60mm	Ø4mm	M2.5	Steel
477-18-6	70mm	Ø4mm	M2.5	Steel
477-19-6	75mm	Ø4mm	M2.5	Steel
477-20-6	80mm	Ø4mm	M2.5	Steel
477-21-6	90mm	Ø4mm	M2.5	Steel
477-23-6	100mm	Ø4mm	M2.5	Steel
Metric Set				
477-03-8	9PCS/SET, 10, 15, 20, 25, 30, 40, 50, 80, 100MM	Ø4MM	M2.5	Steel



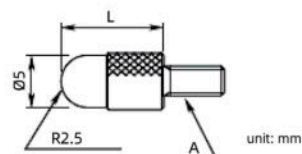
Indicator Points

476 Series

Shell Type Points



476-01-0



unit: mm

Shell Type Points

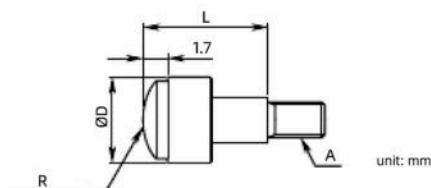
Code No.	Radius	Length	Thread (A)	Material
476-01-0	2.5mm	5mm	M2.5	Steel
476-02-0	2.5mm	10mm	M2.5	Steel
476-03-0	2.5mm	15mm	M2.5	Steel
476-04-0	2.5mm	20mm	M2.5	Steel

Spherical Points

476 Series



476-05-0



unit: mm

Spherical Points

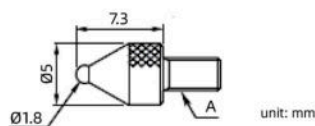
Code No.	Probe Dia.	Radius	Length	Thread (A)	Material
476-07-0	10mm	9mm	2.38mm	M2.5	Steel

Ball Points

476 Series



476-08-0



unit: mm

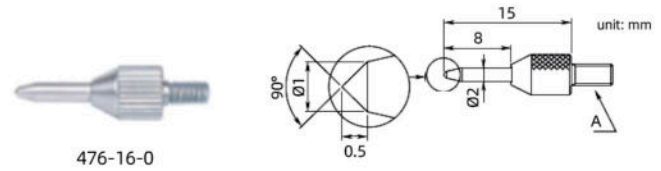
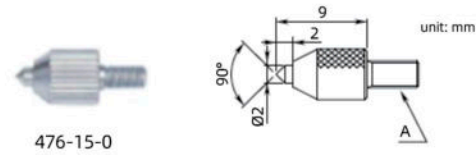
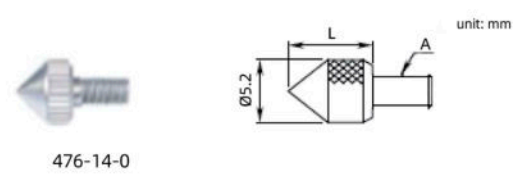
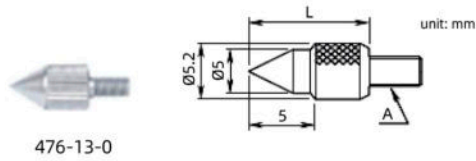
Ball Points

Code No.	Ball Diameter	Length	Thread (A)	Material
476-08-0	1mm	7.3mm	M2.5	Carbide Ball
476-09-0	1.5mm	7.3mm	M2.5	Carbide Ball
476-10-0	1.8mm	7.3mm	M2.5	Carbide Ball
476-11-0	2.5mm	7.3mm	M2.5	Carbide Ball
476-12-0	4mm	7.3mm	M2.5	Carbide Ball



Conical Points

476 Series

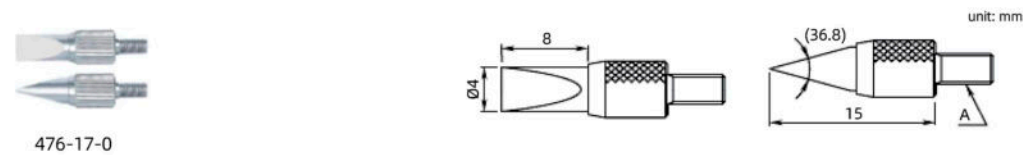


Conical Points

Code No.	Taper Angle	Dia.	Length	Thread (A)	Material
476-13-0	60°	5.2mm	10mm	M2.5	Steel
476-14-0	90°	5.2mm	5mm	M2.5	Steel
476-15-0	90°	5.2mm	9mm	M2.5	Steel
476-16-0	90°	1mm	15mm	M2.5	Steel

Knife Edge Points

476 Series



Knife Edge Points

Code No.	Dia.	Length	Thread (A)	Material
476-17-0	4mm	8mm	M2.5	Steel

Flat Points

476 Series



Flat Points

Code No.	Dia.	Length	Thread (A)	Material
476-18-0	5mm	8mm	M2.5	Steel
476-19-0	5mm	10mm	M2.5	Steel

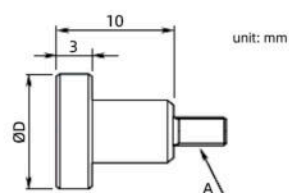


Flat Points



476-20-0

476 Series



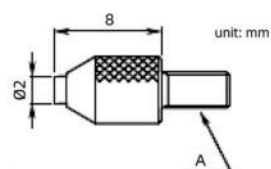
Flat Points				
Code No.	Dia.	Length	Thread (A)	Material
476-20-0	10mm	10mm	M2.5	Steel
476-21-0	15mm	10mm	M2.5	Steel
476-22-0	20mm	10mm	M2.5	Steel
476-23-0	25mm	10mm	M2.5	Steel
476-24-0	30mm	10mm	M2.5	Steel

Flat Points



476-25-0

476 Series



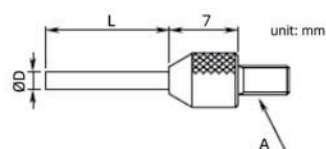
Flat Points				
Code No.	Dia.	Length	Thread (A)	Material
476-25-0	2mm	8mm	M2.5	Carbide

Needle Points



476-26-0

476 Series



Needle Points				
Code No.	Dia.	Length	Thread (A)	Material
476-26-0	0.45mm	3mm	M2.5	Carbide
476-27-0	0.45mm	5mm	M2.5	Carbide
476-28-0	1mm	3mm	M2.5	Carbide
476-29-0	1mm	5mm	M2.5	Carbide
476-30-0	1mm	8mm	M2.5	Carbide
476-31-0	1mm	10mm	M2.5	Carbide
476-32-0	1mm	20mm	M2.5	Carbide
476-33-0	1mm	40mm	M2.5	Carbide
476-34-0	1.5mm	5mm	M2.5	Carbide
476-35-0	1.5mm	10mm	M2.5	Carbide
476-36-0	1.5mm	13mm	M2.5	Carbide
476-37-0	1.5mm	20mm	M2.5	Carbide
476-38-0	1.5mm	40mm	M2.5	Carbide
476-39-0	2mm	8mm	M2.5	Carbide
476-40-0	2mm	18mm	M2.5	Carbide
476-41-0	2mm	28mm	M2.5	Carbide
476-42-0	2mm	40mm	M2.5	Carbide

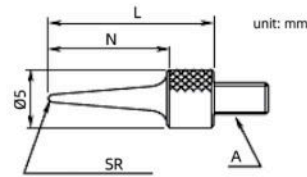


Needle Points

476 Series



476-43-0



unit: mm

Needle Points

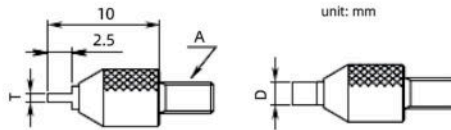
Code No.	Dia.	Tip Radius	Length	Thread	Material
476-43-0	2mm	0.4mm	11mm	M2.5	Steel
476-44-0	2mm	0.2mm	13mm	M2.5	Steel
476-45-0	3mm	0.4mm	21mm	M2.5	Steel
476-46-0	3mm	0.4mm	31mm	M2.5	Steel

Knife Edge Points

476 Series



476-43-0



unit: mm

Knife Edge Points

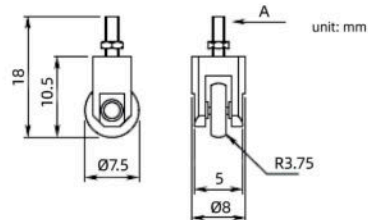
Code No.	Blade Thickness	Blade Width	Blade Length	Thread	Material
476-47-0	0.4mm	2mm	2.5mm	M2.5	Steel
476-48-0	0.6mm	2mm	2.5mm	M2.5	Steel
476-49-0	1mm	4mm	2.5mm	M2.5	Steel

Roller Points

476 Series



476-50-0



unit: mm

Roller Point

Code No.	Roller Diameter	Roller Thickness	Roller Surface Arc Radius	Thread	Material
476-50-0	7.5mm	1.5mm	R3.75mm	M2.5	Steel

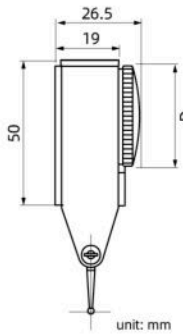
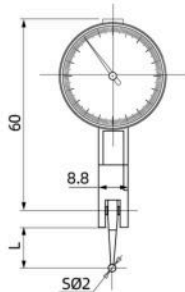


Dial Test Indicators

501/502/511/512 Series



Horizontal 501-78-3



FEATURES

- Graduation:
Inch: .0001"; .0005"
Metric: 0.002mm; 0.01mm
- Jeweled bearings
- Inch unit comes with Ø3/8" dovetail stems
- Metric unit comes with Ø8mm dovetail stems
- Easy to read yellow face
- Horizontal models and Vertical models are available
- Ruby contact point
- 501-02-1 is with copper body

Full Set:



Stem Dia.
Metric: Ø8mm
Inch: Ø3/8"



Stem Dia.
Metric: 4mm
Inch: .157"



Swivel Clamp
Metric: for Ø4mm & Ø8mm Dia.
Inch: for Ø3/8" & Ø.157" Dia.



Carbide Tipped Point
DIA. Ø2mm



Steel Point
DIA. Ø1mm



Holding Bar
Metric: 9 x 9 x 100mm
Inch: .25" x .5" x 4"

Base Set:



Stem Dia.
Metric: Ø8mm
Inch: Ø3/8"

Ruby Contact Point
DIA. Ø2mm

Inch							
Code No.	Set Code No.	Range	Resolution	Dial Reading	Accuracy	L	Note
D: Ø32mm / Ø1.26" Dia.							
501-78-3	501-78-7	.008"	.0001"	0-4-0	±.0001"	.504"	Horizontal
501-73-3	501-73-8	.03"	.0005"	0-15-0	±.0005"	.531"	Horizontal
501-73-6	-	.03"	.0005"	0-15-0	±.0005"	.945"	Horizontal

Metric							
Code No.	Set Code No.	Range	Resolution	Dial Reading	Accuracy	L	Note
D: Ø32mm / Ø1.26" Dia.							
501-02-1	-	0.2mm	0.002mm	0-100-0	0.004mm	12.2mm	Horizontal
501-02-2	501-02-7	0.2mm	0.002mm	0-100-0	0.004mm	12.8mm	Horizontal
501-05-2	501-05-7	0.5mm	0.01mm	0-25-0	0.013mm	14.4mm	Horizontal
501-08-2	501-08-7	0.8mm	0.01mm	0-40-0	0.013mm	14.4mm	Horizontal
501-08-8	-	0.8mm	0.01mm	0-40-0	0.013mm	25.4mm	Horizontal
501-10-2	501-10-7	1.0mm	0.01mm	0-50-0	0.013mm	18.8mm	Horizontal
501-10-8	-	1.0mm	0.01mm	0-50-0	0.013mm	32.6mm	Horizontal
D: Ø40mm / Ø1.57" Dia.							
502-02-2	502-02-7	0.2mm	0.002mm	0-100-0	0.004mm	12.8mm	Horizontal
502-05-2	502-05-7	0.5mm	0.01mm	0-25-0	0.013mm	14.4mm	Horizontal
502-08-2	502-08-7	0.8mm	0.01mm	0-40-0	0.013mm	14.4mm	Horizontal
502-10-2	502-10-7	1.0mm	0.01mm	0-50-0	0.013mm	18.8mm	Horizontal

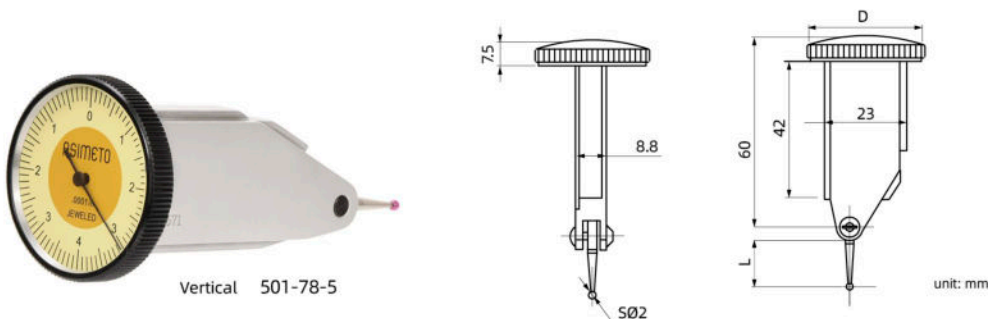


Dial Test Indicators

501/502/511/512 Series

G Series		Metric	Dimensions				
Code No.	Set Code No.	Range	Resolution	Dial Reading	Accuracy	L	Note
D:Ø32mm/Ø1.26" Dia.							
501-02-6	-	0.2mm	0.002mm	0-100-0	0.004mm	11.8mm	Horizontal
501-08-6	-	0.8mm	0.01mm	0-40-0	0.008mm	11.8mm	Horizontal
D:Ø40mm/Ø1.57" Dia.							
502-02-6	-	0.2mm	0.002mm	0-100-0	0.004mm	11.8mm	Horizontal
502-08-6	-	0.8mm	0.01mm	0-40-0	0.008mm	11.8mm	Horizontal

G Series IP53 Model		Metric	Dimensions				
Code No.	Set Code No.	Range	Resolution	Dial Reading	Accuracy	L	Note
D:Ø32mm/Ø1.26" Dia.							
511-02-6	-	0.2mm	0.002mm	0-100-0	0.004mm	11.8mm	Horizontal
511-08-6	-	0.8mm	0.01mm	0-40-0	0.013mm	11.8mm	Horizontal
D:Ø40mm/Ø1.57" Dia.							
512-02-6	-	0.2mm	0.002mm	0-100-0	0.004mm	11.8mm	Horizontal
512-08-6	-	0.8mm	0.01mm	0-40-0	0.013mm	11.8mm	Horizontal



Vertical 501-78-5

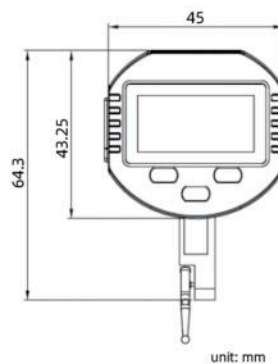
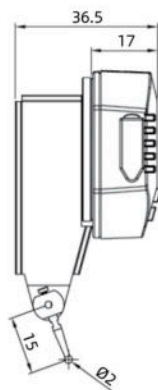
		Inch	Dimensions				
Code No.	Set Code No.	Range	Resolution	Dial Reading	Accuracy	L	Note
D:Ø32mm/Ø1.26" Dia.							
501-78-5	-	.008"	.0001"	0-4-0	±.0001"	.504"	Vertical
501-73-5	-	.03"	.0005"	0-15-0	±.0005"	.531"	Vertical

		Metric	Dimensions				
Code No.	Set Code No.	Range	Resolution	Dial Reading	Accuracy	L	Note
D:Ø32mm/Ø1.26" Dia.							
501-02-4	-	0.2mm	0.002mm	0-100-0	0.004mm	12.8mm	Vertical
501-05-4	-	0.5mm	0.01mm	0-25-0	0.013mm	14.4mm	Vertical
501-08-4	-	0.8mm	0.01mm	0-40-0	0.013mm	14.4mm	Vertical
501-10-4	-	1.0mm	0.01mm	0-50-0	0.013mm	18.8mm	Vertical
D:Ø40mm/Ø1.57" Dia.							
502-02-4	-	0.2mm	0.002mm	0-100-0	0.004mm	12.8mm	Vertical
502-05-4	-	0.5mm	0.01mm	0-25-0	0.013mm	14.4mm	Vertical
502-08-4	-	0.8mm	0.01mm	0-40-0	0.013mm	14.4mm	Vertical
502-10-4	-	1.0mm	0.01mm	0-50-0	0.013mm	18.8mm	Vertical



Digital Test Indicators

505 Series



FEATURES

- Button function: On/Off, mm/inch, Set, Ata
- Built-in wireless transmission
- Analog pointer display
- Protection level IP65



Inch				Metric		
Code No.	Range	Resolution	Accuracy	Range	Resolution	Accuracy
505-01-2	0-0.03"	.00005"	.0005"	0-0.8mm	0.001mm	0.013mm



Extended Range Dial Test Indicators

503/504 Series



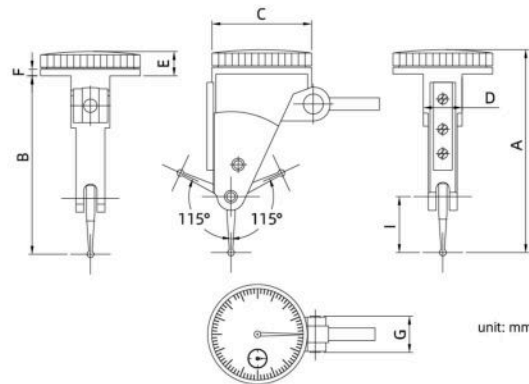
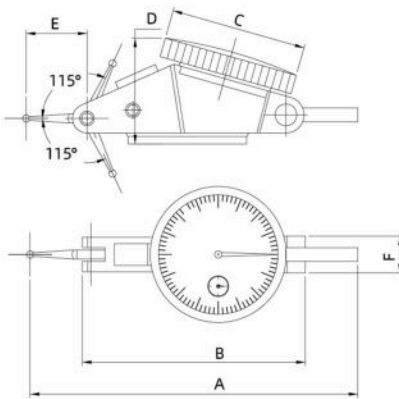
503-06-1

503-56-1

504-56-3

FEATURES

- Graduation:
Inch: .0005"/.001"
Metric: 0.01mm
- Jeweled bearing design and resistant to magnetic fields
- Stem diameter: Inch: 5/32", Metric: 4mm
- Ruby contact point swivel 210 degrees
- Horizontal and vertical models are available
- 30 and 38mm dial diameters are available



unit: mm

Vertical						Dimensions						
Code No.	Range	Resolution	Dial Reading	Accuracy	Note	A	B	C	D	E	F	G
Ø30mm/Ø1.18" Dia.												
503-06-1	.060"	.001"	0-15-0	±.0012"	Horizontal	3.583"	2.520"	1.181"	1.417"	.776"	.484"	-
503-56-1	.060"	.0005"	0-15-0	±.0012"	Horizontal	3.583"	2.520"	1.181"	1.417"	.776"	.484"	-
503-06-3	.060"	.001"	0-15-0	±.0012"	Vertical	2.598"	2.264"	1.181"	.472"	.335"	.787"	.484"
503-56-3	.060"	.0005"	0-15-0	±.0012"	Vertical	2.599"	2.264"	1.181"	.472"	.335"	.787"	.484"
Ø38mm/Ø1.50" Dia.												
504-56-1	.060"	.0005"	0-15-0	±.0012"	Horizontal	3.583"	2.520"	1.500"	1.417"	.776"	.484"	-
504-56-3	.060"	.0005"	0-15-0	±.0012"	Vertical	2.599"	2.264"	1.500"	.472"	.335"	.787"	.484"

Horizontal						Dimensions						
Code No.	Range	Resolution	Dial Reading	Accuracy	Note	A	B	C	D	E	F	G
Ø30mm/Ø1.18" Dia.												
503-56-0	1.6mm	0.01mm	0-40-0	0.02mm	Horizontal	91mm	64mm	30mm	36mm	19.7mm	12.3mm	
503-56-2	1.6mm	0.01mm	0-40-0	0.02mm	Vertical	66mm	57.5mm	30mm	12mm	8.5mm	20mm	12.3mm
Ø38mm/Ø1.50" Dia.												
504-56-0	1.6mm	0.01mm	0-40-0	0.02mm	Horizontal	91mm	64mm	38mm	36mm	19.7mm	12.3mm	
504-56-2	1.6mm	0.01mm	0-40-0	0.02mm	Vertical	66mm	57.5mm	38mm	12mm	8.5mm	20mm	12.3mm



Extended Range Dial Test Indicator Sets

504 Series

SET#1



504-81-1

FEATURES

- Double the range of the most of indicators
- Jeweled movement and easy to read dial
- Range: 0 - .060"
- Two dovetail stems and 3 contact points included:
Stems: 3/8" & 5/32",
Points: .04" (hardened steel), .08",
.12" (tungsten carbide) x 5/8" long

Set				
Code No.	Range	Graduation	Dial Dia.	Accuracy
504-81-0	1.6mm	0.01mm	30mm	0.02mm
504-81-1	.060"	.0005"	1.5"	±0.0012"
504-81-3	.060"	.0005"	1.0"	±0.0012"
504-81-5	.060"	.001"	1.0"	±0.0012"

SET#2



504-82-1

FEATURES

- Double the range of the most of indicators
- Jeweled movement and easy to read dial
- Supplied with Xtra-Mag magnetic base
- Range: 0 - .060", Graduation: .0005"
- Dial Reading 0-15-0, Dial Dia.: 1-5/16"
- 5/32" Stem, dovetail on front and back

Set				
Code No.	Range	Graduation	Dial Dia.	Accuracy
504-82-0	1.6mm	0.01mm	38mm	0.02mm
504-82-1	.060"	.0005"	1.5"	±0.0012"



Dovetail Stem Sets

500 Series



500-31-0

Dovetail Stem Sets	
Code No.	Size
500-31-1	3/8"
500-31-3	5/32"
500-31-0	8mm
500-31-2	6mm
500-31-5	4mm

Optional Accessories For ASIMETO Test Indicators

500 Series

Contact Points



500-75-1

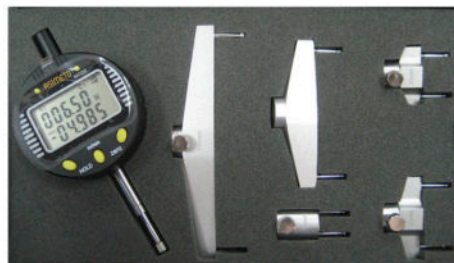


Steel	Carbide	Ruby			
Code No.	Code No.	Code No.	Indicator Range	Tip Dia.	Length
500-76-1	500-76-2	500-76-3	0.2mm/0.002mm	Ø2mm	12.8mm
500-77-1	500-77-2	-		Ø3mm	12.8mm
500-55-1	-	-	0.5mm/0.01mm	Ø1mm	14.4mm
500-52-1	500-52-2	500-52-3		Ø2mm	14.4mm
500-57-1	500-57-2	-		Ø3mm	14.4mm
500-55-1	-	-	0.8mm/0.01mm	Ø1mm	14.4mm
500-52-1	500-52-2	500-52-3		Ø2mm	14.4mm
500-57-1	500-57-2	-		Ø3mm	14.4mm
500-12-1	500-12-2	500-12-3	1.0mm/0.01mm	Ø2mm	18.8mm
500-13-1	500-13-2	-		Ø3mm	18.8mm
500-85-1	-	-	1.6mm/0.01mm	Ø1mm	18.8mm
500-88-1	500-88-2	500-88-3		Ø2mm	18.8mm
500-89-1	500-89-2	-		Ø3mm	18.8mm
500-76-1	500-76-2	500-76-3	.008"/.0001"	Ø2mm	12.8mm
500-77-1	500-77-2	-		Ø3mm	12.8mm
500-61-1	-	-	.03"/.0005"	Ø1mm	13.5mm
500-62-1	500-62-2	500-62-3		Ø2mm	13.5mm
500-63-1	500-63-2	-		Ø3mm	13.5mm
500-81-1	-	-	.06"/.001"/.06"/.0005"	Ø1mm	18.0mm
500-86-1	500-86-2	500-86-3		Ø2mm	18.0mm
500-83-1	500-83-2	-		Ø3mm	18.0mm



Digital Radius Gauges

495 Series



495-17-0

FEATURES

- Resolution: .0002"/0.005mm
- Inch/Metric conversion
- With 5 Bases: 10mm, 20mm, 30mm, 60mm, 100mm



Code No.	Range	Indicator	Accuracy
495-17-0	R5-999.99mm	0-12.5mm/0.005mm	0.5mm

Centering Indicators

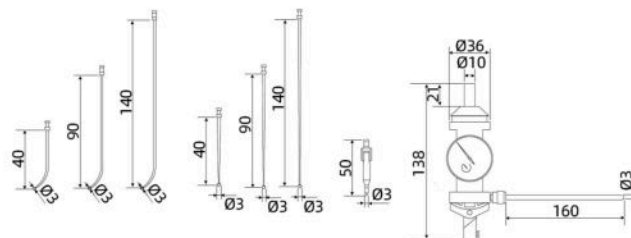
469 Series



469-00-6

FEATURES

- Graduation: .0005"/0.01mm
- Provides a simplified method of centering a work piece or fixture on horizontal for vertical machines, internal or external diameters. Face of indicator remains stationary in any desired position while the machine spindle rotates, leaving the operator with both hands free to accurately position the machine table
- Shank Dia.: Ø3/8" / Ø10mm
- Operating speed not to exceed 800 RPM
- Range:
Internal: 5/32" - 12"/4 - 300mm
External: up to 12"/300mm



Inch Set		
Code No.	Dial Range	Accuracy
469-00-8	0-.15"	±.0002"

Metric Set		
Code No.	Dial Range	Accuracy
469-00-6	0-3mm	0.005mm

Parts			
Code No.	Description	Length	Capacity
469-01-1	6 pcs Feeler Set	-	-
469-01-2	ID Feeler	2"/50mm	4"/100mm
469-01-3	ID Feeler	4"/100mm	8"/200mm
469-01-4	ID Feeler	6"/150mm	12"/300mm
469-01-5	OD Feeler	2"/50mm	4"/100mm
469-01-6	OD Feeler	4"/100mm	8"/200mm
469-01-7	OD Feeler	6"/150mm	12"/300mm
469-01-8	Center Locating Feeler	-	-
469-01-9	Feeling Rod	-	-



Axial Support Bracket

500 Series



500-26-0

FEATURES

- Used for mounting Indicators with dovetails or rods
- 3/8" diameter body for secure clamping, with 5-1/2" overall reach
- Bends in many directions

Code No.	Shank Dia.	Overall Length
500-26-0	3/8"	51/4"

Surface Gauges

500 Series



500-28-4

500-29-0

FEATURES

- Base hardened
- Bottom grooved for cylindrical work
- Front end recessed for depressing spindle below base level
- Knurled thumb screw in rocker for extra fine adjustment
- Includes scriber

Code No.	Pole Dia	Pole Length	Base Dimensions (L x W x H)
500-28-4	Ø0.4"	7"	3-5/16" x 2-9/16" x 1-1/16"
500-29-4	Ø0.4"	12"	3-5/16" x 2-9/16" x 1-1/16"



Optional Accessories For ASIMETO Test Indicators

500 Series

Swivel Clamps



500-25-1

Code No.	Description
500-25-1	For 3/8" & 5/32"Dia. Dovetail Stem
500-25-2	For 8mm & 6mm Dia. Dovetail Stem
500-25-3	For 8mm & 4mm Dia. Dovetail Stem

Holding Bars



500-21-1



500-21-0

Code No.	Size
500-21-1	.25 x .5", Length: 2"
500-21-3	.25 x .5", Length: 4"
500-21-0	9 x 9mm, Length: 50mm
500-21-2	9 x 9mm, Length: 100mm
500-21-4	10 x 12mm, Length: 50mm
500-21-6	10 x 12mm, Length: 100mm

Centering Holders



500-35-0

FEATURES

- Allows large diameter cylinders or holes to be centered

Code No.	Description
500-35-0	8mm Dia. Stem
500-35-1	.25" Dia. Stem



High-Precision Digital Height Gauges

671/672 Series



671-01-0

FEATURES

- Reading: 0.1μm/1μm switchable
- Inch/Metric conversion
- Support data transmission
- Power supply:
Input: AC 100~240V 50~60Hz
Output: DC 5V/2A



Code No.	Range	Base	Pillar	Resolution	Repeatability	Accuracy	Measuring Force
671-01-0	0-50mm	130 x 130mm Ceramic	Ø35 x 320 mm	0.1μm/1μm	≤ 0.2μm	≤ 1μm	0.8-1.2N
671-01-2	0-50mm	250 x 200mm Granite	Ø35 x 320 mm	0.1μm/1μm	≤ 0.2μm	≤ 1μm	0.8-1.2N
671-02-0	0-100mm	130 x 130mm Ceramic	Ø35 x 320 mm	0.1μm/1μm	≤ 0.2μm	≤ 2μm	0.8-1.2N
671-02-2	0-100mm	400 x 300mm Granite	Ø35 x 320 mm	0.1μm/1μm	≤ 0.2μm	≤ 2μm	0.8-1.2N



672-01-0

FEATURES

- Reading: 0.1μm/1μm switchable
- Inch/Metric conversion
- Support bluetooth data transmission
- Built-in lithium battery



Code No.	Range	Base	Pillar	Resolution	Repeatability	Accuracy	Measuring Force
672-01-0	0-50mm	130 x 130mm Ceramic	Ø35 x 320 mm	0.1μm/1μm	≤ 0.2μm	≤ 1μm	0.8-1.2N
672-01-2	0-50mm	250 x 200mm Granite	Ø35 x 320 mm	0.1μm/1μm	≤ 0.2μm	≤ 1μm	0.8-1.2N
672-02-0	0-100mm	130 x 130mm Ceramic	Ø35 x 320 mm	0.1μm/1μm	≤ 0.2μm	≤ 2μm	0.8-1.2N
672-02-2	0-100mm	400 x 300mm Granite	Ø35 x 320 mm	0.1μm/1μm	≤ 0.2μm	≤ 2μm	0.8-1.2N



High-Precision Digital Height Gauges

671/672 Series



671-10-0

FEATURES

- Reading: 0.5μm/1μm switchable
- Inch/Metric conversion
- Support data transmission
- Power supply:
Input: AC 100~240V 50~60Hz
Output: DC 5V/2A



Code No.	Range	Base	Pillar	Resolution	Repeatability	Accuracy	Measuring Force
671-10-0	0-50mm	130 x 130mm Ceramic	Ø35 x 320 mm	0.5μm/1μm	≤ 0.5μm	≤ 1.5μm	0.8-1.2N
671-10-2	0-50mm	250 x 200mm Granite	Ø35 x 320 mm	0.5μm/1μm	≤ 0.5μm	≤ 1.5μm	0.8-1.2N
671-12-0	0-100mm	130 x 130mm Ceramic	Ø35 x 320 mm	0.5μm/1μm	≤ 0.5μm	≤ 3μm	0.8-1.2N
671-12-2	0-100mm	400 x 300mm Granite	Ø35 x 320 mm	0.5μm/1μm	≤ 0.5μm	≤ 3μm	0.8-1.2N



672-10-0

FEATURES

- Reading: 0.5μm/1μm switchable
- Inch/Metric conversion
- Support bluetooth data transmission
- Built-in lithium battery



Code No.	Range	Base	Pillar	Resolution	Repeatability	Accuracy	Measuring Force
672-10-0	0-50mm	130 x 130mm Ceramic	Ø35 x 320 mm	0.5μm/1μm	≤ 0.5μm	≤ 1.5μm	0.8-1.2N
672-10-2	0-50mm	250 x 200mm Granite	Ø35 x 320 mm	0.5μm/1μm	≤ 0.5μm	≤ 1.5μm	0.8-1.2N
672-12-0	0-100mm	130 x 130mm Ceramic	Ø35 x 320 mm	0.5μm/1μm	≤ 0.5μm	≤ 3μm	0.8-1.2N
672-12-2	0-100mm	400 x 300mm Granite	Ø35 x 320 mm	0.5μm/1μm	≤ 0.5μm	≤ 3μm	0.8-1.2N



High-Precision Digital Height Gauges

671/672 Series



671-20-0

FEATURES

- Reading: 1μm
- Inch/Metric conversion
- Support data transmission
- Power supply:
Input: AC 100~240V 50~60Hz
Output: DC 5V/2A



Code No.	Range	Base	Pillar	Resolution	Repeatability	Accuracy	Measuring Force
671-20-0	0-50mm	130 x 130mm Ceramic	Ø35 x 320 mm	1μm	≤ 1μm	≤ 2μm	0.8-1.2N
671-20-1	0-50mm	250x 200mm Granite	Ø35 x 320 mm	1μm	≤ 1μm	≤ 2μm	0.8-1.2N
671-20-2	0-50mm	400 x 300mm Granite	Ø35 x 320 mm	1μm	≤ 1μm	≤ 2μm	0.8-1.2N
671-22-0	0-100mm	130 x 130mm Ceramic	Ø35 x 320 mm	1μm	≤ 1μm	≤ 4μm	0.8-1.2N
671-22-1	0-100mm	250 x 200mm Granite	Ø35 x 320 mm	1μm	≤ 1μm	≤ 1.5μm	0.8-1.2N
671-22-2	0-100mm	400 x 300mm Granite	Ø35 x 320 mm	1μm	≤ 1μm	≤ 4μm	0.8-1.2N



672-20-0

FEATURES

- Reading: 1μm
- Inch/Metric conversion
- Support bluetooth data transmission
- Built-in lithium battery



Code No.	Range	Base	Pillar	Resolution	Repeatability	Accuracy	Measuring Force
672-20-0	0-50mm	130 x 130mm Ceramic	Ø35 x 320 mm	1μm	≤ 1μm	≤ 2μm	0.8-1.2N
672-20-1	0-50mm	250 x 200mm Granite	Ø35 x 320 mm	1μm	≤ 1μm	≤ 2μm	0.8-1.2N
672-20-2	0-50mm	400 x 300mm Granite	Ø35 x 320 mm	1μm	≤ 1μm	≤ 2μm	0.8-1.2N
672-22-0	0-100mm	130 x 130mm Ceramic	Ø35 x 320 mm	1μm	≤ 1μm	≤ 4μm	0.8-1.2N
672-22-1	0-100mm	250 x 200mm Granite	Ø35 x 320 mm	1μm	≤ 1μm	≤ 1.5μm	0.8-1.2N
672-22-2	0-100mm	400 x 300mm Granite	Ø35 x 320 mm	1μm	≤ 1μm	≤ 4μm	0.8-1.2N



Dial Gauge Stands

670 Series

FEATURES

- Both column and metal stage are hardened and precision lapped
- With Ø8mm H7 clamping hole

Smooth Column

Code No.	Size	Flatness	Pillar
670-02-0	Ø60mm	≤ 0.002mm	Ø25 x 180mm



670-02-0

FEATURES

- Both column and metal stage are hardened and precision lapped
- With Ø8mm H7 clamping hole

Smooth Column

Code No.	Size	Flatness	Pillar
670-03-0	80 x 80mm	≤ 0.002mm	Ø25 x 180mm



670-03-0

FEATURES

- Both column and metal stage are hardened and precision lapped
- With Ø8mm H7 clamping hole
- With fine adjustment

Smooth Column

Code No.	Size	Flatness	Pillar
670-04-0	80 x 80mm	≤ 0.002mm	Ø25 x 180mm



670-04-0



Dial Gauge Stands

670 Series



670-05-0



670-06-0

FEATURES

- Both column and metal stage are hardened and precision lapped
- With Ø8mm H7 clamping hole

Smooth Column

Code No.	Size	Flatness	Pillar
670-05-0	80 x 80mm	≤ 0.0015mm	Ø25 x 180mm
670-06-0	Ø60mm	≤ 0.0015mm	Ø25 x 180mm

Precision Granite Stands

670 Series



670-32-0



670-22-0

FEATURES

- With adjustable arm
- Granite measuring surface and base
- With Ø8mm H7 clamping hole

Smooth Column

Code No.	Size	Flatness	Pillar
670-13-0	150 x 100 x 40mm	0.002mm	Ø25 x 180mm
670-14-0	150 x 100 x 40mm	0.002mm	Ø25 x 180mm
670-32-0	210 x 150 x 50mm	0.002mm	Ø30 x 300mm
670-33-0	300 x 200 x 60mm	0.002mm	Ø30 x 300mm

Screw Column

Code No.	Size	Flatness	Pillar
670-22-0	200 x 150 x 50mm	0.002mm	Ø30 x 300mm
670-23-0	300 x 200 x 50mm	0.002mm	Ø30 x 300mm

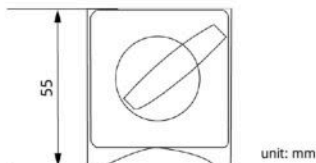


Permanent Magnetic Bases

600 Series



600-01-1



unit: mm

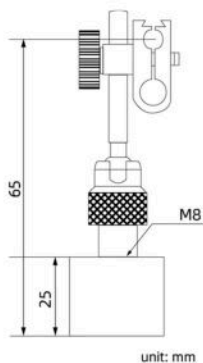
Dimensions			
Code No.	Magnetic Power	Thread Size	
600-01-0AM	30kgf	M6	35 x 30 x 35mm (Metal Switch)
600-01-1	60kgf	M8	60 x 50 x 55mm
600-01-2	80kgf	M8	60 x 50 x 55mm (Metal Switch)
600-01-3	100kgf	M8	73 x 50 x 55mm (Metal Switch)

Permanent Magnetic Bases

601 Series



601-12-0



unit: mm

FEATURES

- With permanent magnetic base, without on/off switch
- Dovetail groove included

Dimensions					
Code No.	Magnetic Power	Main Body	Arm	Dia. Of Hole	
				Hole	Slot
601-12-0	17 kgf	Ø30 x 25mm	65mm	360mm	6mm

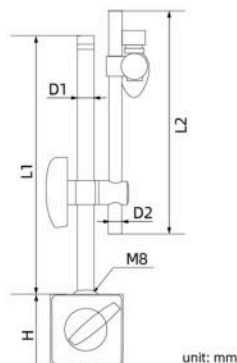


Magnetic Bases

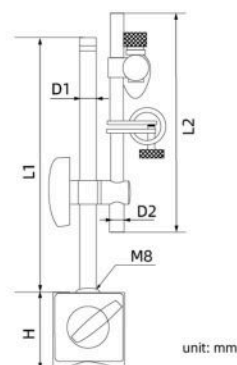
601 Series



601-01-1



601-02-1



FEATURES

- Accepts test indicators with dovetail clamping mechanism
- Dial gauges can be held by the 3/8" or 8mm diameter stem or by the lug backing plate
- The rotary knob switches magnet on or off
- The precision surfaces and the bottom V are securely fastened to the ferrous work piece or machine table when the rotary knob is in the on position
- #601-02-0/1 with fine adjustment

Inch		Dimensions						
Code No.	Magnetic Power	Magnetic Base (L X W X H)	Main Stem D1	L1	Sub Pole D2	L2	Dia. Of Hole	Remark
601-01-1	80 kgf	60 x 50 x 55mm	Ø12mm	176mm	Ø10mm	165mm	Ø3/8"/Ø8mm	-
601-02-1	80 kgf	60 x 50 x 55mm	Ø12mm	176mm	Ø10mm	150mm	Ø3/8"/Ø8mm	Fine Adjustment
601-03-1	100 kgf	73 x 50 x 55mm	Ø12mm	176mm	Ø10mm	165mm	Ø3/8"/Ø8mm	Metal Switch
601-04-1	100 kgf	73 x 50 x 55mm	Ø16mm	225mm	Ø12mm	200mm	Ø3/8"/Ø8mm	Fine Adjustment
601-05-1	100 kgf	73 x 50 x 55mm	Ø20mm	355mm	Ø12mm	200mm	Ø3/8"/Ø8mm	Fine Adjustment

Metric		Dimensions						
Code No.	Magnetic Power	Magnetic Base (L X W X H)	Main Stem D1	L1	Sub Pole D2	L2	Dia. Of Hole	Remark
601-01-0	80 kgf	60 x 50 x 55mm	Ø12mm	176mm	Ø10mm	165mm	Ø8mm	-
601-02-0	80 kgf	60 x 50 x 55mm	Ø12mm	176mm	Ø10mm	150mm	Ø8mm	Fine Adjustment
601-03-0	100 kgf	73 x 50 x 55mm	Ø12mm	176mm	Ø10mm	165mm	Ø8mm	Metal Switch

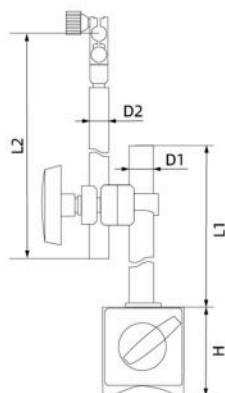


Forced Locking Magnetic Bases

604 Series



604-02-0



unit: mm

FEATURES

- Accepts test indicators with dovetail clamping mechanism
- Dial gauges can be held by the 3/8" or 8mm diameter stem or by the lug backing plate
- New design, holding more solid and reliable, more stable performance, higher accuracy
- The rotary knob switches natural magnet on or off
- The precision surfaces and the bottom V are securely fastened to the ferrous work piece or machine table when the rotary knob is in the on position

Dimensions								
Code No.	Magnetic Power	Magnetic Base (L X W X H)	Main Stem D1	L1	Sub Pole D2	L2	Dia. Of Hole	Remark
604-01-0	80 kgf	60 x 50 x 55mm	Ø12mm	180mm	Ø10mm	160mm	Ø3/8" / Ø8mm	Fine Adjustment
604-02-0	80 kgf	60 x 50 x 55mm	Ø14mm	203mm	Ø12mm	165mm	Ø3/8" / Ø8mm	Fine Adjustment
604-03-0	100 kgf	73 x 50 x 55mm	Ø16mm	250mm	Ø16mm	200mm	Ø3/8" / Ø8mm	Fine Adjustment
604-04-0	100 kgf	73 x 50 x 55mm	Ø18mm	350mm	Ø16mm	200mm	Ø3/8" / Ø8mm	Fine Adjustment

Flexible Arm Magnetic Bases

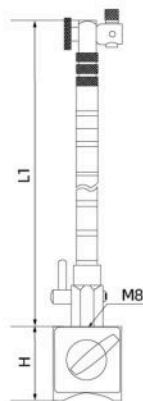
601 Series



601-11-0



601-11-2



unit: mm

FEATURES

- Accepts test indicators with dovetail clamping mechanism
- Dial gauges can be held by the 3/8" or 8mm diameter stem or by the lug backing plate
- The rotary knob switches natural magnet on or off

Dimensions				
Code No.	Magnetic Power	Magnetic Base (L X W X H)	Main Stem Length L1	Dia. Of Hole
601-11-0	80 kgf	60 x 50 x 55mm	330mm	Ø8mm
601-11-1	80 kgf	60 x 50 x 55mm	330mm	Ø3/8"
601-11-2	80 kgf	60 x 50 x 55mm	340mm	Ø3/8"

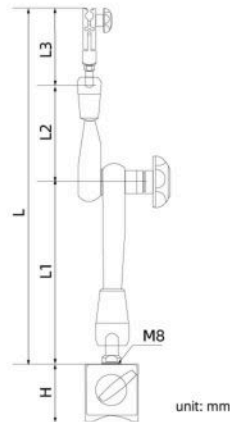


Articulating Arm Magnetic Bases

602 Series



602-02-1



unit: mm

FEATURES

- Accepts test indicators with dovetail clamping mechanism
- Dial gauges can be held by the 3/8" or 8mm diameter stem or by the lug backing plate
- Arm has 3 articulating joints that can be locked with the single hand knob
- The rotary knob switches natural magnet on or off
- The precision surfaces and the bottom V are securely fastened to the ferrous work piece or machine table when the rotary knob is in the on position

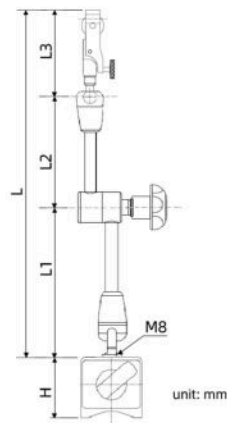
Dimensions								
Code No.	Magnetic Power	Magnetic Base (L X W X H)	Arm L1	L2	L3	L	Dia. Of Hole	Fine Adjustment
602-01-0	30 kgf	35 x 30 x 35mm	75mm	51mm	31mm	157mm	Ø3/8"/Ø8mm	Without
602-01-1	30 kgf	35 x 30 x 35mm	75mm	51mm	79mm	205mm	Ø3/8"/Ø8mm	With
602-02-1	80 kgf	60 x 50 x 55mm	124mm	101mm	85mm	310mm	Ø3/8"/Ø8mm	With
602-03-1	80 kgf	60 x 50 x 55mm	170mm	130mm	85mm	385mm	Ø3/8"/Ø8mm	With
602-04-1	80 kgf	60 x 50 x 55 mm	145mm	93mm	87mm	325mm	Ø3/8"/Ø8mm	With
602-05-1	130 kgf	117 x 50 x 55mm	325mm	225mm	85mm	635mm	Ø3/8"/Ø8mm	With

Articulating Arm Magnetic Bases

602 Series



602-04-3



unit: mm

FEATURES

- Accepts test indicators with dovetail clamping mechanism
- Dial gauges can be held by the 3/8" or 8mm diameter stem or by the lug backing plate
- Arm has 3 articulating joints that can be locked with the single hand knob
- The rotary knob switches natural magnet on or off
- The precision surfaces and the bottom V are securely fastened to the ferrous work piece or machine table when the rotary knob is in the on position

Dimensions								
Code No.	Magnetic Power	Magnetic Base (L x W x H)	Arm L1	L2	L3	L	Dia. Of Hole	Fine Adjustment
602-01-3	50 kgf	40 x 40 x 40 mm	57mm	48mm	87mm	192mm	Ø3/8"/Ø8mm	With
602-02-3	80 kgf	60 x 50 x 55 mm	102mm	73mm	87mm	262mm	Ø3/8"/Ø8mm	With
602-03-3	80 kgf	60 x 50 x 55 mm	162mm	103mm	87mm	354mm	Ø3/8"/Ø8mm	With
602-04-3	100 kgf	73 x 50 x 55 mm	212mm	174mm	87mm	472mm	Ø3/8"/Ø8mm	With



Universal Forced Locking Arm Magnetic Bases

602 Series



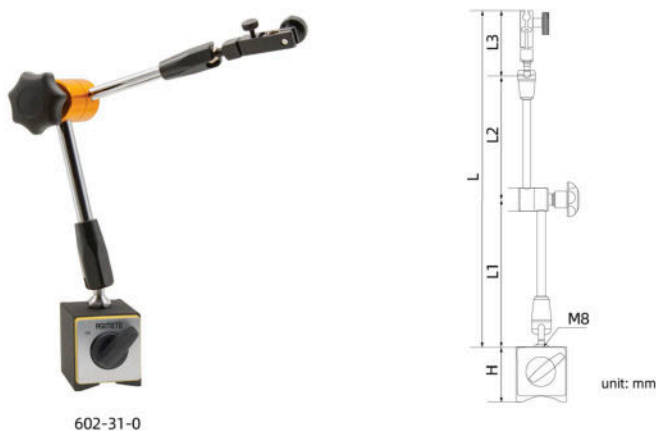
FEATURES

- New locking mechanical, super strong force arm lock.
- All wear parts use hardened high class steel for a longtime of useage, hardness reach to HRC 58° +

Dimensions								
Code No.	Magnetic Power	Magnetic Base (L x W x H)	Arm				Dia. Of Hole	Fine Adjustment
			L1	L2	L3	L		
602-06-1	50 kgf	40 x 40 x 40 mm	81mm	52mm	87mm	220mm	Ø3/8"/Ø8mm	With
602-07-1	80 kgf	60 x 50 x 55 mm	127mm	82mm	87mm	295mm	Ø3/8"/Ø8mm	With
602-08-1	100 kgf	73 x 50 x 55 mm	173mm	95mm	87mm	355mm	Ø3/8"/Ø8mm	With
602-09-1	100 kgf	73 x 50 x 55 mm	203mm	125mm	87mm	415mm	Ø3/8"/Ø8mm	With

Articulating Arm Magnetic Bases

602 Series



FEATURES

- Accepts test indicators with dovetail clamping mechanism
- Dial gauges can be held by the 3/8" or 8mm diameter stem or by the lug backing plate
- The rotary knob switches magnet on or off
- The precision surfaces and the bottom V are securely fastened to the ferrous work piece or machine table when the rotary knob is in the on position

Dimensions								
Code No.	Magnetic Power	Magnetic Base (L x W x H)	Arm				Dia. Of Hole	Fine Adjustment
			L1	L2	L3	L		
602-31-0	80 kgf	60 x 50 x 55mm	140mm	120mm	85mm	345mm	Ø3/8"/Ø8mm	With

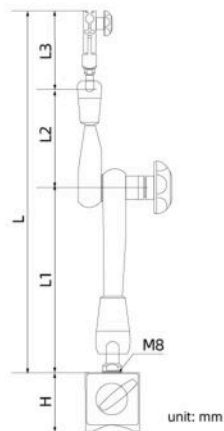


Hydraulic Magnetic Bases

603 Series



603-01-0



FEATURES

- Accepts test indicators with dovetail clamping mechanism
- Dial gauges can be held by the 3/8" or 8mm diameter stem or by the lug backing plate
- The rotary knob switches natural magnet on or off
- The precision surfaces and the bottom V are securely fastened to the ferrous work piece or machine table when the rotary knob is in the on position

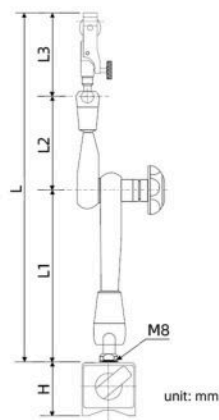
Dimensions								
Code No.	Magnetic Power	Magnetic Base (L x W x H)	Arm				Dia. Of Hole	Fine Adjustment
603-01-0	80 kgf	60 x 50 x 55mm	L1	L2	L3	L	Ø3/8"/Ø8mm	With
			139mm	116mm	85mm	340mm		

Hydraulic Central Locking Mechanism Provide Very Strong Locking Force

603 Series



603-04-1



FEATURES

- Accepts test indicators with dovetail clamping mechanism
- Dial gauges can be held by the 3/8" or 8mm diameter stem or by the lug backing plate
- The rotary knob switches natural magnet on or off
- The precision surfaces and the bottom V are securely fastened to the ferrous work piece or machine table when the rotary knob is in the on position

Dimensions								
Code No.	Magnetic Power	Magnetic Base (L x W x H)	Arm				Dia. Of Hole	Fine Adjustment
603-03-1	50 kgf	40 x 40 x 40 mm	L1	L2	L3	L	Ø3/8"/Ø8mm	With
603-04-1	80 kgf	60 x 50 x 55 mm	83mm	60mm	87mm	230mm		
603-05-1	100 kgf	73 x 50 x 55 mm	145mm	93mm	87mm	325mm	Ø3/8"/Ø8mm	With
			170mm	128mm	87mm	385mm	Ø3/8"/Ø8mm	With



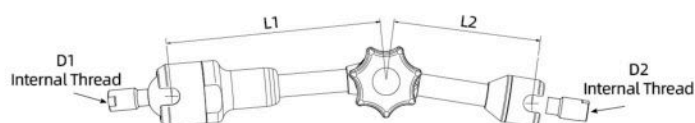
Articulated Power Arms

603 Series



FEATURES

- Combines the mechanical and hydraulic locking system together, allowing weights up to 55 lbs (25Kg)
- Central locking system with spring loaded bearings
- With longer lengths exceeding the industry's norm



Code No.	Weight		Internal Thread		Arm Length(L1)		Arm Length(L2)		Arm Length(L1+L2)		Max. Load	
	Kg	lbs	D1	D2	mm	inch	mm	inch	mm	inch	Kg	lbs
603-20-0	1.18	2.596	M8x20	M8x20	180	7.08	130	5.12	310	12.2	25	55
603-21-0	1.33	2.926	M8x20	M8x20	280	11.02	230	9.05	510	20.07	15	33
603-22-0	2.54	5.588	M8x20	M8x20	430	16.93	380	14.96	810	31.89	10	22

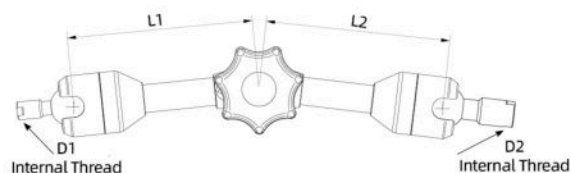
Articulated Mechanical Arms

602 Series



FEATURES

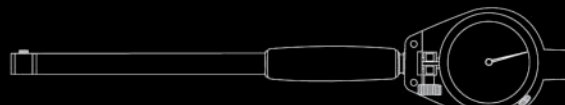
- Optimum for heavy components, measuring equipment, digital panels, lights and security cameras
- Central locking knob
- Variable friction load adjustment
- Lightweight and rugged construction
- Durable quality



Code No.	Weight		Internal Thread		Arm Length(L1)		Arm Length(L2)		Arm Length(L1+L2)		Max. Load	
	Kg	lbs	D1	D2	mm	inch	mm	inch	mm	inch	Kg	lbs
602-20-0	0.84	1.85	M8x16	M8x20	150	5.9	150	5.9	300	11.8	13	28.6
602-21-0	1.00	2.20	M8x16	M8x20	250	9.84	250	9.84	500	19.68	8	17.6
602-22-0	1.16	2.55	M8x16	M8x20	400	15.74	400	15.74	800	31.48	5	11

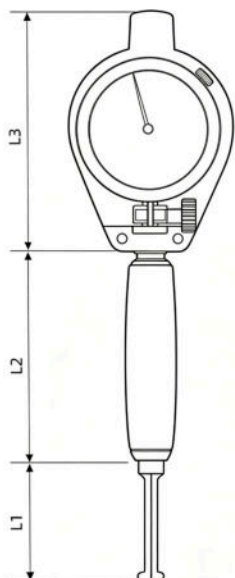
Bore Gauges

226	Dial Bore Gauges
229	Digital Bore Gauges
230	Large Diameter Dial Bore Gauges
231	Bending Dial Bore Gage
232	Large Diameter Dial Bore Gauges
232	Extension Rods
233	Accessories
234	Bore Gauge Zero Checkers
234	Telescoping Gauges



Dial Bore Gauges

483/484 Series

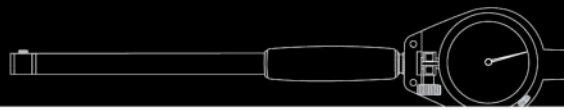


FEATURES

- Graduation: inch: .0005" , metric: 0.001mm/0.01mm
- Expanding head bore dial indicator for small sizes
- Applicable to through holes or blind holes with small aperture

Inch					Dimensions		
Code No.	Range	Graduation	Accuracy	Repeatability	L	L1	L2
484-06-1	.157-.236"	.0005"	±.0006"	±.00015"	1.500"	3.386"	3.150"

Metric					Dimensions		
Code No.	Range	Graduation	Accuracy	Repeatability	L1	L2	L3
483-06-0	4-6mm	0.001mm	±0.005mm	0.001mm	38mm	86mm	80mm
484-06-0	4-6mm	0.01mm	±0.014mm	0.003mm	38mm	86mm	68mm

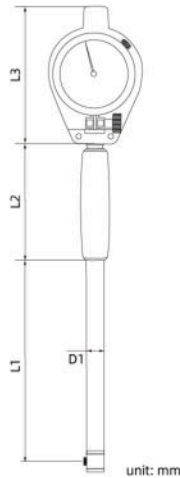


Dial Bore Gauges

483/484 Series



483-11-0



unit: mm

FEATURES

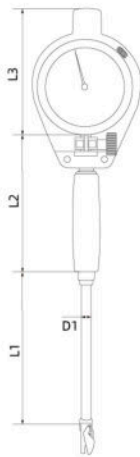
- Graduation: inch: .0001"/.0005"
metric: 0.001mm/0.01mm
- Suitable for measuring hole diameters.

Inch									Dimensions			
Code No.	Range	Graduation	Dial Travel	Accuracy	Number Of Anvils	Number Of Spacers	Number Of Sub-anvils	Probe Depth	L1	L2	L3	D1
483-11-1	.24-.4"	.0001"	.05" (AGD2)	±.0001"	9	-	-	1.57"	1.890"	3.386"	2.677"	.177"
484-11-1	.24-.4"	.0005"	.25" (AGD2)	±.0007"	9	-	-	1.57"	1.890"	3.386"	2.677"	.177"

Metric									Dimensions			
Code No.	Range	Graduation	Dial Travel	Accuracy	Number Of Anvils	Number Of Spacers	Number Of Sub-anvils	Probe Depth	L1	L2	L3	D1
483-11-0	6-10mm	0.001mm	1mm (AGD2)	0.005mm	9	-	-	40mm	48mm	86mm	68mm	4.5mm
484-11-0	6-10mm	0.01mm	3mm(AGD1)	0.015mm	9	-	-	40mm	48mm	86mm	68mm	4.5mm



484-12-0



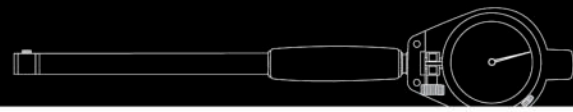
unit: mm

FEATURES

- Graduation: inch: .0001"/.0005"
metric: 0.001mm/0.01mm
- Suitable for measuring hole diameters.

Inch									Dimensions			
Code No.	Range	Graduation	Dial Travel	Accuracy	Number Of Anvils	Number Of Spacers	Number Of Sub-anvils	Probe Depth	L1	L2	L3	D1
483-12-1	.4-.7"	.0001"	.05" (AGD2)	±.0005"	9	1	-	3.937"	3.937"	3.386"	2.677"	.236"
484-12-1	.4-.7"	.0005"	.25" (AGD2)	±.0007"	9	1	-	3.937"	3.937"	3.386"	2.677"	.236"

Metric									Dimensions			
Code No.	Range	Graduation	Dial Travel	Accuracy	Number Of Anvils	Number Of Spacers	Number Of Sub-anvils	Probe Depth	L1	L2	L3	D1
483-12-0	10-18mm	0.001mm	1mm (AGD2)	0.007mm	9	1	-	100mm	96mm	86mm	68mm	6mm
484-12-0	10-18mm	0.01mm	3mm (AGD1)	0.015mm	9	1	-	100mm	96mm	86mm	68mm	6mm

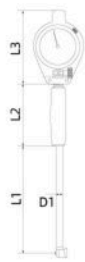


Dial Bore Gauges

483/484 Series



483-12-0



unit: mm

FEATURES

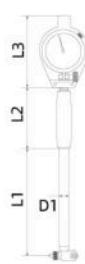
- Graduation: inch: .0001"/.0005"
metric: 0.001mm/0.01mm
- Suitable for measuring hole diameters.

Inch									Dimensions			
Code No.	Range	Graduation	Dial Travel	Accuracy	Number Of Anvils	Number Of Spacers	Number Of Sub-anvils	Probe Depth	L1	L2	L3	D1
483-21-1	.7-1.5"	.0001"	.05" (AGD2)	±.0001"	11	2	-	5.905"	5.905"	3.937"	3.150"	.354"
484-21-1	.7-1.5"	.0005"	.25" (AGD2)	±.0007"	11	2	-	5.905"	5.905"	3.937"	3.150"	.354"

Metric									Dimensions			
Code No.	Range	Graduation	Dial Travel	Accuracy	Number Of Anvils	Number Of Spacers	Number Of Sub-anvils	Probe Depth	L1	L2	L3	D1
483-21-0	18-35mm	0.001mm	1mm (AGD2)	0.007mm	9	2	-	150mm	150mm	100mm	80mm	9mm
484-21-0	18-35mm	0.01mm	3mm (AGD2)	0.020mm	9	2	-	150mm	150mm	100mm	80mm	9mm



483-22-0



unit: mm

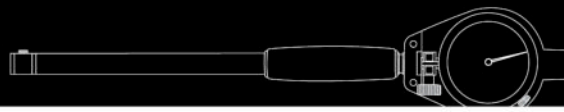
FEATURES

- Graduation: inch: .0001"/.0005"
metric: 0.001mm/0.01mm
- Suitable for measuring hole diameters.

Inch									Dimensions			
Code No.	Range	Graduation	Dial Travel	Accuracy	Number Of Anvils	Number Of Spacers	Number Of Sub-anvils	Probe Depth	L1	L2	L3	D1
483-22-1	1.4-2.4"	.0001"	.05"(AGD2)	±.0005"	6	4	-	5.905"	5.905"	3.937"	3.150"	.500"
483-31-1	2-6"	.0001"	.05"(AGD2)	±.0005"	11	4	1	5.905"	5.905"	3.937"	3.150"	.500"
483-32-1	6-10"	.0001"	.05"(AGD2)	±.0005"	6	6	1	15.748"	15.748"	3.937"	3.150"	.571"
483-33-1	10-16"	.0001"	.05"(AGD2)	±.0005"	6	6	2	15.748"	15.748"	3.937"	3.150"	.571"
484-22-1	1.4-2.4"	.0005"	.25"(AGD2)	±.0009"	6	4	-	5.905"	5.905"	3.937"	3.150"	.500"
484-31-1	2-6"	.0005"	.25"(AGD2)	±.0009"	11	4	1	5.905"	5.905"	3.937"	3.150"	.500"
484-32-1	6-10"	.0005"	.25"(AGD2)	±.0009"	6	6	1	15.748"	15.748"	3.937"	3.150"	.571"
484-33-1	10-16"	.0005"	.25"(AGD2)	±.0009"	6	6	2	15.748"	15.748"	3.937"	3.150"	.571"

Metric									Dimensions			
Code No.	Range	Graduation	Dial Travel	Accuracy	Number Of Anvils	Number Of Spacers	Number Of Sub-anvils	Probe Depth	L1	L2	L3	D1
483-22-0	35-50mm	0.001mm	1mm(AGD2)	0.007mm	4	4	-	150mm	150mm	100mm	80mm	12.8mm
483-31-0	50-160mm	0.001mm	1mm(AGD2)	0.007mm	12	4	1	150mm	150mm	100mm	80mm	12.8mm
483-32-0	160-250mm	0.001mm	1mm(AGD2)	0.007mm	5	5	1	400mm	400mm	100mm	80mm	14.5mm
483-33-0	250-400mm	0.001mm	1mm(AGD2)	0.007mm	5	5	2	400mm	400mm	100mm	80mm	14.5mm
484-22-0	35-50mm	0.01mm	3mm(AGD2)	0.020mm	4	4	-	150mm	150mm	100mm	80mm	12.8mm
484-31-0	50-160mm	0.01mm	3mm(AGD2)	0.025mm	12	4	1	150mm	150mm	100mm	80mm	12.8mm
484-32-0	160-250mm	0.01mm	3mm(AGD2)	0.025mm	5	5	1	400mm	400mm	100mm	80mm	14.5mm
484-33-0	250-400mm	0.01mm	3mm(AGD2)	0.025mm	5	5	2	400mm	400mm	100mm	80mm	14.5mm
484-34-0	400-600mm	0.01mm	3mm(AGD2)	0.025mm	5	5	2	400mm	400mm	100mm	80mm	14.5mm

Sets				
Code No.	Range	Graduation	Individual Holers	Indicator
484-63-8	18-160mm	0.01mm	18-35mm, 35-50mm, 50-160mm	402-03-2, 3mm x 0.01mm
483-63-8	18-160mm	0.001mm	18-35mm, 35-50mm, 50-160mm	402-01-2, 1mm x 0.001mm



Digital Bore Gauges

485/486 Series



485-22-0

FEATURES

- Resolution:
.00005"/0.002mm/0.001mm
- Dynamic carbide contact point
- Button function: On/Off, mm/inch, Zero, Set, ABS, Tol, Ran
- Digital gauges has analog sweep display to determine minimum reading
- .24-.4"/6-10mm range is with fixed anvils
.4-.74"/10-18mm range is with plate guide and fixed anvils
.7-1.4"/18-35mm range is with canister and fixed anvils
Over 1.4"/35mm range is with wheel guide and inserting anvils
- Optional accessory:
Cable data output: 900-20-0



Inch

Code No.	Range	Resolution	Accuracy	Number Of Anvils	Number Of Spacers	Probe Depth
485-11-1	.24-.4"	.00005"	0.012mm	9	-	1.57"
485-12-1	.4-.7"	.00005"	0.012mm	9	1	3.937"
485-21-1	.7-1.5"	.00005"	0.015mm	11	2	5.905"
485-22-1	1.4-2.4"	.00005"	0.015mm	6	4	5.905"
485-31-1	2-6"	.00005"	0.018mm	11	4	5.905"
485-32-1	6-10"	.00005"	0.018mm	6	6	15.748"
485-33-1	10-16"	.00005"	0.018mm	6	6	15.748"

Digital Indicators For Digital Bore Gauges -Inch

Code No.	Range	Resolution	Accuracy
406-95-1	.24-.4"	.00005"	±.0003"

Metric

Code No.	Range	Resolution	Accuracy	Number Of Anvils	Number Of Spacers	Probe Depth
485-11-0	6-10mm	0.002mm	0.012mm	9	-	40mm
485-12-0	10-18mm	0.002mm	0.012mm	9	1	100mm
485-21-0	18-35mm	0.002mm	0.015mm	9	2	150mm
485-22-0	35-50mm	0.002mm	0.015mm	4	4	150mm
485-31-0	50-160mm	0.002mm	0.018mm	12	4	150mm
485-32-0	160-250mm	0.002mm	0.018mm	5	5	400mm
485-33-0	250-400mm	0.002mm	0.018mm	5	5	400mm

Digital Indicators For Digital Bore Gauges -Metric

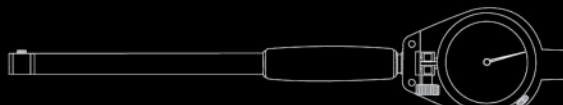
Code No.	Range	Resolution	Accuracy
406-95-0	0-6.35mm	0.002mm	0.006mm

Metric

Code No.	Range	Resolution	Accuracy	Number Of Anvils	Number Of Spacers	Probe Depth
486-11-0	6-10mm	0.001mm	0.005mm	9	-	40mm
486-12-0	10-18mm	0.001mm	0.005mm	9	1	100mm
486-21-0	18-35mm	0.001mm	0.007mm	9	2	100mm
486-22-0	35-50mm	0.001mm	0.007mm	4	4	150mm
486-31-0	50-160mm	0.001mm	0.007mm	12	4	150mm
486-32-0	160-250mm	0.001mm	0.007mm	5	5	400mm
486-33-0	250-400mm	0.001mm	0.007mm	5	5	400mm

Digital Indicators For Digital Bore Gauges -Metric

Code No.	Range	Resolution	Accuracy
406-95-4	0-6.35mm	0.001mm	0.004mm



Blind Hole Inside Diameter Gauge

482 Series

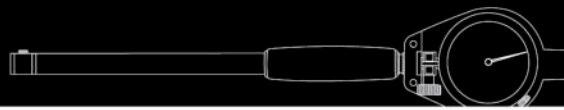


FEATURES

- Graduation: inch: .0005" , metric: 0.001mm/0.01mm
- It can penetrate deep into the interior of a blind hole to achieve stable measurement, effectively avoiding measurement obstruction and data deviation caused by the closed bottom of the blind hole.
- The tips of both the movable probe and the replaceable probe are made of cemented carbide balls, which improves wear resistance.

Inch		Dimensions					
Code No.	Range	Graduation	Accuracy	L1	L2	L3	H
482-21-3	.7-1.5"	.0005"	±.0007"	6"	4"	3.2"	.1"
482-22-3	1.4-2"	.0005"	±.0009"	6"	4"	3.2"	.1"
482-31-3	2-4.3"	.0005"	±.0009"	6"	4"	3.2"	.1"
482-32-3	4.3-12"	.0005"	±.0009"	16"	4"	3.2"	.1"
482-33-3	12-24"	.0005"	±.0009"	16"	4"	3.2"	.1"

Metric		Dimensions					
Code No.	Range	Graduation	Accuracy	L1	L2	L3	H
482-21-2	18-35mm	0.01mm	±0.015mm	150mm	100mm	80mm	2.5mm
482-22-2	35-50mm	0.01mm	±0.018mm	150mm	100mm	80mm	2.5mm
482-31-2	50-110mm	0.01mm	±0.018mm	150mm	100mm	80mm	2.5mm
482-32-2	110-300mm	0.01mm	±0.018mm	400mm	100mm	80mm	2.5mm
482-33-2	300-600mm	0.01mm	±0.018mm	400mm	100mm	80mm	2.5mm
482-21-4	18-35mm	0.001mm	±0.007mm	150mm	100mm	80mm	2.5mm
482-22-4	35-50mm	0.001mm	±0.007mm	150mm	100mm	80mm	2.5mm
482-31-4	50-110mm	0.001mm	±0.007mm	150mm	100mm	80mm	2.5mm
482-32-4	110-300mm	0.001mm	±0.007mm	400mm	100mm	80mm	2.5mm
482-33-4	300-600mm	0.001mm	±0.007mm	400mm	100mm	80mm	2.5mm



Bending Dial Bore Gage

482 Series

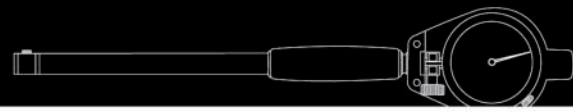


FEATURES

- Graduation: .0005" / 0.01mm
- 90° right - angled bending structure design adapts to the inspection of the internal structures of various complex pipelines.
- It has the ability to measure pipelines of multiple shapes and is specifically designed to measure complex pipelines such as L - shaped, U - shaped, and S - shaped ones.
- It provides multiple range - changeable probe heads to cover a wide range of aperture measurement requirements.

Inch		Dimensions						
Code No.	Range	Graduation	Accuracy	L	L1	L2	L3	D
482-22-1	1.5-2.4"	.0005"	±.0009"	2.950"	5.906"	3.937"	3.150"	0.504"
482-31-1	2-6"	.0005"	±.0009"	2.992"	5.906"	3.937"	3.150"	0.504"
482-32-1	6-10"	.0005"	±.0009"	3.937"	15.748"	3.937"	3.150"	0.571"
482-33-1	10-18"	.0005"	±.0009"	3.937"	15.748"	3.937"	3.150"	0.571"

Metric		Dimensions						
Code No.	Range	Graduation	Accuracy	L	L1	L2	L3	D
482-22-0	35-50mm	0.01mm	±0.018mm	75mm	150mm	100mm	80mm	12.8mm
482-31-0	50-160mm	0.01mm	±0.018mm	76mm	150mm	100mm	80mm	12.8mm
482-32-0	160-250mm	0.01mm	±0.018mm	100mm	400mm	100mm	80mm	14.5mm
482-33-0	250-450mm	0.01mm	±0.018mm	100mm	400mm	100mm	80mm	14.5mm



Large Diameter Dial Bore Gauges

484 Series



484-41-0

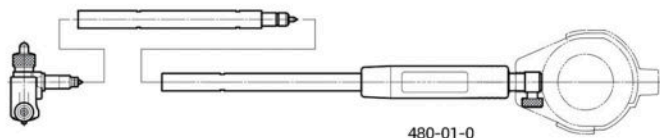
FEATURES

- Carbide tipped contact point, wheel guide
- Equip with dial indicator #402-10-2

Metric								
Code No.	Range	Graduation	Dial Travel	Travel Of Contact point	Number Of Anvils	Number Of Spacers	Number Of Sub-anvils	Probe Depth
484-41-0	18-50mm	0.01mm	10mm	1.5mm	8	2	1	150mm
484-42-0	30-100mm	0.01mm	10mm	1.8mm	5	3	2	150mm
484-43-0	50-100mm	0.01mm	10mm	4mm	10	2	-	200mm
484-44-0	100-160mm	0.01mm	10mm	4mm	7	4	-	300mm
484-45-0	100-300mm	0.01mm	10mm	3mm	6	4	2	250mm
484-46-0	160-250mm	0.01mm	10mm	4mm	5	4	2	400mm
484-47-0	250-450mm	0.01mm	10mm	6mm	5	4	2	500mm
484-48-0	450-700mm	0.01mm	10mm	8mm	5	4	4	500mm
484-49-0	700-1000mm	0.01mm	10mm	8mm	5	4	5	500mm

Extension Rods

480 Series

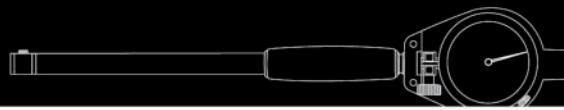


480-01-0

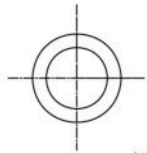
FEATURES

- After the installation can be used to measure deep hole size
- Extension rod length can be up to 40"/1000mm
- The use of single long extension rod will be better than connecting of multiple short extension rods

						Dimensions
Code No.	For Range	Code No.	For Range	Code No.	For Range	Length
480-01-0	.7"-1.5"/18-35mm	480-01-1	1.4"-2.4"/35-50mm 2"-6"/50-160mm	480-01-2	6"-10"/160-250mm 10"-16"/250-400mm	4.92"/125mm
480-02-0	.7"-1.5"/18-35mm	480-02-1	1.4"-2.4"/35-50mm 2"-6"/50-160mm	480-02-2	6"-10"/160-250mm 10"-16"/250-400mm	9.84"/250mm
480-03-0	.7"-1.5"/18-35mm	480-03-1	1.4"-2.4"/35-50mm 2"-6"/50-160mm	480-03-2	6"-10"/160-250mm 10"-16"/250-400mm	19.69"/500mm
-	-	480-04-1	1.4"-2.4"/35-50mm 2"-6"/50-160mm	480-04-2	6"-10"/160-250mm 10"-16"/250-400mm	29.53"/750mm
-	-	480-05-1	1.4"-2.4"/35-50mm 2"-6"/50-160mm	480-05-2	6"-10"/160-250mm 10"-16"/250-400mm	39.37"/1000mm



Accessories



Washers



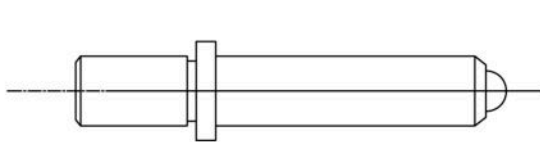
Sub-Anvils

Inch Washers And Sub-Anvils

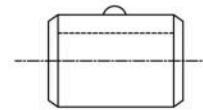
Washer Dimensions								Sub-Anvils		
Range	Washer Qty.	#1	#2	#3	#4	#5	#6	Extension Rod Qty.	#1	#2
.24-.4"										
.4-.7"	1	.02"								
.7-1.5"	2	.02"	.04"							
1.4-2.4"	4	.02"	.04"	.08"	.12"					
2-6"	4	.02"	.04"	.08"	.12"			1	2	
6-10"	6	.02"	.04"	.08"	.1"	.2"	.3"	1	2	
10-16"	6	.02"	.04"	.08"	.1"	.2"	.3"	2	2	4

Metric Washers and Sub-Anvils

Washer Dimensions							Sub-Anvils		
Range	Washer Qty.	#1	#2	#3	#4	#5	Extension Rod Qty.	#1	#2
6-10mm									
10-18mm	1	0.5mm							
18-35mm	2	0.5mm	1mm						
35-50mm	4	0.5mm	1mm	2mm	3mm				
50-160mm	4	0.5mm	1mm	2mm	3mm		1	55mm	
160-250mm	5	0.5mm	1mm	2mm	3mm	6mm	1	50mm	
250-400mm	5	0.5mm	1mm	2mm	3mm	6mm	2	50mm	100mm



Adjustment Anvils

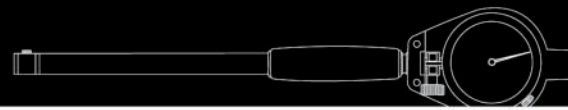


Inch Adjustment Anvils

Range		Anvils Range										
	Qty.	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11
.24-.4"	9	0.24"	0.26"	0.28"	0.3"	0.32"	0.34"	0.36"	0.38"	0.4"		
.4-.7"	9	0.4"	0.44"	0.48"	0.52"	0.58"	0.62"	0.64"	0.68"	0.7"		
.7-1.5"	11	0.7"	0.78"	0.86"	0.94"	1.02"	1.1"	1.18"	1.26"	1.34"	1.42"	
1.4-2.4"	6	1.4"	1.6"	1.8"	2"	2.2"	2.4"					
2-6"	11	2"	2.2"	2.4"	2.6"	2.8"	3"	3.2"	3.4"	3.6"	3.8"	4"
6-10"	6	6"	6.4"	6.8"	7.2"	7.6"	8"					
10-16"	6	10"	10.4"	10.8"	11.2"	11.6"	12"					

Metric Adjustment Anvils

Range		Anvils Range											
	Qty.	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12
6-10mm	9	6mm	6.5mm	7mm	7.5mm	8mm	8.5mm	9mm	9.5mm	10mm			
10-18mm	9	10mm	11mm	12mm	13mm	14mm	15mm	16mm	17mm	18mm			
18-35mm	9	18mm	20mm	22mm	24mm	26mm	28mm	30mm	32mm	34mm			
35-50mm	4	35mm	40mm	45mm	50mm								
50-160mm	12	50mm	55mm	60mm	65mm	70mm	75mm	80mm	85mm	90mm	95mm	100mm	105mm
160-250mm	5	160mm	170mm	180mm	190mm	200mm							
250-400mm	5	250mm	260mm	270mm	280mm	290mm							

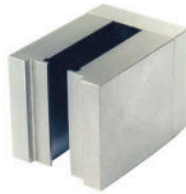


Bore Gauge Zero Checkers

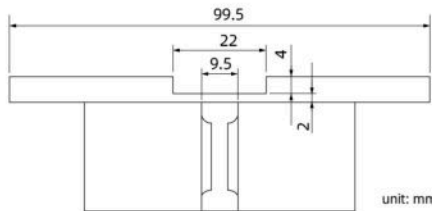
483 Series



483-00-2



483-50-0



unit: mm

FEATURES

- The Bore Gauge Zero Checker allows easy zero adjustment of dial bore gauges with ranges of 18mm (.7") through 400mm (16") using gauge blocks
- High Accuracy and stable performance
- Interchangeable Supporting Blocks is for setting of various bore gauge

Code No.	Description
483-00-2	18mm-400mm/.7"-16"
483-50-0	Interchangeable Supporting Blocks

Telescoping Gauges

487 Series



487-86-9

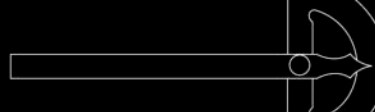
FEATURES

- Spring-loaded plunger expands within the bore (or groove), allowing determination of the internal diameter
- With a knurled clamp

Inch/Metric						
Code No.	Depth	Code No.	Depth	Range		Model
487-01-1	4.2" / 107mm	487-01-3	12" / 300mm	5/16" - 1/2"	8-12.7mm	A
487-02-1	4.4" / 112mm	487-02-3	12" / 300mm	1/2" - 3/4"	12.7-19mm	B
487-03-1	4.4" / 112mm	487-03-3	12" / 300mm	3/4" - 1 - 1/4"	19-32mm	C
487-04-1	5.85" / 150mm	487-04-3	12" / 300mm	1 - 1/4" - 2 - 1/8"	32-54mm	D
487-05-1	5.85" / 150mm	487-05-3	12" / 300mm	2 - 1/8" - 3 - 1/2"	54-90mm	E
487-06-1	5.85" / 150mm	487-06-3	12" / 300mm	3 - 1/2" - 6"	90-150mm	F
Sets						
Code No.	Inch Range		Metric Range		Qty.	
487-86-9	5/16"-6		8-150mm		6 pcs (A, B, C, D, E, F)	

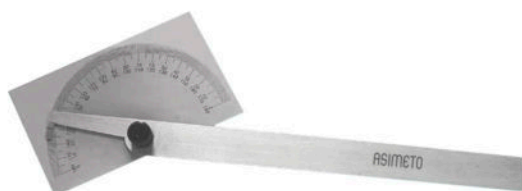
Other Gauges

236	Protractors	258	T Thread Angle Gauges
237	Universal Angle Protractors	258	Center Gauges
238	Universal Bevel Protractors	259	Angle Gauges
238	Dial Protractors	259	Angle Gauges Sets 1-45°
239	Digital Protractors	260	Welding Gauges
239	Combination Square Sets	262	Radius Gauges
240	Digital Angle Gauges	263	Thread Pitch Gauges
241	Digital Protractors	264	Feeler Gauges
242	Digital Angle Gauges	265	Taper Slot Gauge
243	Digital Levels	265	Taper Slot Gauge With Handle
243	Mini Digital Protractors	266	V Blocks
244	Digital Protractors - Level Type	266	Cast Vee Blocks
245	Optical Composite Levels	267	V Block Sets
245	Block Levels	267	4 WAY V Blocks
246	Frame Levels	268	V-Blocks With Clamps
247	Bevel Edge Squares	268	Magnetic V-Blocks
247	Flat Edge Squares	269	Magnetic Induction Blocks
248	Flat Edge Squares With Extra Base	270	Thin Type Magnetic Holders
248	Bevel Edge Squares With Wide Base	270	1-2-3 Blocks
249	Flat Edge Squares With Wide Base	271	2-3-4 Blocks
249	Point Angle Squares 45°	272	2-4-6, 4-6-8 Blocks
250	Point Angle Squares 45° With Base	272	Adjustable Parallels
250	Point Angle Squares 60°	273	Precision Parallel Sets
251	Point Angle Squares 60° With Wide Base	273	High Precision Metric Parallels
251	Hexagon Squares 120°	274	Precision Sine Vise
252	Octagon Squares 135° With Base	274	Precision Vise
252	Octagon Squares 135°	276	Spring Dividers And Calipers
253	Straight Knife Edges	276	Arched Compasses
253	Granite Squares	277	Arched Compasses With Pencil Holder
253	Adjustable Squares	277	Pointed Compasses
254	5-pcs Square Sets	278	Digital Zero Setters
254	Die Makers Square Sets	278	Zero Setters
255	Granite Straight Edges	279	Electronic Zero Setter
256	Angle Gauges	279	Electronic Edge Finders
258	Adjustable Angle Blocks		

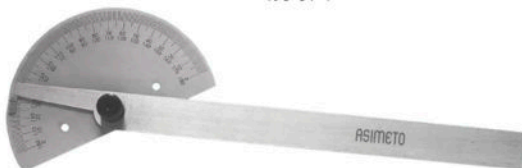


Protractors

490 Series



490-01-1



490-01-2

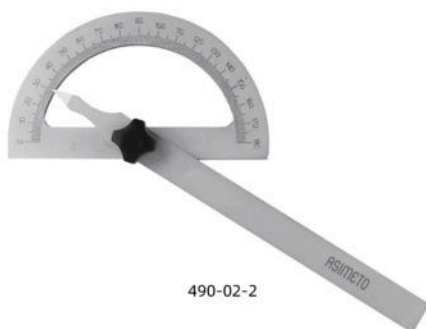
FEATURES

- Graduation: 1°
- Base and scale are stainless steel
- 150mm/6" arm, Ø85mm protractor
- Accuracy: ±5 min

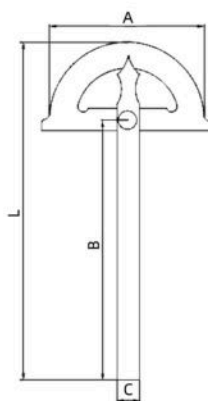
Code No.	Description
490-01-1	Protractor Resolution: 0° -90° , 90° -180° , 180° -90° , 90° -0°
490-01-2	Semi-Circle: 0° -180° , 180° -0°

Protractors 0° - 180°

490 Series



490-02-2



FEATURES

- Graduation: 1°
- Made of hardened stainless steel
- Satin chrome plated scale
- With clamping screw

Code No.	Size	Range	Accuracy	L	C
490-02-1	80 x 120mm	0-180°	±0.3°	168mm	11mm
490-02-2	120 x 150mm	0-180°	±0.3°	220mm	14mm
490-02-3	150 x 200mm	0-180°	±0.3°	285mm	16mm
490-02-4	200 x 300mm	0-180°	±0.3°	413mm	20mm
490-02-5	300 x 500mm	0-180°	±0.3°	675mm	30mm

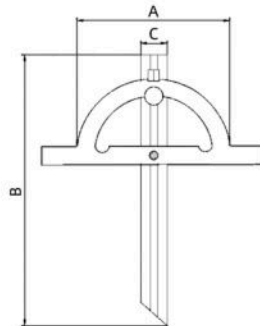


Protractors 10° - 170°

490 Series



490-03-2



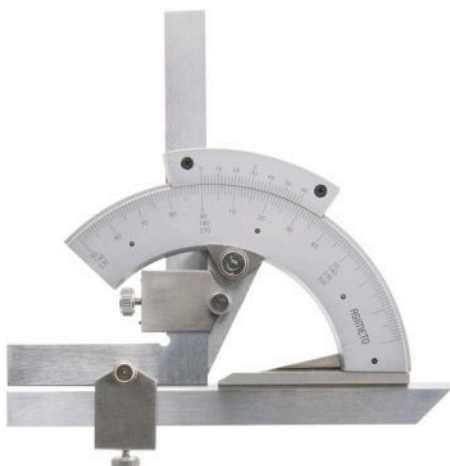
FEATURES

- Graduation: 1°
- Made of hardened stainless steel
- Satin chrome plated scale
- With clamping screw
- The blade is moveable

Code No.	Size (AxB)	Range	Accuracy	C
490-03-1	100 x 150mm	10-170°	±0.3°	18mm
490-03-2	150 x 300mm	10-170°	±0.3°	22mm
490-03-3	200 x 400mm	10-170°	±0.3°	24mm
490-03-4	250 x 500mm	10-170°	±0.3°	28mm
490-03-5	300 x 600mm	10-170°	±0.3°	32mm

Universal Angle Protractors

490 Series

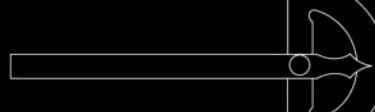


490-05-2

FEATURES

- Dial Graduation: 1° , Vernier: 5'
- Designed to provide precise angular measurements
- Can be used with a standard height gauge to provide angular measurement from reference plate
- Accuracy: ±5 min

Code No.	Description
490-05-2	With 90° Square, Ruler



Universal Bevel Protractors

490 Series



490-06-5

Code No.	Description
490-06-5	With Three Blades: 150mm/6", 200mm/8", 300mm/12"

FEATURES

- Dial Graduation: 1°, Vernier: 5'
- Designed to provide precise angular measurements
- Magnifying glass is provided for easier reading
- Can be used with a standard height gauge to provide angular measurement from reference plate
- Accuracy: ± 5 min

Dial Protractors

490 Series



490-10-2

Code No.	Description
490-10-2	With Three Blades: 150mm/6", 200mm/8", 300mm/12"

FEATURES

- Measuring Range: 0-360°, Graduation: 5'
- Designed with analog readout and fine adjustment to provide precise angular measurements
- Can be used with a standard height gauge to provide angular measurement from reference plate
- Accuracy: ± 5 min

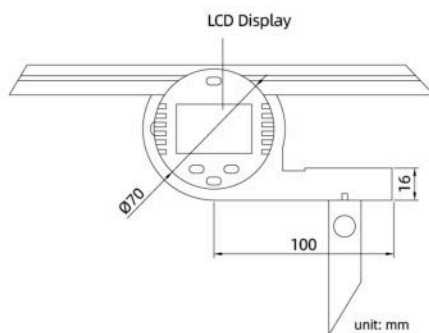


Digital Protractors

490 Series



490-15-2



FEATURES

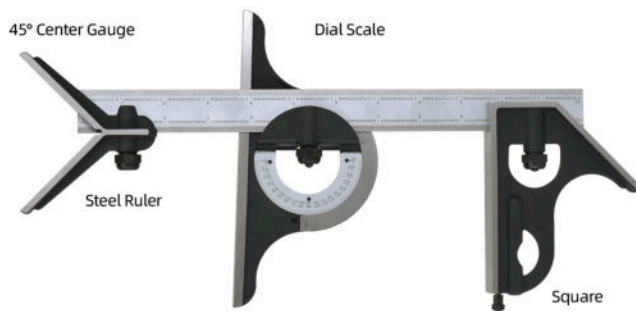
- Resolution: 10"
- Button function: On/Off, mm/inch, Zero, Set
- Measuring Range: 0-360°
- Range selection: 1 x 360°, 2 x 180°, 4 x 90°
- Dual reading LCD display arc minutes/decimal degrees
- With fine adjustment
- Preset function
- Accuracy: ± 5 min
- Optional accessory:
Cable data output: 900-20-0



Code No.	Blades Included
490-15-2	With Two Blades: 150mm/6", 300mm/12"

Combination Square Sets

490 Series

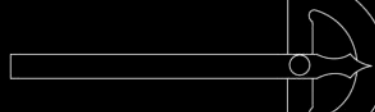


490-20-8

Code No.	Description	Blade Length
490-20-8	4 pcs Set	12"/300mm
490-21-8	4 pcs Set (With 4R Ruler)	12"/300mm
490-22-8	4 pcs Set (With 16R Ruler)	12"/300mm

FEATURES

- Center head (made of cast iron): To locate center of cylinder with diameter (d): 1.181" DIA-3.937" DIA , accuracy: $\pm .006$ "
- Protractor head (made of cast iron): set the blade at desired angle to an edge of a workpiece, and can be used to measure angles range: 0-180°, accuracy: ± 20 min.
- Square head (made of cast iron): set the blade at 90° or 45° to an edge of a workpiece, accuracy: ± 8 min for 90° square, ± 10 min for 45° square
- Blades are hardened and tempered for durability
- Square head has level and pointed attachment for hand scribing
- Micro-fine blade graduations
- Gauge heads are hardened cast finished in baked enamel with exception of the measurement faces

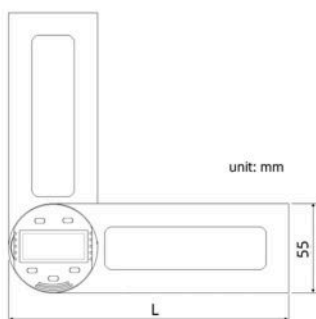


Digital Angle Gauges

490 Series



490-53-0



FEATURES

- Display locked value and complementary angle
- Button function: On/Off, Set, Hold/Rev, S/M Cut, Crown, Next/Sel
- Two modes cutting calculation
- Anodized aluminum alloy ruler body, exquisite laser engraving

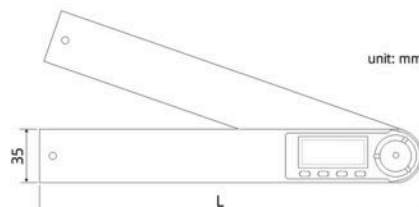
Code No.	Range	Resolution	Accuracy	L
490-53-0	0-360°	0.05°	±0.3°	177.8mm

Digital Angle Gauges

490 Series



490-54-0



FEATURES

- 0-360° Measurement range
- Button function: On/Off, Zero, Hold/Flip, Rev
- Screw lock system to secure measurement angle
- Reverse reading for any condition
- Anodized aluminum alloy ruler body, exquisite laser engraving

Code No.	Range	Resolution	Accuracy	L
490-54-0	125mm/5"	0.05°	±0.3°	166.2mm
490-54-1	175mm/7"	0.05°	±0.3°	217mm
490-54-2	254mm/10"	0.05°	±0.3°	293.2mm

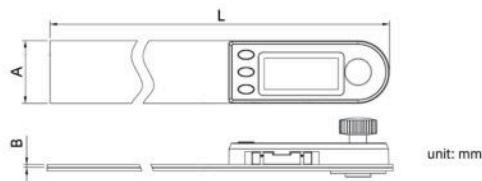


Digital Protractors

490 Series



490-52-1



FEATURES

- Measuring range 0-360°
- Button function: On/Off, Zero, Hold/Rev
- Lock screw locks the measuring angle securely in any position
- Reverse reading for any condition



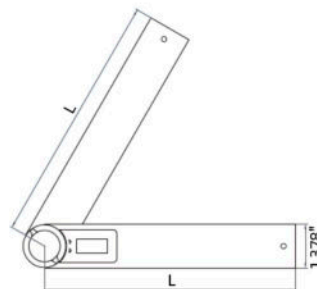
Code No.	Size	Range	Resolution	Accuracy	Dimensions		
					L	A	B
490-52-0	100mm	0-360°	0.05°	±0.3°	178mm	27.2mm	1.2mm
490-52-1	200mm	0-360°	0.05°	±0.3°	277mm	27.2mm	1.2mm
490-52-2	300mm	0-360°	0.05°	±0.3°	380mm	27.2mm	1.2mm

Digital Protractors

490 Series



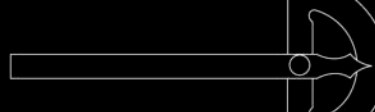
490-42-1



FEATURES

- Graduation of blade: 1mm and 1/32"
- Buttons: On/Off, Zero
- With clamping screw to lock the blades
- Made of stainless steel
- Automatic power off

Code No.	Size(L)	Range	Resolution	Accuracy
490-42-0	8"/200mm	0-360°	0.1°	±0.3°
490-42-1	12"/300mm	0-360°	0.1°	±0.3°



Digital Protractors

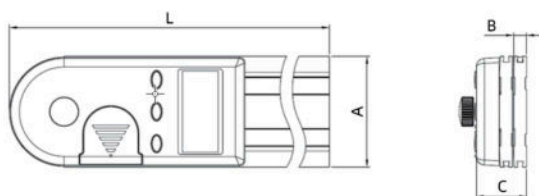
490 Series



490-51-0

FEATURES

- Measuring range 0-360°
- Button function: on/off, zero hold/rev
- Lock screw locks the measuring angle securely in any position
- Reverse reading for any condition



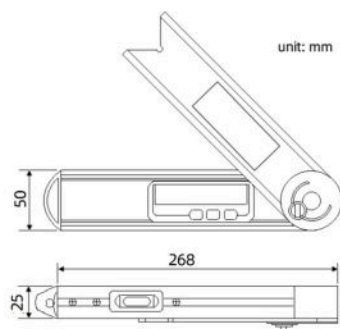
Code No.	Size	Range	Resolution	Accuracy	Dimensions			
					L	A	B	C
490-51-0	100mm	0-360°	0.05°	±0.3°	103mm	45mm	5.4mm	20.5mm
490-51-1	200mm	0-360°	0.05°	±0.3°	205mm	45mm	5.4mm	20.5mm
490-51-2	300mm	0-360°	0.05°	±0.3°	306mm	45mm	5.4mm	20.5mm

Digital Angle Gauges

490 Series



490-41-0



unit: mm

FEATURES

- Direct display angle values
- Button function: on/off, zero, hold
- Easy lock angle system
- Specific hold key to lock the data
- V-groove design

Code No.	Range	Resolution	Accuracy
490-41-0	0-360°	0.05°	±0.5°



Digital Levels

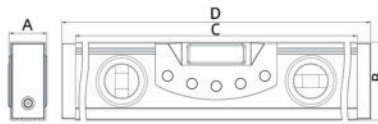
490 Series



490-50-0



490-50-1



FEATURES

- Button function: level, tilt%, hold, bevel, laser
- LCD display hold function
- Button function: On/Off, Zero, Hold
- Level measuring function
- Relative angle measuring
- Slope and angle conversion
- Even angle warning and laser optional
- Magnet on measuring face

60

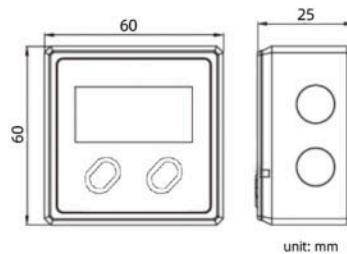
Dimensions								
Code No.	Spec	Range	Resolution	Accuracy	A mm	B mm	C mm	D mm
490-50-0	150mm	4x90°	0.05°	±0.2°	28	58	152.4	172.4
490-50-1	225mm	4x90°	0.05°	±0.2°	28	58	228.6	248.6
490-50-2	600mm	4x90°	0.05°	±0.2°	28	58	609.6	629.6

Mini Digital Protractors

490 Series



490-16-7



unit: mm

FEATURES

- Measure range is 0° - 90° - 0° - 90° - 0°, and the data is automatically inverted
- Button function: On/Off, Zero
- With backlit LED screen
- The measuring surface has a built-in magnet, which helps with fixing
- Protection level IP54

60

Code No.	Range	Resolution	Accuracy
490-16-7	4 × 90°	0.1°	±0.2°

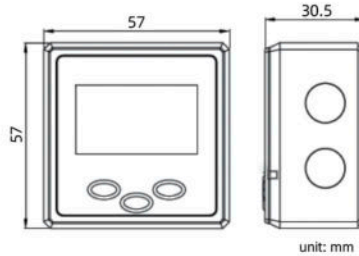


Mini Digital Protractors

490 Series



490-16-8



FEATURES

- Measure range is 0° - 90° - 0° - 90° - 0°, and the data is automatically inverted.
- Button function: On/Off, Zero, Hold
- HOLD button for freezing a reading in an unreadable position
- With backlit LED screen
- The measuring surface has a built-in magnet, which helps with fixing.



Code No.	Range	Resolution	Accuracy
490-16-8	4 × 90°	0.05°	±0.2°

Digital Protractors - Level Type

490 Series



490-16-0

FEATURES

- This protractor provides an immediate digital reading of any angle in a full circle with 0° - 90° - 0° - 90° - 0° readings.
- Aluminum frame provides rigidity and light weight with a precise platform; allows the sensor and its microprocessor circuit to provide high accuracy throughout the entire 360° range
- Button function: On/Off, Zero, Hold
- Four 90° quadrants for display purposes
- Calibrates in minutes without any special fixtures
- HOLD button for freezing a reading in an unreadable position
- ABS/ZERO button allows 2 measuring modes, Standard and Alternate Reference
- V-grooves on top and bottom for use on curved surfaces
- Angle displayed upright regardless of protractor position
- Item #490-16-2 comes with magnet on base, which is helpful for fixing



Code No.	Range	Resolution	Operating Temp. Range	Power	Accuracy	Size	Weight
490-16-0	360°	0.1°	23° F-122° F / -5° C-50° C	3V, Lithium Cell	±0.1°	152 x 63.8 x 60mm	343g
490-16-2	360°	0.1°	23° F-122° F / -5° C-50° C	3V, Lithium Cell	±0.1°	152 x 63.8 x 60mm	343g

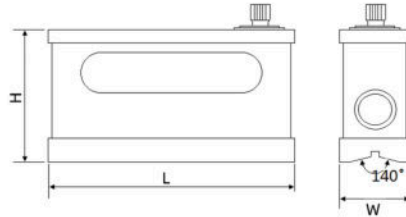


Optical Composite Levels

606 Series



606-56-0



FEATURES

- With prism help to read the data
- With fine adjustment device, easy to adjust the levels
- Maximum clarity of bubbles
- Scraped reference surface

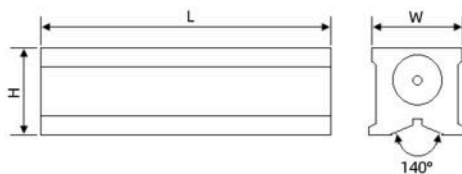
Dimension					
Code No.	Range	Sensitivity	L	W	H
606-56-0	0-10mm	0.01mm/m	165mm	47mm	85mm

Block Levels

606 Series



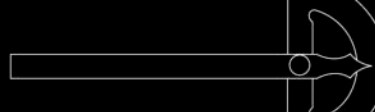
606-48-2



FEATURES

- Heat insulating top plate with glass.
- Exceptional resistance to shock.
- Flat plus vee bearing surfaces.
- Stabilized cast iron base.
- Maximum clarity of bubbles.
- Cross and main vial easily adjustable.
- Scraped reference surface

Dimension				
Code No.	Sensitivity	L	W	H
606-48-2	0.02mm/m	100mm	30mm	35mm
606-50-3	0.10mm/m	150mm	46mm	46mm
606-50-4	0.02mm/m	150mm	46mm	46mm
606-50-6	0.05mm/m	150mm	46mm	46mm
606-51-3	0.10mm/m	200mm	46mm	46mm
606-51-4	0.02mm/m	200mm	46mm	46mm
606-51-6	0.05mm/m	200mm	46mm	46mm
606-52-3	0.10mm/m	300mm	46mm	46mm
606-52-4	0.02mm/m	300mm	46mm	46mm
606-52-6	0.05mm/m	300mm	46mm	46mm

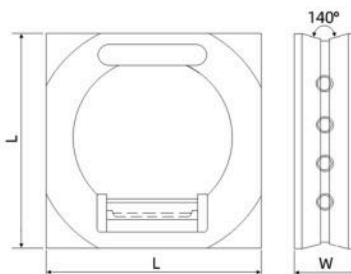


Frame Levels

606 Series



606-49-0



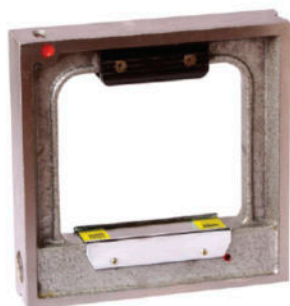
FEATURES

- Magnetic inside V-groove
- Two V-grooves for shafts
- Maximum clarity of bubbles.
- Cross and main vial easily adjustable.
- Scraped reference surface

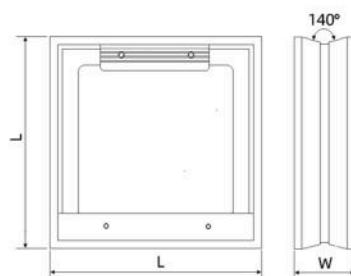
Dimension			
Code No.	Sensitivity	L x L	W
606-49-0	0.02mm/m	100mm	32mm

Block Levels

606 Series



606-49-2



FEATURES

- 2 Sides with flat bearing surfaces and 2 sides with flat and Vee bearing surfaces
- Heat insulating top plate with glass
- Maximum clarity of bubbles
- Cross and main vial easily adjustable
- Scraped reference surface

Dimension			
Code No.	Sensitivity	L x L	W
606-49-2	0.02mm/m	100mm	32mm
606-52-0	0.10mm/m	150mm	38mm
606-52-2	0.02mm/m	150mm	38mm
606-52-5	0.05mm/m	150mm	38mm
606-53-0	0.10mm/m	200mm	40mm
606-53-2	0.02mm/m	200mm	40mm
606-53-5	0.05mm/m	200mm	40mm
606-54-0	0.10mm/m	300mm	45mm
606-54-2	0.02mm/m	300mm	45mm
606-54-5	0.05mm/m	300mm	45mm

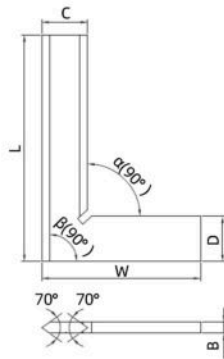


Bevel Edge Squares

639 Series



639-23-0



FEATURES

- Made of precision ground hardened Stainless Steel
- Accuracy according to DIN875

DIN 875 Grade 00				Dimensions		
Code No.	Inch Size (LxW)	Metric Size (LxW)	Angle Tolerance	C	D	B
639-21-0	2" x 1.6"	50 x 40mm	0.003mm	13mm	13mm	4mm
639-22-0	3" x 2"	75 x 50mm	0.003mm	15mm	15mm	4mm
639-23-0	4" x 2.75"	100 x 70mm	0.003mm	20mm	20mm	5mm
639-24-0	6" x 4"	150 x 100mm	0.004mm	30mm	30mm	6mm
639-25-0	8" x 5"	200 x 130mm	0.004mm	33mm	33mm	7mm
639-26-0	10" x 6.5"	250 x 165mm	0.005mm	35mm	35mm	7mm
639-27-0	12" x 8"	300 x 200mm	0.005mm	40mm	40mm	8mm

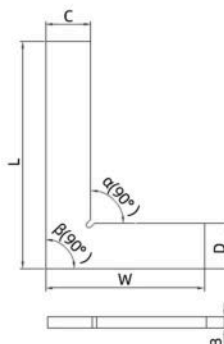
DIN 875 Grade 0				Dimensions		
Code No.	Inch Size (LxW)	Metric Size (LxW)	Angle Tolerance	C	D	B
639-21-1	2" x 1.6"	50 x 40mm	0.006mm	13mm	13mm	4mm
639-22-1	3" x 2"	75 x 50mm	0.007mm	15mm	15mm	4mm
639-23-1	4" x 2.75"	100 x 70mm	0.007mm	20mm	20mm	5mm
639-24-1	6" x 4"	150 x 100mm	0.008mm	30mm	30mm	6mm
639-25-1	8" x 5"	200 x 130mm	0.009mm	33mm	33mm	7mm
639-26-1	10" x 6.5"	250 x 165mm	0.010mm	35mm	35mm	7mm
639-27-1	12" x 8"	300 x 200mm	0.011mm	40mm	40mm	8mm

Flat Edge Squares

639 Series



639-24-4



FEATURES

- Made of precision ground hardened Stainless Steel
- Accuracy according to DIN875

DIN 875 Grade 0				Dimensions		
Code No.	Inch Size (LxW)	Metric Size (LxW)	Angle Tolerance	C	D	B
639-21-4	2" x 1.6"	50 x 40mm	0.007mm	15mm	15mm	5mm
639-22-4	3" x 2"	75 x 50mm	0.007mm	15mm	15mm	5mm
639-23-4	4" x 2.75"	100 x 70mm	0.007mm	20mm	20mm	5mm
639-24-4	6" x 4"	150 x 100mm	0.008mm	25mm	25mm	5mm
639-25-4	8" x 5"	200 x 130mm	0.009mm	30mm	30mm	6mm
639-26-4	10" x 6.5"	250 x 165mm	0.010mm	35mm	35mm	7mm
639-27-4	12" x 8"	300 x 200mm	0.011mm	40mm	40mm	8mm

DIN 875 Grade 1				Dimensions		
Code No.	Inch Size (LxW)	Metric Size (LxW)	Angle Tolerance	C	D	B
639-21-5	2" x 1.6"	50 x 40mm	0.014mm	15mm	15mm	5mm
639-22-5	3" x 2"	75 x 50mm	0.014mm	15mm	15mm	5mm
639-23-5	4" x 2.75"	100 x 70mm	0.015mm	20mm	20mm	5mm
639-24-5	6" x 4"	150 x 100mm	0.018mm	25mm	25mm	5mm
639-25-5	8" x 5"	200 x 130mm	0.020mm	30mm	30mm	6mm
639-26-5	10" x 6.5"	250 x 165mm	0.023mm	35mm	35mm	7mm
639-27-5	12" x 8"	300 x 200mm	0.025mm	40mm	40mm	8mm
639-28-5	16" x 10"	400 x 265mm	0.028mm	45mm	45mm	8mm
639-29-5	20" x 12"	500 x 330mm	0.030mm	45mm	45mm	9mm

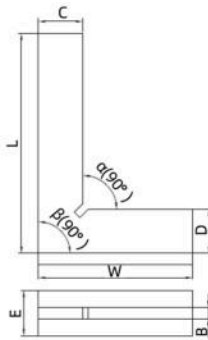


Flat Edge Squares With Extra Base

639 Series



639-55-0



FEATURES

- Made of precision ground hardened Stainless Steel
- Accuracy according to DIN875

DIN 875 Grade 0				Dimensions			
Code No.	Inch Size (LxW)	Metric Size (LxW)	Angle Tolerance	C	D	B	E
639-53-0	3" x 2"	75 x 50mm	0.007mm	15mm	15mm	5mm	15mm
639-54-0	4" x 2.75"	100 x 70mm	0.007mm	20mm	20mm	5mm	20mm
639-55-0	6" x 4"	150 x 100mm	0.008mm	25mm	25mm	5mm	25mm
639-56-0	8" x 5"	200 x 130mm	0.009mm	30mm	30mm	6mm	30mm
639-57-0	10" x 6.5"	250 x 165mm	0.010mm	35mm	35mm	7mm	35mm
639-58-0	12" x 8"	300 x 200mm	0.011mm	40mm	40mm	8mm	40mm

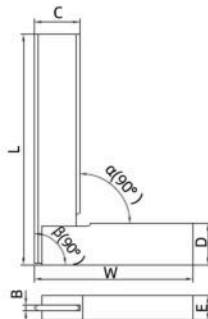
DIN 875 Grade 1				Dimensions			
Code No.	Inch Size (LxW)	Metric Size (LxW)	Angle Tolerance	C	D	B	E
639-53-1	3" x 2"	75 x 50mm	0.014mm	15mm	15mm	5mm	15mm
639-54-1	4" x 2.75"	100 x 70mm	0.015mm	20mm	20mm	5mm	20mm
639-55-1	6" x 4"	150 x 100mm	0.018mm	25mm	25mm	5mm	25mm
639-56-1	8" x 5"	200 x 130mm	0.020mm	30mm	30mm	6mm	30mm
639-57-1	10" x 6.5"	250 x 165mm	0.023mm	35mm	35mm	7mm	35mm
639-58-1	12" x 8"	300 x 200mm	0.025mm	40mm	40mm	8mm	40mm
639-59-1	16" x 10"	400 x 265mm	0.028mm	45mm	45mm	8mm	45mm
639-60-1	20" x 12"	500 x 330mm	0.030mm	45mm	45mm	9mm	45mm

Bevel Edge Squares With Wide Base

639 Series



639-33-0



FEATURES

- Made of precision ground hardened Stainless Steel
- Accuracy according to DIN875

DIN 875 Grade 00				Dimensions			
Code No.	Inch Size (LxW)	Metric Size (LxW)	Angle Tolerance	C	D	B	E
639-31-0	2" x 1.6"	50 x 40mm	0.003mm	14mm	12mm	3mm	10mm
639-32-0	3" x 2"	75 x 50mm	0.003mm	16mm	14mm	3mm	10mm
639-33-0	4" x 2.75"	100 x 70mm	0.003mm	20mm	18mm	3.5mm	12mm
639-34-0	6" x 4"	150 x 100mm	0.004mm	22mm	22mm	4mm	12mm
639-35-0	8" x 5"	200 x 130mm	0.004mm	26mm	26mm	5mm	14mm

DIN 875 Grade 0				Dimensions			
Code No.	Inch Size (LxW)	Metric Size (LxW)	Angle Tolerance	C	D	B	E
639-31-1	2" x 1.6"	50 x 40mm	0.006mm	14mm	12mm	3mm	10mm
639-32-1	3" x 2"	75 x 50mm	0.007mm	16mm	14mm	3mm	10mm
639-33-1	4" x 2.75"	100 x 70mm	0.007mm	20mm	18mm	3.5mm	12mm
639-34-1	6" x 4"	150 x 100mm	0.008mm	22mm	22mm	4mm	12mm
639-35-1	8" x 5"	200 x 130mm	0.009mm	26mm	26mm	5mm	14mm

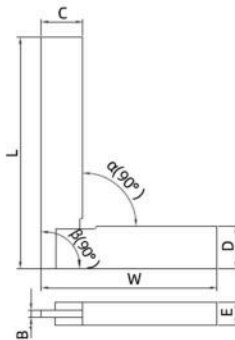


Flat Edge Squares With Wide Base

639 Series



639-33-4



FEATURES

- Made of precision ground hardened Stainless Steel
- Accuracy according to DIN875

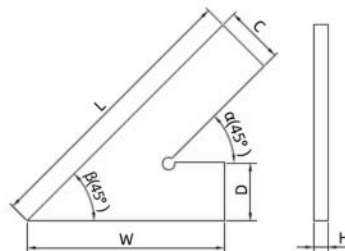
DIN 875 Grade 0				Dimensions			
Code No.	Inch Size (LxW)	Metric Size (LxW)	Angle Tolerance	C	D	B	E
639-31-4	2" x 1.6"	50 x 40mm	0.006mm	12mm	12mm	2.5mm	10mm
639-32-4	3" x 2"	75 x 50mm	0.007mm	14mm	14mm	3mm	10mm
639-33-4	4" x 2.75"	100 x 70mm	0.007mm	18mm	18mm	3mm	12mm
639-34-4	6" x 4"	150 x 100mm	0.008mm	22mm	22mm	4mm	12mm
639-35-4	8" x 5"	200 x 130mm	0.009mm	26mm	26mm	4mm	14mm

Point Angle Squares 45°

637 Series



637-01-0



FEATURES

- Made of hardened stainless steel

Dimensions						
Code No.	Size (LxW)	Accuracy		C	D	H
		Inside (α)	Outside (β)			
637-01-0	120 x 80mm	29μm	32μm	20mm	20mm	5mm
637-02-0	150 x 100mm	32μm	35μm	20mm	20mm	5mm
637-03-0	200 x 130mm	36μm	40μm	30mm	30mm	5mm

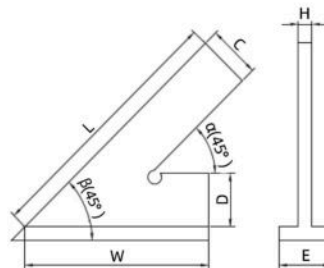


Point Angle Squares 45° With Base

637 Series



637-01-2



FEATURES

- Made of hardened stainless steel

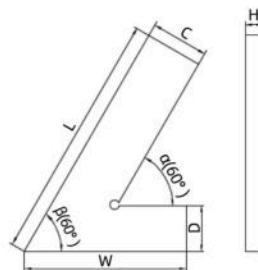
Dimensions							
Code No.	Size (LxW)	Accuracy		C	D	H	E
		Inside (α)	Outside (β)				
637-01-2	120 x 80mm	29 μ m	33 μ m	20mm	20mm	5mm	20mm
637-02-2	150 x 100mm	32 μ m	36 μ m	20mm	20mm	5mm	20mm
637-03-2	200 x 130mm	36 μ m	41 μ m	30mm	30mm	5mm	25mm

Point Angle Squares 60°

637 Series



637-04-0



FEATURES

- Made of hardened stainless steel

Dimensions						
Code No.	Size (LxW)	Accuracy		C	D	H
		Inside (α)	Outside (β)			
637-04-0	120 x 80mm	29 μ m	32 μ m	20mm	20mm	5mm
637-05-0	150 x 100mm	32 μ m	35 μ m	20mm	20mm	5mm
637-06-0	200 x 130mm	36 μ m	40 μ m	25mm	25mm	5mm

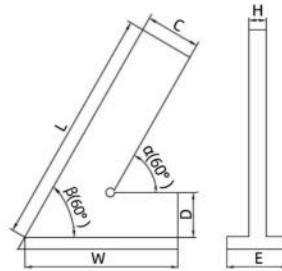


Point Angle Squares 60° With Wide Base

637 Series



637-04-2



FEATURES

- Made of hardened stainless steel

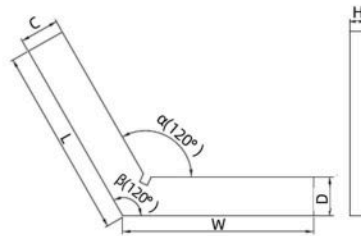
Code No.	Size (LxW)	Accuracy		C	D	H	E
		Inside (α)	Outside (β)				
637-04-2	120 x 80mm	29 μ m	33 μ m	20mm	20mm	5mm	20mm
637-05-2	150 x 100mm	32 μ m	36 μ m	20mm	20mm	5mm	20mm
637-06-2	200 x 130mm	36 μ m	41 μ m	30mm	30mm	5mm	25mm

Hexagon Squares 120°

637 Series



637-08-0



FEATURES

- Made of hardened stainless steel

Code No.	Size (LxW)	Accuracy		C	D	H
		Inside (α)	Outside (β)			
637-07-0	50 x 50mm	24 μ m	25 μ m	15mm	15mm	5mm
637-08-0	75 x 75mm	26 μ m	28 μ m	20mm	20mm	5mm
637-09-0	100 x 100mm	29 μ m	30 μ m	20mm	20mm	5mm
637-10-0	150 x 150mm	34 μ m	35 μ m	25mm	25mm	5mm
637-11-0	200 x 200mm	38 μ m	40 μ m	30mm	30mm	7mm

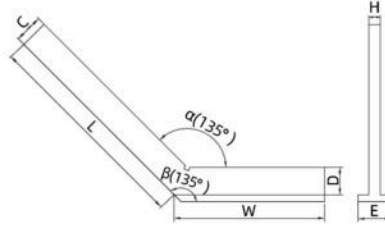


Octagon Squares 135° With Base

637 Series



637-13-2



FEATURES

- Made of hardened stainless steel

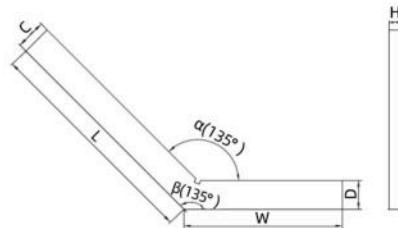
Dimensions							
Code No.	Size (LxW)	Accuracy		C	D	H	E
		Inside (α)	Outside (β)				
637-12-2	100 x 70mm	31μm	33μm	20mm	20mm	5mm	20mm
637-13-2	120 x 80mm	34μm	36μm	20mm	20mm	5mm	20mm
637-14-2	150 x 100mm	39μm	41μm	30mm	30mm	7mm	30mm
637-15-2	200 x 130mm	44μm	46μm	30mm	30mm	7mm	30mm

Octagon Squares 135°

637 Series



637-14-0



FEATURES

- Made of hardened stainless steel

Dimensions						
Code No.	Size (LxW)	Accuracy		C	D	H
		Inside (α)	Outside (β)			
637-12-0	50 x 50mm	31μm	33μm	20mm	20mm	5mm
637-13-0	75 x 75mm	34μm	36μm	20mm	20mm	5mm
637-14-0	100 x 100mm	39μm	41μm	30mm	30mm	7mm
637-15-0	125 x 125mm	44μm	46μm	30mm	30mm	7mm
637-16-0	200 x 200mm	49μm	51μm	35mm	35mm	7mm



Straight Knife Edges



639-73-0

639 Series

FEATURES

- Made of hardened Stainless Steel
- The design incorporates a precise 45 degree cross section allowing for visual inspection of surfaces
- The back edge is fitted with a thermal plastic grip to reduce the effects of heat transfer
- Straightness according to DIN874/00

Code No.	Metric Size	Squareness
639-71-0	75mm	00
639-72-0	100mm	00
639-73-0	125mm	00
639-74-0	150mm	00
639-75-0	200mm	00
639-76-0	300mm	00
639-77-0	400mm	00
639-78-0	500mm	00
639-79-0	600mm	00

Granite Squares



639-03-0

639 Series

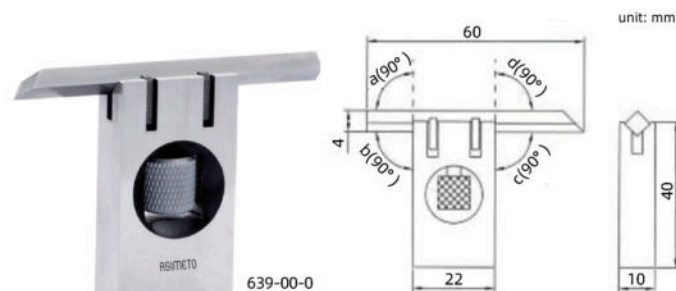
FEATURES

- Made of wear resistant black granite
- The flatness of the datum surfaces is according to DIN876/00
- Squareness is according to DIN875

Code No.	Just Size	Thickness	Accuracy
639-01-0	200 x 150mm	50mm	00
639-02-0	300 x 200mm	50mm	00
639-03-0	400 x 250mm	50mm	00
639-04-0	500 x 300mm	60mm	00
639-05-0	600 x 400mm	70mm	00
639-06-0	800 x 500mm	80mm	00
639-07-0	1000 x 600mm	100mm	00

Code No.	Just Size	Thickness	Accuracy
639-01-1	400 x 400mm	40mm	00

Adjustable Squares



639-00-0

unit: mm

639 Series

FEATURES

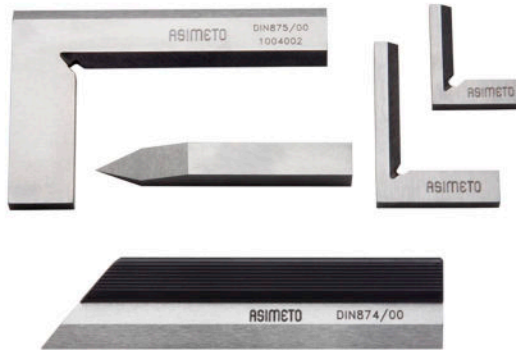
- Made of precision ground hardened Stainless Steel
- Accuracy according to DIN875

DIN 875 Grade 00			
Code No.	Ruler Length	Foot Size	Angle Tolerance(a, b, c, d)
639-00-0	60mm	40x22x10mm	0.007mm



5-pcs Square Sets

639 Series



639-00-8

Code No.	639-00-8
Description	Qty.
Straight Edge 100mm	1
Precision Square 75 x 50mm	1
Precision Square 40 x 28mm	1
Precision Square 25 x 20mm	1
Scriber 9 x 9 x 60mm	1

Die Makers Square Sets

606 Series



606-67-0

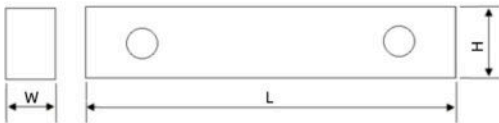
FEATURES

- Use for precise miniature layouts
 - Hardened and ground with very fine finish extremely accurate
 - Set includes:
 - 3 hardened beveled edge squares;
 - plus 1-1/2" triangular straight edge with handle complete in a fitted case
 - Straight edge sides are machined in the middle for clearance of burs and dirt
- Specifications of Squares:
- | | |
|----------|----------|
| Beam | Blade |
| 1-15/16" | 2-15/16" |
| 1-1/8" | 1-9/16" |
| 3/4" | 1" |

Code No.	Description	Included
606-67-0	Diemaker's Square Set	3 Hardened Beveled Edge Squares 1pc, Squares 3pcs



Granite Straight Edges



FEATURES

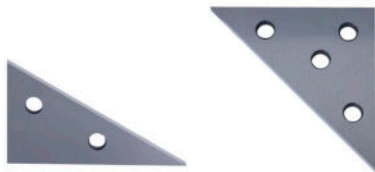
- The organizational structure is uniform, with an extremely small coefficient of expansion, high precision and low susceptibility to deformation.
- The surface is smooth and wear - resistant, with high hardness and strong abrasion resistance, making it less likely to develop scratches.
- It has a low coefficient of linear expansion, is less affected by temperature, and can maintain measurement accuracy at room temperature.

Dimensions								
Code No.	Range	Flatness	Straightness	Parallelism	Perpendicularity	L	W	H
639-82-2	600mm	2.1μm	2.1μm	3.2μm	10.5μm	630mm	35mm	100mm
639-82-3	1000mm	3.0μm	3.0μm	4.5μm	15.0μm	1000mm	50mm	160mm
639-82-4	1600mm	4.4μm	4.4μm	6.6μm	22.0μm	1600mm	80mm	250mm



Angle Gauges

605 Series



605-06-2

2 Pcs Set

Code No.	Size	Thickness	Angle	Accuracy
605-06-2	3 x 3" 2 x 3-1/8"	1/4" 1/4"	45° x 45° x 90° 30° x 60° x 90°	±0.01°



605-06-3

7 Pcs Set

Code No.	Grade	Individual Blocks Included
605-06-3	DIN/1	15° 10', 30° 20', 45° 30', 50°, 60° 40', 75° 50', 90°



605-06-0

FEATURES

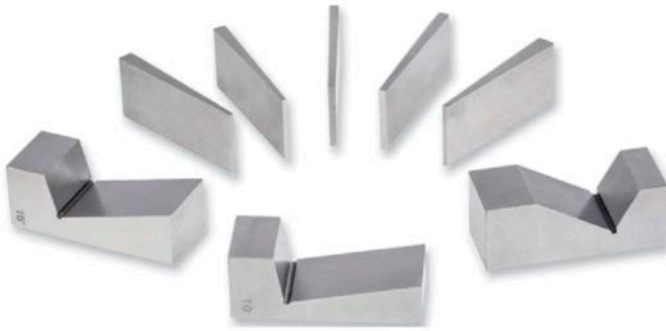
- Made of hardened steel. Hardness HRC 55
- Accuracy according to DIN/ISO 3650

Code No.	Set	Length x Thickness	Angle	Accuracy
605-06-0	10pcs/set	3" x 1/4"	1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25°, 30°	±0.01°
605-06-1	12pcs/set	3" x 1/4"	1/4°, 1/2°, 1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25°, 30°	±0.01°



Angle Gauges

605 Series



605-06-5

FEATURES

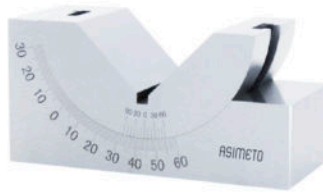
- For angle set-up in tooling, production and inspection
- Made of tool steel
- Hardness HRC45-50

Code No.	Angle	Size	Accuracy
605-06-5	1/2°, 1°, 2°, 3°, 4°, 5°	2-3/4"x1-3/16"x5/64"	±1"
	10°, 15°, 30°	3" x1-3/16"x1-3/16"	

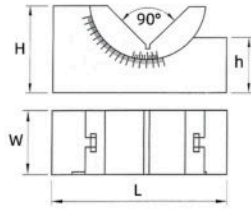


Adjustable Angle Blocks

607 Series



607-80-0



FEATURES

- Hardened and ground
- Reading accuracy 10 minutes
- With locking screw

Code No.	Size(LxWxH)	h	Adjustable Angle	Graduation Of Angle
607-80-0	75X25X36mm	25mm	30° -0° -60°	10 minutes
607-80-1	102X30X49mm	30mm	30° -0° -60°	10 minutes
607-80-2	102X46X49mm	46mm	30° -0° -60°	10 minutes

T Thread Angle Gauges

605 Series



605-54-0

FEATURES

- Precision machined hardened steel

Code No.	Angle	Range
605-54-0	30°	2-12mm
605-54-1	29°	1-10TPI

Center Gauges

605 Series



605-60-0

FEATURES

- Precision machined hardened steel
- Profile is for 60 degree threads
- Scales markings:
Side 1 with 14ths and 20ths graduations
Side 2 with 24ths and 32ths graduations

Code No.	Angle	Graduation
605-60-0	60°	14ths And 20ths On Front Side; 24ths And 32ths On Front Side
605-60-2	60°	0.5mm/1mm
605-60-3	55°	14ths And 20ths On Front Side; 24ths And 32ths On Front Side



Angle Gauges

605 Series



605-01-0

FEATURES

- Material: Satin finished Stainless Steel
- Each gauge has eight precision radii
- The contour of each gauge has: 50% of primary angle and complementary angles including internal and external angles
- Various purposes including alignment of the lathe tool bit and for checking cutting tool geometry

Set

Code No.		Description		No. Of Leaves			
605-01-0		Angle Gauges Set		18			
Individual Gauges Included							
Primary Angle	1/2 Primary Angle	Accuracy	Complementary Angle	Primary Angle	1/2 Primary Angle	Accuracy	Complementary Angle
5° D	2° 30'	±5'	175° D	50° D	25° D	±5'	130° D
10° D	5° D	±5'	170° D	55° D	27° 30'	±5'	125° D
15° D	7° 30'	±5'	165° D	60° D	30° D	±5'	120° D
20° D	10° D	±5'	160° D	65° D	32° 30'	±5'	115° D
25° D	12° 30'	±5'	155° D	70° D	35° D	±5'	110° D
30° D	15° D	±5'	150° D	75° D	37° 30'	±5'	105° D
35° D	17° 30'	±5'	145° D	80° D	40° D	±5'	100° D
40° D	20° D	±5'	140° D	85° D	42° 30'	±5'	95° D
45° D	22° 30'	±5'	135° D	90° D	45° D	±5'	90° D

Angle Gauges Sets 1-45°

605 Series



605-62-0

FEATURES

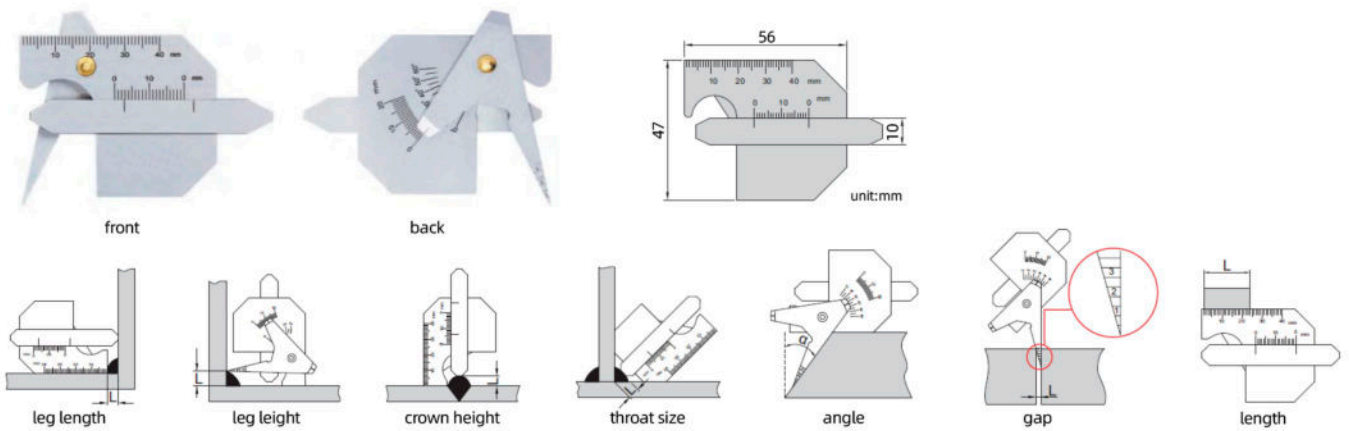
- Precision machined hardened steel

Code No.	Range	Qty.
605-62-0	1° -45°	20 Pcs

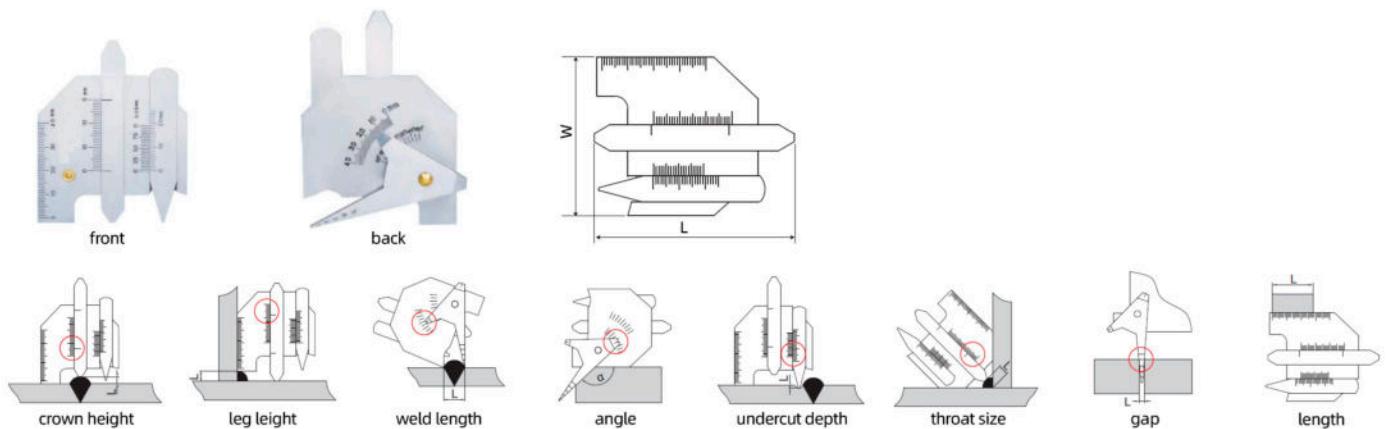


Welding Gauges

607 Series



Code No.	Measurement	Range	Graduation	Accuracy
607-63-1	Leg Length	0-20mm	1mm	±0.3mm
	Leg Height	0-20mm	1mm	±0.3mm
	Crown Height	0-20mm	1mm	±0.3mm
	Throat Size	0-10mm	1mm	±0.3mm
	Angle	0-60°	5°	±1°
	Gap	1-3.5mm	0.5mm	±0.2mm
	Length	0-40mm	1mm	±0.3mm



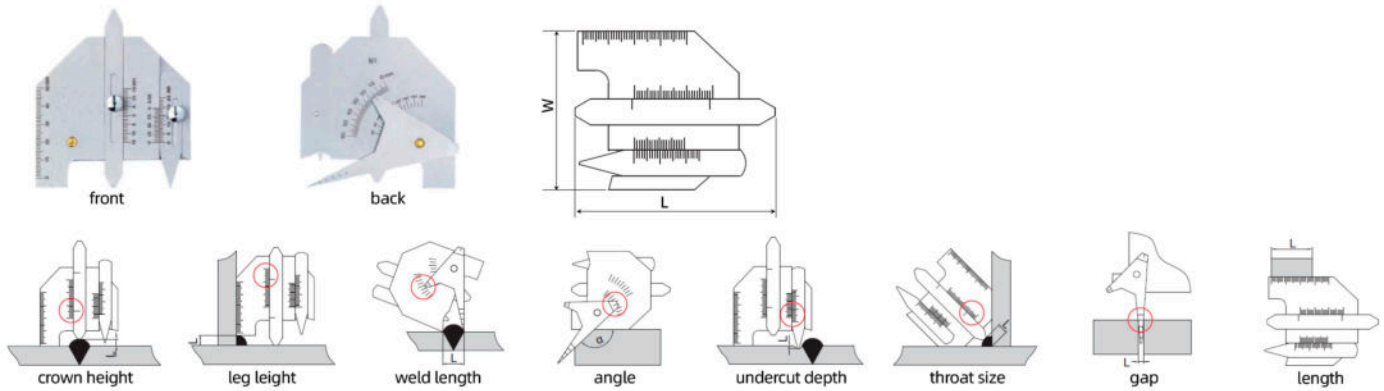
Leg Height: 0-10mm

Code No.	Measurement	Range	Graduation	Accuracy
607-63-2	Crown Height	0-10mm	1mm	±0.5mm
	Leg Length	0-14mm	1mm	±0.05mm
	Undercut Depth	0-5mm	0.05mm	±0.3mm
	Throat Size	0-13mm	1mm	±0.5mm
	Weld Length	0-40mm	1mm	±1mm
	Angle	90-150°	5°	±1°
	Gap	0.5-5mm	1mm	±0.5mm
	Length	0-40mm	1mm	±1mm
	L x W	62 x 77mm		



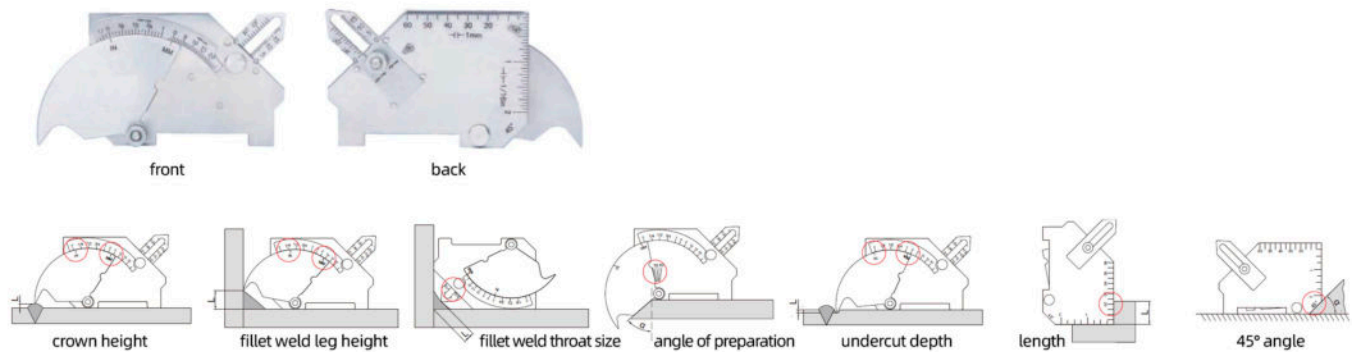
Welding Gauges

607 Series



Leg Height: 0-15mm

Code No.	Measurement	Range	Graduation	Accuracy
607-63-3	Crown Height	0-15mm	1mm	±0.5mm
	Leg Length	0-15mm	1mm	±0.05mm
	Undercut Depth	0-5mm	0.05mm	±0.3mm
	Throat Size	0-13mm	1mm	±0.5mm
	Weld Length	0-60mm	1mm	±1mm
	Angle	80-160°	5°	±1°
	Gap	1-6mm	1mm	±0.5mm
	Length	0-50mm	1mm	±1mm
	L x W	99 x 84mm		



Crown Height: 0-25mm / 0-1"

Code No.	Measurement	Range	Graduation	Accuracy
607-63-4	Crown Height	0-25mm / 0-1"	1mm / 1/16"	±0.5mm
	Fillet Weld Leg Length	0-25mm / 0-1"	1mm / 1/16"	±0.05mm
	Misalignment	0-25mm / 0-1"	1mm / 1/16"	±0.05mm
	Undercut Depth	0-2mm / 0-1/8"	1mm / 1/16"	±0.05mm
	Fillet Weld Throat Size	0-20mm / 0-3/4"	1mm / 1/16"	±0.05mm
	Angle Of Preparation	0-60°	5°	±1°
	Length	0-60mm / 0-2"	1mm / 1/16"	±0.5mm
	45° Angle	-	-	±1°



Radius Gauges



605-42-0

605 Series

FEATURES

- Size is permanently marked on each gauge leaf
- Gauge profiles have both convex and concave radii

Code No.	Range	Qty.	Step By
605-40-1	17/32"-1"	16 Slise	1/32"
605-41-1	1/32"-1/4"	15 Slise	1/64"
605-42-1	17/64"-1/2"	16 Slise	1/32"
605-42-0	1-6.5mm	16 pairs	1-3/0.25mm, 3.5-6.5/0.5mm
605-43-0	7-14.5mm	16 pairs	0.5mm
605-44-0	15-25mm	16 pairs	15-20/0.5mm, 21-25/1mm

Radius Gauges



605-41-0

605 Series

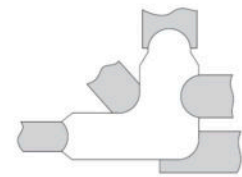
FEATURES

- Each piece has 3 concave and 2 convex gauging surfaces
- Supplied with handle
- Size is permanently marked on each gauge leaf

Code No.	Range	Qty.	Step By
605-41-0	0.5-13mm	26 Slise	0.5mm



Use Of Handle



3 Concave And 2 Convex Gaging Surfaces



Thread Pitch Gauges

605 Series



605-50-0

FEATURES

- Each individual gauge is stamped with the thread pitch size
- See chart below for different thread forms

Metric Screw Pitch Gauges (60°)

Code No.	Range	No. Of Leaves	Composition Of Leaves
605-50-0	0.25-2.5mm	28	0.25-0.90mm By 0.05mm, 1-2mm x 0.1mm Step, Plus 1.25, 1.75, 2.5mm
605-51-0	0.35-6mm	22	0.35, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6mm, And 60° Angle Gauge
605-52-0	0.4-7mm	21	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
605-53-0	0.4-7mm	18	0.4, 0.5, 0.75, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm

Unified Screw Pitch Gauges (60°)

Code No.	Range	No. Of Leaves	Composition Of Leaves
605-50-2	4-42 TPI	30	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42 TPI
605-51-2	4-84 TPI	51	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84 TPI

Metric And Unified Screw Pitch Gauges (60°)

Code No.	Range	No. Of Leaves	Composition Of Leaves
605-50-8	0.4-7mm 4-42 TPI	51	605-52-0 and 605-50-2

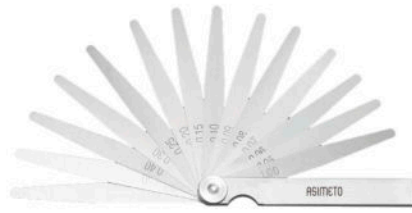
Whitworth Screw Pitch Gauges (55°)

Code No.	Range	No. Of Leaves	Composition Of Leaves
605-50-5	4-42 TPI	30	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 19, 20, 22, 24, 26, 27, 28, 30, 32, 36, 38, 40, 42 TPI
605-51-5	4-60 TPI	28	4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 22, 24, 25, 26, 28, 30, 32, 34, 36, 40, 42, 48, 60 TPI

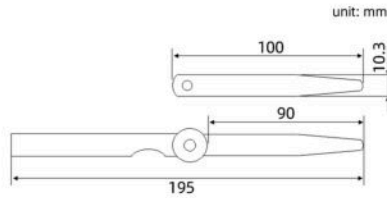


Feeler Gauges

605 Series



605-73-1



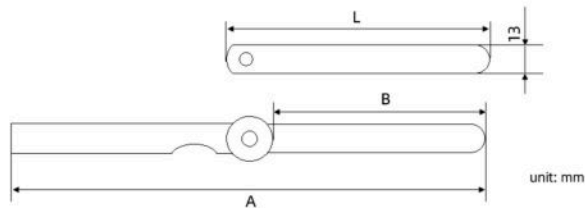
FEATURES

- Made of hardened alloy steel
- Meet DIN2275
- Accuracy: $\pm (3+T/80) \mu\text{m}$, "T" is the thickness of leaves in μm

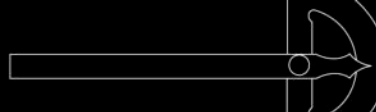
Metric			
Code No.	Range	Thickness Of Leaves Included (mm)	Quantity Of Leaves
605-73-1	0.03-0.50mm	0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.30, 0.40, 0.50	13
605-73-2	0.05-1.00mm	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00	13
605-73-3	0.02-1.00mm	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	17
605-73-4	0.05-1.00mm	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	20
605-73-5	0.05-1.00mm	0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.11, 0.12, 0.13, 0.14, 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	28
605-73-6	0.03-1.00mm	0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.13, 0.15, 0.18, 0.20, 0.23, 0.25, 0.28, 0.30, 0.33, 0.35, 0.38, 0.40, 0.45, 0.50, 0.55, 0.60, 0.63, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 1.00	32



605-73-7

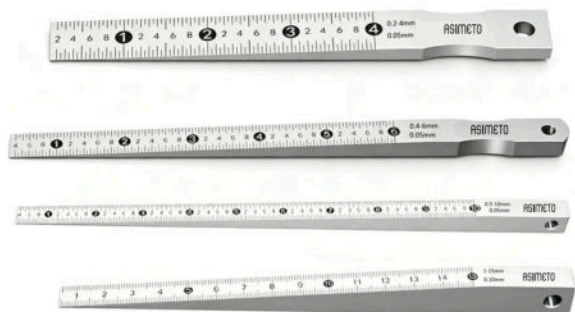


Metric				Dimensions		
Code No.	Range	Thickness Of Leaves Included (mm)	Quantity Of Leaves	L	A	B
605-73-7	0.05-1.00mm	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00	13	150mm	295mm	135mm
605-73-8	0.05-1.00mm	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00	13	200mm	395mm	185mm
605-73-9	0.05-1.00mm	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	13	300mm	590mm	285mm
605-74-0	0.05-1.00mm	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	20	150mm	295mm	135mm
605-74-1	0.05-1.00mm	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	20	200mm	395mm	185mm
605-74-2	0.05-1.00mm	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	20	300mm	590mm	285mm



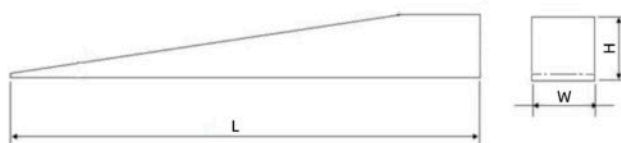
Taper Slot Gauge

605 series



FEATURES

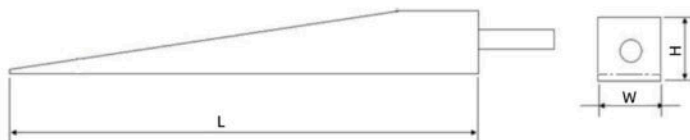
- Tapered wedge design; the thin tip easily enters narrow gaps and bevel openings. It positions itself upon insertion without repeated adjustments. Even irregular narrow gaps and deep holes can be measured, solving the problem of ordinary calipers and feeler gauges being unable to reach.
- Insert and read - precise gap measurement! Precision tapered gap gauge for efficient gap checking.
- Compared with feeler gauge sets, no need to stack multiple blades. Direct reading avoids the complexity and errors of stacking or estimation.



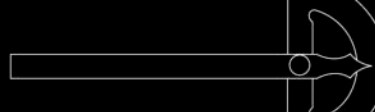
Dimensions					
Code No.	Range	Graduation	L	W	H
605-21-0	0.2-4mm	0.05mm	119mm	12.5mm	4.2mm
605-21-2	0.4-6mm	0.05mm	167mm	9mm	6.55mm
605-21-4	0.5-10mm	0.05mm	238mm	9.2mm	11mm
605-21-6	1-15mm	0.10mm	183mm	9.2mm	16mm

Taper Slot Gauge With Handle

605 series



Dimensions					
Code No.	Range	Graduation	L	W	H
605-20-0	0.5-7mm	1.00mm	98.04mm	7.89mm	8.47mm
605-20-2	2.0-7mm	1.00mm	82.64mm	7.93mm	8.04mm
605-20-4	0.5-11mm	1.00mm	138.08mm	7.84mm	12.20mm

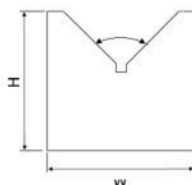


V Blocks

607 Series



607-04-0



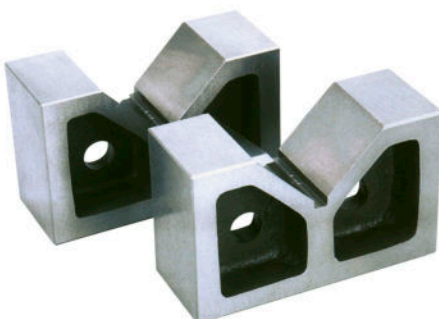
FEATURES

- V-shape angle 90°
- Accuracy: 0.01 mm
- Squareness: 0.01mm
- Two V-blocks per set
- Made in cast iron

Code No.	Size (LxWxH)	Range Of Shafts Dia.
607-04-0	50x40x30mm	6-45mm
607-04-1	75x40x30mm	6-45mm
607-04-2	100x40x30mm	6-45mm
607-04-3	150x50x40mm	6-54mm
607-04-4	200x70x50mm	8-80mm

Cast Vee Blocks

607 Series



607-70-0

FEATURES

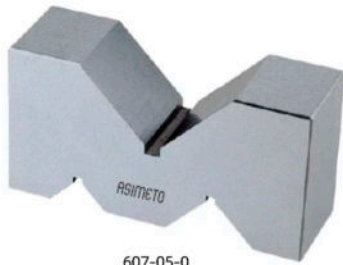
- Precision ground matched pairs made of cast iron grade 20
- Supports objects that are cylindrical and 90° or less
- Accuracy:
Flatness: .0005"
Parallelism: .0008"
Perpendicularity: .0008"

Code No.	Length	Width	Height	Range Of Shafts Dia.
607-70-0	2"	7/8"	1-1/4"	.24-2.17"
607-71-0	3"	1-5/16"	2-3/8"	.32-2.21"
607-72-0	4"	1-5/8"	2-5/8"	.40-2.84"
607-73-0	5"	2"	3-1/8"	.40-3.15"
607-74-0	6"	2-1/2"	3-1/2"	.40-4"

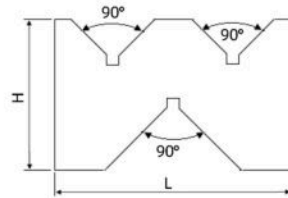


V Block Sets

607 Series



607-05-0



unit: mm



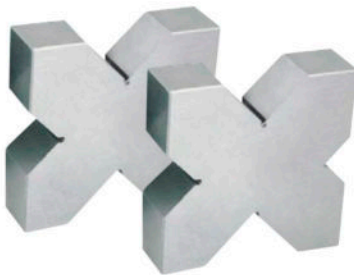
FEATURES

- V-shape angle 90°
- Accuracy: 0.01 mm
- Squareness: 0.01mm
- Two V-blocks per set
- Made in cast iron

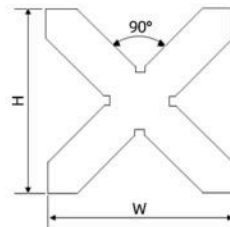
Code No.	Size (LxWxH)	Range Of Shafts Dia.
607-05-0	50x24x19mm	4-30mm
607-05-1	75x35x24mm	4-54mm
607-05-2	100x52x33mm	8-68mm
607-05-3	125x69x44mm	8-80mm
607-05-4	150x90x62mm	8-100mm
607-05-5	175x24x24mm	8-115mm
607-05-6	200x110x70mm	8-136mm

4 WAY V Blocks

607 Series



607-06-1



unit: mm



FEATURES

- Made with hardened steel
HRC55-62
- V-shape angle 90°
- Accuracy: 0.01 mm
- Squareness: 0.01mm
- Two V-blocks per set

Code No.	Size (LxWxH)	Range Of Shafts Dia.
607-06-1	30x38x38mm	5-20mm
607-06-2	50x80x80mm	6-50mm
607-06-3	60x100x100mm	6-68mm



V-Blocks With Clamps

606 Series



606-60-0



606-60-6

FEATURES

- Made with hardened steel at HRC55-62
- With spring clamping bar
- Delivered in pairs
- Accuracy:
Parallelism & Squareness: 0.005mm

Plain Clamp

Code No.	Dimensions	Range Of Shafts Dia.
606-60-0	30 x 35 x 35mm	3-15mm
606-61-0	60 x 60 x 50mm	4-30mm
606-62-0	105 x 105 x 78mm	6-65mm

Deep Throat Clamp

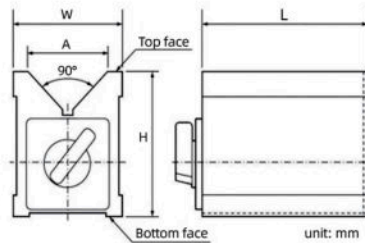
Code No.	Dimensions	Range Of Shafts Dia.
606-60-6	41 x 32 x 32mm	5-26mm
606-60-2	70 x 45 x 41mm	6-60mm
606-60-4	70 x 63 x 44mm	6-45mm
606-60-1	1-5/8" x 1-1/4" x 1-1/4"	.1-1"
606-60-3	1-3/4" x 1-5/8" x 1-3/8"	.12-1.25"
606-60-5	2-3/4 x 1-3/4" x 1-5/8"	.12-1.2"

Magnetic V-Blocks

609 Series



609-13-0



FEATURES

- Workpiece can be placed on v-shape or top surface
- The rotary knob switches natural magnet on or off
- The precision surfaces and the bottom V are securely fastened to the ferrous work piece or machine table when the rotary knob is in the on position
- Hardness: HRB 75-80

One Pair	One Piece	Dimensions					
Code No.	Code No.	Magnetic Power	Magnetic Base		Weight	Parallelism Of V Grooves To Top,Bottom,Left,Right Sides	Squareness Of V Grooves To Back Side
			(L x W x H)	A			
609-10-0	609-10-1	60 kgf	70 x 60 x 72mm	36mm	1.6kg	5µm	5µm
609-11-0	609-11-1	70 kgf	80 x 56 x 72mm	36mm	1.7kg	5µm	5µm
609-12-0	609-12-1	80 kgf	125 x 60 x 72mm	36mm	3.0kg	6µm	6µm
609-13-0	609-13-1	70 kgf	100 x 70 x 95mm	46mm	4.0kg	6µm	6µm
609-14-0	609-14-1	80 kgf	115 x 75 x 100mm	50mm	5.2kg	6µm	6µm

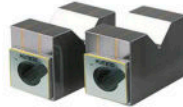


Magnetic V-Blocks

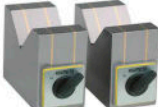
609 Series



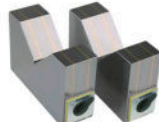
609-20-1



609-20-0



609-21-0



609-22-0

FEATURES

- Used for Grinding, Light Milling, Drilling & Inspection of Round & Square Jobs
- The top (V surface) and the end face can be adsorbed
- The switch level can be loaded and unloaded
- Constitute a set of two
- Hardness: HRB 70

One Pair

Code No.	Dimensions	Power	Range Of Shafts Dia.	Parallelism Of V Grooves Bottom And Back Sides	Height Difference Of A Matched Pair
609-20-1	70 x 40 x 50mm	15 kgf	Ø5-48mm	10µm	10µm
609-20-0	70 x 40 x 50mm	15 kgf	Ø5-48mm	10µm	10µm
609-21-0	100 x 50 x 80mm	20 kgf	Ø5-80mm	10µm	10µm
609-22-0	150 x 50 x 100mm	23 kgf	Ø6-100mm	10µm	10µm

Magnetic Induction Blocks

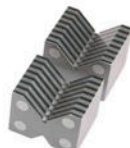
609 Series



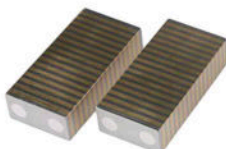
609-30-0



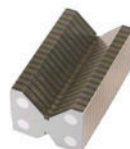
609-31-0



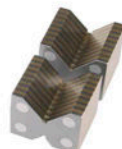
609-32-0



609-30-1



609-31-1



609-32-1

FEATURES

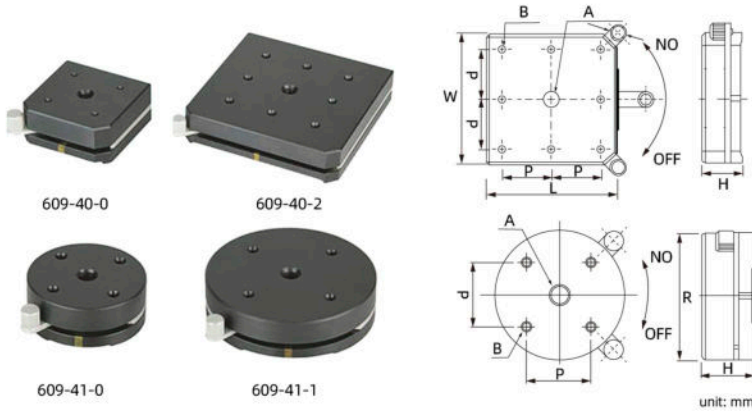
- Used to extends magnetic force to hold bar, or irregular shaped work pieces

Code No.	Dimensions	Material	Range Of Shafts Dia.	Parallelism Of V Grooves Bottom And Back Sides	Height Difference Of A Matched Pair
609-30-0	100 x 50 x 25mm	Steel / Aluminum	-	-	10µm
609-30-1	100 x 50 x 25mm	Steel / Copper	-	-	10µm
609-31-0	100 x 58 x 46mm	Steel / Aluminum	Ø5-48mm	10µm	10µm
609-31-1	100 x 58 x 46mm	Steel / Copper	Ø5-48mm	10µm	10µm
609-32-0	50 x 58 x 46mm	Steel / Aluminum	Ø5-48mm	10µm	10µm
609-32-1	50 x 58 x 46mm	Steel / Copper	Ø5-48mm	10µm	10µm



Thin Type Magnetic Holders

609 Series



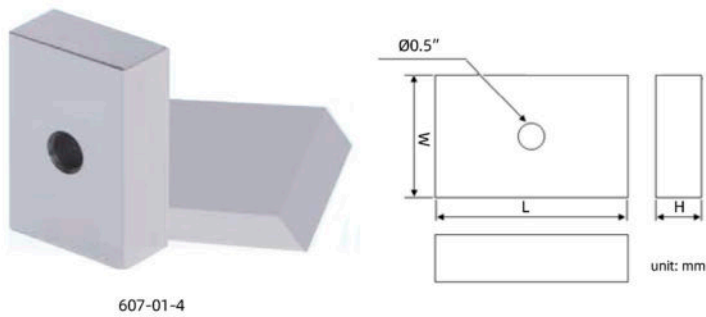
FEATURES

- Suitable as a base for securing jigs and measuring equipment on an iron surface plate or machine table and as a temporary base for laser and optical measurement
- Since these bases are of switchover type permanent magnetic bases, they are recommended for applications that require fine adjustment and accuracy
- Simple ON/OFF operation with the level
- Thin and powerful magnetic force
- Dry specification

Dimensions						Thread		
Code No.	Holding Power	W	L	H	P	R	A	B
609-40-0	6.5kgf	45mm	45mm	20mm	25mm	-	M8	4-M4
609-40-1	20kgf	65mm	65mm	20mm	25mm	-	M8	8-M4
609-40-2	25kgf	90mm	90mm	20mm	25mm	-	M8	8-M4
609-40-3	80kgf	125mm	125mm	30mm	50mm	-	M16	8-M6
609-41-0	6kgf	-	-	-	20mm	50mm	M8	4-M4
609-41-1	20kgf	-	-	-	20mm	75mm	M8	4-M4

1-2-3 Blocks

607 Series



FEATURES

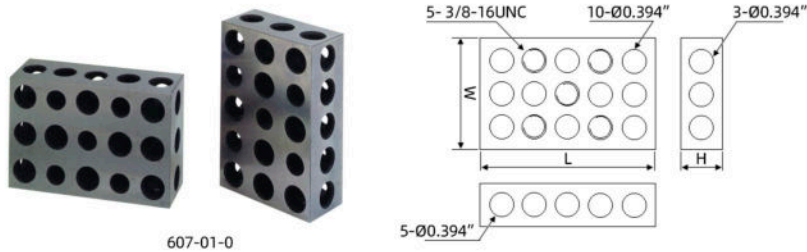
- Pairs of matched blocks for positioning and set
- Hardened steel to HRC52-58

Dimensions						
Code No.	Size (HxWxL)	Squareness	Size Accuracy	Parallelism	Height Difference Of A Matched Pair	Hole
607-01-4	1X2X3"	.0001"/1"	± .0002"	.0002"	.0002"	Nonporous
607-01-5	1X2X3"	.0001"/1"	± .0003"	.0002"	.0002"	1 hole



1-2-3 Blocks

607 Series



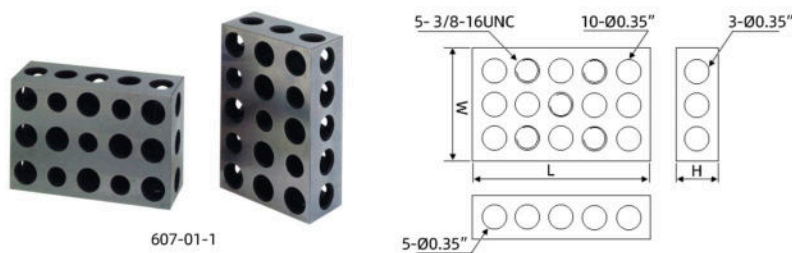
FEATURES

- Pairs of matched blocks for positioning and set
- Hardened steel to HRC52-58

Dimensions						
Code No.	Size (HxWxL)	Squareness	size accuracy	Parallelism	Height difference of a matched pair	Hole
607-01-0	1 x 2 x 3"	.0003"/1"	± .0002"	.0002"	.0002"	23 hole

2-3-4 Blocks

607 Series



FEATURES

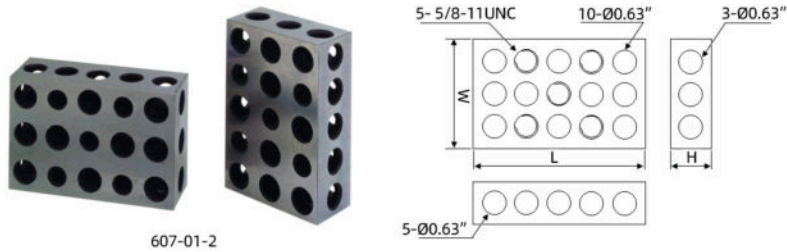
- Pairs of matched blocks for positioning and set
- Hardened steel to HRC52-58

Dimensions						
Code No.	Size (HxWxL)	Squareness	size accuracy	Parallelism	Height difference of a matched pair	Hole
607-01-1	2 x 3 x 4"	.0003"/1"	± .0002"	.0002"	.0002"	23 hole



2-4-6, 4-6-8 Blocks

607 Series



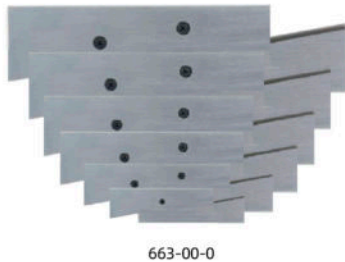
FEATURES

- Pairs of matched blocks for positioning and set
- Hardened steel to HRC52-58

Dimensions						
Code No.	Size (HxWxL)	Squareness	size accuracy	Parallelism	Height difference of a matched pair	Hole
607-01-2	2 x 4 x 6"	.0003"/1"	± .0005"	.0002"	.0002"	23 hole
607-01-3	4 x 6 x 8"	.0003"/1"	± .0005"	.0002"	.0002"	23 hole

Adjustable Parallels

663 Series



FEATURES

- Quickly adjustable
- All parallels are 9/32" thick

Dimensions						
Code No.	Inch Size (H)	Inch Size (L)	Metric Size (H)	Metric Size (L)	Size Accuracy	Parallelism
663-00-0	3/8"-1/2" 1/2"-11/16" 11/16"-15/16" 15/16"-1-5/16" 1-5/16"-1-3/4" 1-3/4"-2-1/4"	1-3/4" 2-1/8" 2-11/16" 3-9/16" 4-3/16" 5-1/16"	9.5-12.7mm 12.7-17.5mm 17.5-24mm 24-33mm 33-44mm 44-57mm	45mm 55mm 70mm 90mm 105mm 130mm	±.0005"	.0004"



Precision Parallel Sets

607 Series



607-08-0

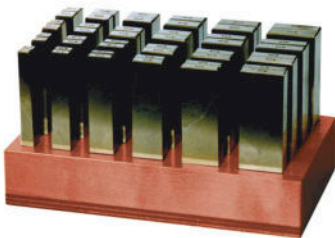
FEATURES

- Hardened and ground high grade alloy steel
- Hardness HRC52-58
- 6" length
- Height specifications consistent within each pair
- Absolute heights are nominal
- Supplied in durable molded plastic case

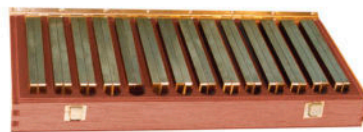
Code No.	Number Of Pairs	Description	Thickness	Parallelism	Paired Accuracy	Width Accuracy	Length Accuracy
607-08-0	8 Pair Parallel Set	7/8" to 1-3/4" in 1/8" Increments.	1/2"	±.0003"	±.0003"	±.0008"	±.0006"
607-09-0	9 Pair Parallel Set	3/4" to 1-3/4" in 1/8" Increments.	1/4"	±.0002"	±.0002"	±.0008"	±.0006"
607-10-0	10 Pair Parallel Set	1/2" to 1-5/8" in 1/8" Increments.	1/8"	±.0002"	±.0002"	±.0008"	±.0006"
607-10-1	10 Pair Parallel Set	1/2" to 1-5/8" in 1/8" Increments.	1/32"	±.0002"	±.0002"	±.0008"	±.0006"

High Precision Metric Parallels

663 Series



663-02-0



663-12-0

FEATURES

- Made of hardened steel. Hardness HRC48
- Tolerance of Height: ±0.01mm
- Tolerance in pairs IT5

Code No.	Range	Length	Width	Number Of Pairs
663-01-0	14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40mm	120mm	10mm	12
663-02-0	14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40, 45, 50mm	150mm	10mm	14
663-03-0	10, 14, 18, 22, 26, 30, 34, 38, 42mm	100mm	4mm	9
663-04-0	10, 14, 18, 22, 26, 30, 34, 38, 42mm	160mm	4mm	9

Code No.	Range	Length	Number Of Pairs
663-11-0	2 x 5, 3 x 6, 4 x 7, 5 x 8, 6 x 9, 2 x 10, 3 x 11, 4 x 12, 5 x 13, 6 x 14mm, 2 x 15, 3 x 16, 4 x 17, 5 x 18, 6 x 19, 2 x 20, 3 x 21, 4 x 22, 5 x 23, 6 x 24mm	100mm	20
663-12-0	8 x 11, 10 x 13, 12 x 15, 14 x 17, 8 x 16, 10 x 18, 12 x 20, 14 x 22, 8 x 21, 10 x 23, 12 x 25, 14 x 27mm	125mm	24
663-13-0	8 x 26, 10 x 28, 12 x 30, 14 x 32, 8 x 31, 10 x 33, 12 x 35, 14 x 37, 8 x 36, 10 x 38, 12 x 40, 14 x 42mm	150mm	24

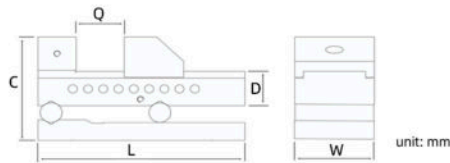


Precision Sine Vise

608 Series



608-01-0



FEATURES

- Parallelism: 0.003mm/100mm
- Perpendicularity: 0.005mm/100mm
- Hardness HRC58-60
- Made of alloy steel

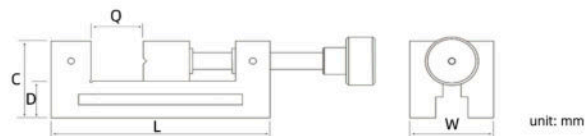
Dimensions					
Code No.	Jaw Opening (Q)	Jaw Width (W)	L	C	D
608-01-0	0-80mm	50mm	150mm	86mm	28mm
608-02-0	0-90mm	63mm	175mm	95.5mm	31mm
608-03-0	0-100mm	73mm	190mm	105mm	35mm
608-04-0	0-130mm	100mm	245mm	127mm	45mm

Precision Vise

608 Series



608-10-0



FEATURES

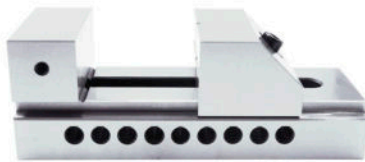
- Parallelism : 0.003mm/100mm
- Perpendicularity: 0.005mm/100mm
- Hardness HRC58-60
- Made of alloy steel

Dimensions					
Code No.	Jaw Opening (Q)	Jaw Width (W)	L	C	D
608-10-0	0-63mm	48mm	156mm	52mm	27mm
608-11-0	0-73mm	63mm	176mm	63mm	33mm
608-12-0	0-76mm	73mm	190mm	73mm	38mm
608-13-0	0-115mm	88mm	250mm	80mm	38mm
608-14-0	0-120mm	98mm	255mm	82mm	42mm
608-15-0	0-152mm	125mm	310mm	100mm	50mm

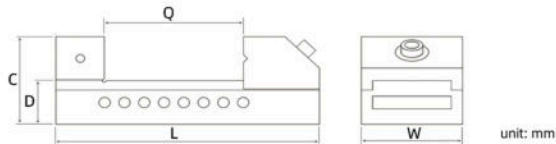


Precision Vise

608 Series



608-20-0



unit: mm

FEATURES

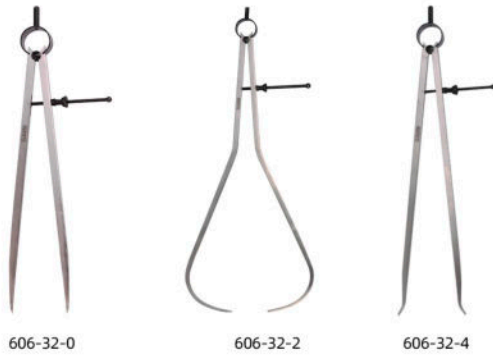
- Parallelism: 0.003mm/100mm
- Perpendicularity: 0.005mm/100mm
- Hardness HRC58-60
- Made of alloy steel

Dimensions					
Code No.	Jaw Opening (Q)	Jaw Width (W)	L	C	D
608-20-0	0-80mm	50mm	150mm	53mm	28mm
608-21-0	0-90mm	63mm	175mm	63mm	31mm
608-22-0	0-100mm	73mm	190mm	70mm	35mm
608-23-0	0-130mm	88mm	235mm	80mm	40mm
608-24-0	0-130mm	100mm	245mm	90mm	45mm
608-25-0	0-160mm	125mm	285mm	100mm	45mm



Spring Dividers And Calipers

606 Series



unit: mm

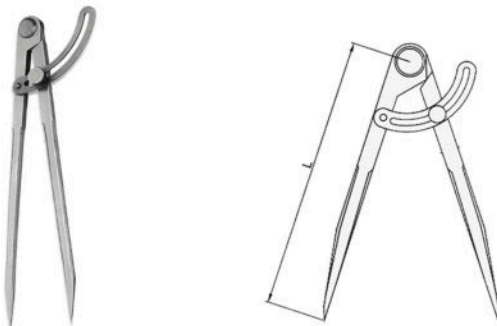
FEATURES

- Manufactured from hardened durable material
- Contact surfaces are rounded

Spring Divider	Outside Spring Caliper	Inside Spring Caliper				
Code No.	Code No.	Code No.	Inch Range	Metric Range	a	b
606-31-0	606-31-2	606-31-4	6"	150mm	7mm	7mm
606-32-0	606-32-2	606-32-4	8"	200mm	7mm	7mm
606-33-0	606-33-2	606-33-4	10"	250mm	8mm	8mm
606-34-0	606-34-2	606-34-4	12"	300mm	8mm	8mm
606-35-0	606-35-2	606-35-4	16"	400mm	8mm	8mm
606-36-0	606-36-2	606-36-4	20"	500mm	8mm	8mm
606-37-0	606-37-2	606-37-4	24"	600mm	8mm	8mm

Arched Compasses

606 Series



unit: mm

FEATURES

- Manufactured from hardened durable material
- Contact surfaces are rounded

	Inch	Metric		
Code No.	Range (L)	Range (L)	a	b
606-31-1	6"	150mm	10mm	7mm
606-32-1	8"	200mm	10mm	7mm
606-33-1	10"	250mm	10mm	7mm
606-34-1	12"	300mm	10mm	7mm
606-35-1	18"	400mm	11mm	7mm
606-36-1	20"	500mm	11mm	7mm
606-37-1	24"	600mm	11mm	7mm
606-38-1	32"	800mm	14mm	14mm
606-39-1	40"	1000mm	14mm	14mm



Arched Compasses With Pencil Holder

606 Series



606-31-3



unit: mm

FEATURES

- Manufactured from hardened durable material
- Contact surfaces are rounded

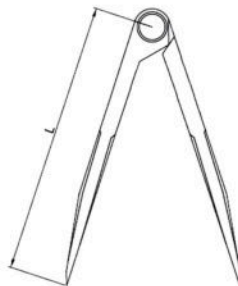
	Inch	Metric		
Code No.	Range (L)	Range (L)	a	b
606-31-3	6"	150mm	10mm	7mm
606-32-3	8"	200mm	10mm	7mm
606-33-3	10"	250mm	10mm	7mm
606-34-3	12"	300mm	10mm	7mm
606-35-3	18"	400mm	11mm	7mm
606-36-3	20"	500mm	11mm	7mm
606-37-3	24"	600mm	11mm	7mm
606-38-3	32"	800mm	14mm	14mm
606-39-3	40"	1000mm	14mm	14mm

Pointed Compasses

606 Series



606-31-5

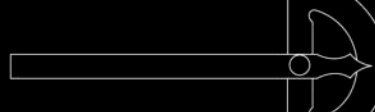


unit: mm

FEATURES

- Manufactured from hardened durable material
- Contact surfaces are rounded

	Inch	Metric		
Code No.	Range (L)	Range (L)	a	b
606-31-5	6"	150mm	10mm	7mm
606-32-5	8"	200mm	10mm	7mm
606-33-5	10"	250mm	10mm	7mm
606-34-5	12"	300mm	10mm	7mm
606-35-5	18"	400mm	11mm	7mm
606-36-5	20"	500mm	11mm	7mm
606-37-5	24"	600mm	11mm	7mm
606-38-5	32"	800mm	14mm	14mm
606-39-5	40"	1000mm	14mm	14mm

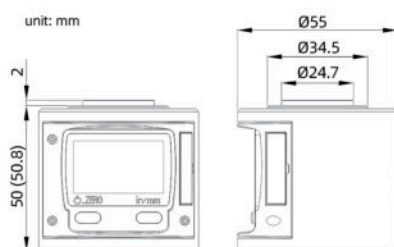


Digital Zero Setters

001 Series



001-29-2



FEATURES

- Button function: On/Off, Zero, mm/in
- Light indicating when LCD display "0.000"
- Power on automatically when the measuring surface moving
- Protection level IP65



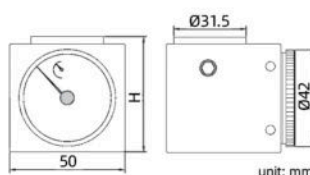
Inch					Metric			
Code	Height	Range	Resolution	Accuracy	Height	Range	Resolution	Accuracy
001-29-2	2"	0.12"	.00005"	.0002"	50mm	2.5mm	0.001mm	0.005mm

Zero Setters

001 Series



001-29-0



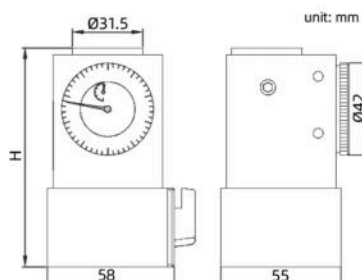
FEATURES

- With magnet on base, which is helpful for fixing

#1				
Code No.	Height (H)	Range	Resolution	Accuracy
001-29-0	50mm	2.0mm	0.01mm	±0.01mm



001-29-1



FEATURES

- With magnet on base, which is helpful for fixing

#2				
Code No.	Height (H)	Range	Resolution	Accuracy
001-29-1	100mm	2.0mm	0.01mm	±0.01mm



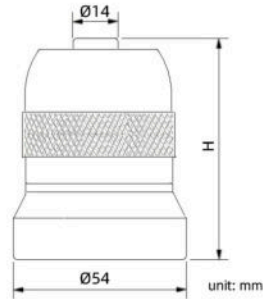
Electronic Zero Setter

001 series



001-29-4

Red LED indicator lights up



FEATURES

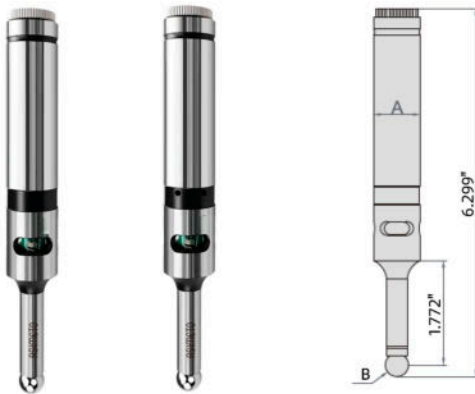
- The base forms a conductive loop via the machine table, tool holder, and cutting tool. When the tool contacts the anvil, the LED indicator lights up instantly with 360° visibility - no dial watching or reading required. The tool setting status is clear at a glance.
- Optoelectronic triggering, minimal contact force: Extremely low contact force prevents chipping or breaking of small diameter end mills and drills, protecting valuable cutting tools.
- Tool wear monitoring: By regularly setting the tool and recording the amount of wear, long term machining dimensional stability is ensured.
- Strong permanent magnetic base: The powerful permanent magnet at the bottom allows the unit to be mounted on the machine table or the side of fixtures. It supports both top and side probing, enabling quick setup without shifting.

Code No.	Height (H)	Accuracy	Probe Retraction Range
001-29-4	50mm	±0.01mm	1.20mm

Electronic Edge Finders

001 Series

NEW



001-40-1

FEATURES

- The shank is electrically conducted to the metal workpiece through the chuck and table, the LED lights up and the beeper sounds, when the ball touches the workpiece
- Not suitable for rotary use
- Hardened shank and contact ball

Inch				
Code No.	Shank(A)	Contact (B)	Accuracy	Beeper
001-40-1	3/4"	.4"	.0002"	without
001-40-3	3/4"	.4"	.0002"	with

Metric				
Code No.	Shank(A)	Contact (B)	Accuracy	Beeper
001-40-0	20mm	10mm	0.005mm	without
001-40-2	20mm	10mm	0.005mm	with

Gauges

281	Rectangular Steel Gauge Block Sets	295	Inch Master Setting Ring Gauges
283	Rectangular Tungsten Steel Gauge Block Sets	296	ANSI Inch Thread Plug Gauges And Adjustable Ring Gauges
283	Rectangular Ceramic Gauge Block Sets	297	ANSI Inch Thread Ring Gauges
284	Inch Individual Rectangular Gauge Blocks	298	ANSI Metric Thread Plug Gauges And Ring Gauges
285	Metric Individual Rectangular Gauge Blocks	299	JIS Thread Plug Gauges
286	Metric Individual Rectangular Ceramic Gauge Blocks	300	JIS Thread Ring Gauges
287	Caliper Calibration Gauge Sets	301	PT Tapered Pipe Thread plug Gauges and Ring Gauges
287	Micrometer Calibration Gauge Sets	302	Precision Inspection Gauge Ball Sets
288	Gauge Block Accessories	302	36 pcs Round Space Block Sets
290	Check Masters	303	Pin Gauge Sets
290	Optical Flats	305	Class X Pin Gage
291	Granite Surface Plates	306	Class Z Pin Gage
291	Granite Plate Stands	307	Pin Gauge Sets
292	Plug Gauges And Ring Gauges	308	Pin Gauge Handles
293	Thread Plug Gauges And Ring Gauges	308	Thread Measuring Wire Sets
295	Whitworth Pipe Thread Plug Gauges And Ring Gauges		
295	NPT Thread Plug Gauges And Ring Gauges		

Rectangular Steel Gauge Block Sets

650 Series



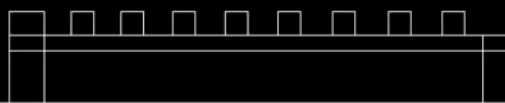
650-11-1

FEATURES

- Individual serial numbers on each block, regardless of grade
- A complete certificate of calibration traceable to the NIST or DIN showing the deviation of each block
- Mirror polished surfaces provide superior wringing characteristics

Inch			
Code No.	Blocks Per Set	Blocks Included In Set	Grade
650-01-0	81	1 Block: .050"	0
650-01-1		10 Blocks: .1000"-1.009" x .0001" Step	AS-1
650-01-2		49 Blocks: .101"-1.49" x .001" Step	AS-2
650-02-0	36	17 Blocks: .150"-.950" x .050" Step	0
650-02-1		4 Blocks: 1.000"-4.000" x 1.000" Step	AS-1
650-02-2		1 Block: .050"	AS-2

Metric			
Code No.	Blocks Per Set	Blocks Included In Set	Grade
650-11-0	122	1 Blocks: 1.0005mm	0
650-11-1		9 Blocks: 1.001-1.009mm x 0.001mm Step	1
650-11-2		49 Blocks: 1.01-1.49mm x 0.01mm Step	2
650-17-0	112	4 Blocks: 1.6-1.9mm x 0.1mm Step	0
650-17-1		49 Blocks: 0.5-24.5mm x 0.5mm Step	1
650-17-2		8 Blocks: 30-100mm x 10mm Step	2
650-12-0	103	2 Blocks: 25, 75mm	0
650-12-1		1 Blocks: 1.005mm	1
650-12-2		49 Blocks: 1.01-1.49mm x 0.01mm Step	2
650-18-0	88	49 Blocks: 0.5-24.5mm x 0.5mm Step	0
650-18-1		4 Blocks: 25-100mm x 25mm Step	1
650-18-2		1 Blocks: 1.0005mm	2
650-13-0	87	9 Blocks: 1.001-1.009mm x 0.001mm Step	0
650-13-1		49 Blocks: 1.01-1.49mm x 0.01mm Step	1
650-13-2		19 Blocks: 0.5-9.5mm x 0.5mm Step	2
650-19-0	76	10 Blocks: 10-100mm x 10mm Step	0
650-19-1		1 Blocks: 1.005mm	1
650-19-2		49 Blocks: 1.01-1.49mm x 0.01mm Step	2



Rectangular Steel Gauge Block Sets

650 Series

Metric			
Code No.	Blocks Per Set	Blocks Included In Set	Grade
650-20-0	56	1 Block: 0.5mm	0
650-20-1		9 Block: 1.001-1.009mm x 0.001mm Step	1
650-20-2		9 Block: 1.01-1.09mm x 0.01mm Step 9 Block: 1.1-1.9mm x 0.1mm Step 24 Block: 1-24mm x 1mm Step 4 Block: 25-100mm x 25mm Step	2
650-14-0	47	1 Block: 1.005mm	0
650-14-1		20 Block: 1.01-1.20mm x 0.01mm Step	1
650-14-2		7 Block: 1.3-1.9mm x 0.1mm Step 9 Block: 1-9mm x 1mm Step 10 Block: 10-100mm x 10mm Step	2
650-15-0	47	1 Block: 1.005mm	0
650-15-1		9 Block: 1.01-1.09mm x 0.01mm Step	1
650-15-2		9 Block: 1.1-1.9mm x 0.1mm Step 24 Block: 1-24mm x 1mm Step 4 Block: 25-100mm x 25mm Step	2
650-21-0	46	9 Block: 1.001-1.009mm x 0.001mm Step	0
650-21-1		9 Block: 1.01-1.09mm x 0.01mm Step	1
650-21-2		9 Block: 1.1-1.9mm x 0.1mm Step 9 Block: 1-9mm x 1mm Step 10 Block: 10-100mm x 10mm Step	2
650-22-0	34	1 Block: 1.0005mm	0
650-22-1		9 Block: 1.001-1.009mm x 0.001mm Step	1
650-22-2		9 Block: 1.01-1.09mm x 0.01mm Step 9 Block: 1.1-1.9mm x 0.1mm Step 6 Block: 1-5 x 1mm step, 10mm	2
650-16-0	32	1 Block: 1.005mm	0
650-16-1		9 Block: 1.01-1.09mm x 0.01mm Step	1
650-16-2		9 Block: 1.1-1.9mm x 0.1mm Step 9 Block: 1-9mm x 1mm Step 4 Block: 10mm, 20mm, 30mm, 50mm	2
650-23-0	24	9 Block: 1.01-1.09mm x 0.01mm Step	0
650-23-1		9 Block: 1.1-1.9mm x 0.1mm Step 5 Block: 1-5mm x 1mm Step 1 Block: 10mm	1
650-24-0	19	9 Block: 1.1-1.9mm x 0.1mm Step	0
650-24-1		5 Block: 1-5mm x 1mm Step 2 Block: 10-20mm x 10mm Step 3 Block: 25mm, 50mm, 100mm	1
650-25-0	10	5 Block: 1-5mm x 1mm Step	0
650-25-1		2 Block: 10-20mm x 10mm Step 3 Block: 25mm, 50mm, 100mm	1
650-35-0	8		0
650-35-1		125mm, 150, 175, 200, 250, 300, 400, 500mm	1
650-35-2			2

Metric			
Code No.	Blocks Per Set	Blocks Included In Set	Grade
650-26-0	18	9 Block: 0.991-0.999mm x 0.001mm Step	0
650-26-1		9 Block: 1.001-1.009mm x 0.001mm Step	1
650-26-2			2
650-27-0	9		0
650-27-1		9 Block: 1.001-1.009mm x 0.001mm Step	1
650-27-2			2
650-28-0	9		0
650-28-1		9 Block: 0.991-0.999mm x 0.001mm Step	1
650-28-2			2

Rectangular Tungsten Steel Gauge Block Sets 650 Series

Code No.	Blocks Per Set	Blocks Included In Set	Grade
650-93-0	87	9 Block: 1.001-1.009mm x 0.001mm Step 49 Block: 1.01-1.49mm x 0.01mm Step 19 Block: 0.5-9.5mm x 0.5mm Step 10 Block: 10-100mm x 10mm Step	0
650-93-1			1
650-92-0	103	1 Block: 1.005mm 49 Block: 1.01-1.49mm x 0.01mm Step 49 Block: 0.5-24.5mm x 0.5mm Step 4 Block: 25-100mm x 25mm Step	0
650-92-1			1
650-97-0	112	1 Block: 1.0005mm 9 Block: 1.001-1.009mm x 0.001mm Step 49 Block: 1.01-1.49mm x 0.01mm Step 49 Block: 0.5-24.5mm x 0.5mm Step 4 Block: 25-100mm x 25mm Step	0
650-97-1			1

Rectangular Ceramic Gauge Block Sets 650 Series



650-63-0

Metric			
Code No.	Blocks Per Set	Blocks Included In Set	Grade
650-61-0	122	1 Block: 1.0005mm 49 Blocks: 1.01-1.49mm x 0.01mm Step 49 Blocks: 0.5-24.5mm x 0.5mm Step 2 Blocks: 25, 75mm	0
650-61-1			1
650-67-0	112	1 Block: 1.0005mm 49 Blocks: 1.01-1.49mm x 0.01mm Step 4 Blocks: 25-100mm x 25mm Step	0
650-67-1			1
650-62-0	103	1 Block: 1.005mm 49 Blocks: 0.5-24.5mm x 0.5mm Step	0
650-62-1			1
650-63-0	87	9 Blocks: 1.001-1.009mm x 0.001mm Step 19 Blocks: 0.5-9.5mm x 0.5mm Step	0
650-63-1			1
650-64-0	47	1 Block: 1.005mm 7 Block: 1.3-1.9mm x 0.1mm Step 10 Block: 10-100mm x 10mm Step	0
650-64-1			1
650-66-0	32	1 Block: 1.005mm 9 Block: 1.1-1.9mm x 0.1mm Step 4 Block: 10mm, 20mm, 30mm, 50mm	0
650-66-1			1

Inch Individual Rectangular Gauge Blocks

65X Series



651-87-0

FEATURES

- ASME/DIN/JIS/GB Standard
- ASME Grade 0 is available for both Steel and Ceramic individuals
- ASME Grade 1 is only available for Steel

Steel		Ceramic	
Grade 0	Grade 1	Grade 0	Size
651-01-0	651-01-1	655-01-0	.05"
651-02-0	651-02-1	655-02-0	.05005"
651-03-0	651-03-1	655-03-0	.0503"
651-04-0	651-04-1	655-04-0	.0506"
651-05-0	651-05-1	655-05-0	.0507"
651-06-0	651-06-1	655-06-0	.0508"
651-07-0	651-07-1	655-07-0	.0509"
651-08-0	651-08-1	655-08-0	.052"
651-09-0	651-09-1	655-09-0	.053"
651-10-0	651-10-1	655-10-0	.054"
651-11-0	651-11-1	655-11-0	.055"
651-12-0	651-12-1	655-12-0	.056"
651-13-0	651-13-1	655-13-0	.058"
651-14-0	651-14-1	655-14-0	.06"
651-15-0	651-15-1	655-15-0	.1"
651-16-0	651-16-1	655-16-0	.10005"
651-17-0	651-17-1	655-17-0	.1001"
651-18-0	651-18-1	655-18-0	.1002"
651-19-0	651-19-1	655-19-0	.1003"
651-20-0	651-20-1	655-20-0	.1004"
651-21-0	651-21-1	655-21-0	.1005"
651-22-0	651-22-1	655-22-0	.1006"
651-23-0	651-23-1	655-23-0	.1007"
651-24-0	651-24-1	655-24-0	.1008"
651-25-0	651-25-1	655-25-0	.1009"
651-26-0	651-26-1	655-26-0	.101"
651-27-0	651-27-1	655-27-0	.102"
651-28-0	651-28-1	655-28-0	.103"
651-29-0	651-29-1	655-29-0	.104"
651-30-0	651-30-1	655-30-0	.105"
651-31-0	651-31-1	655-31-0	.106"
651-32-0	651-32-1	655-32-0	.107"
651-33-0	651-33-1	655-33-0	.108"
651-34-0	651-34-1	655-34-0	.109"
651-35-0	651-35-1	655-35-0	.11"
651-36-0	651-36-1	655-36-0	.111"

Steel		Ceramic	
Grade 0	Grade 1	Grade 0	Size
651-37-0	651-37-1	655-37-0	.112"
651-38-0	651-38-1	655-38-0	.113"
651-39-0	651-39-1	655-39-0	.114"
651-40-0	651-40-1	655-40-0	.115"
651-41-0	651-41-1	655-41-0	.116"
651-42-0	651-42-1	655-42-0	.117"
651-43-0	651-43-1	655-43-0	.118"
651-44-0	651-44-1	655-44-0	.119"
651-45-0	651-45-1	655-45-0	.12"
651-46-0	651-46-1	655-46-0	.121"
651-47-0	651-47-1	655-47-0	.122"
651-48-0	651-48-1	655-48-0	.123"
651-49-0	651-49-1	655-49-0	.124"
651-50-0	651-50-1	655-50-0	.125"
651-51-0	651-51-1	655-51-0	.126"
651-52-0	651-52-1	655-52-0	.127"
651-53-0	651-53-1	655-53-0	.128"
651-54-0	651-54-1	655-54-0	.129"
651-55-0	651-55-1	655-55-0	.13"
651-56-0	651-56-1	655-56-0	.131"
651-57-0	651-57-1	655-57-0	.132"
651-58-0	651-58-1	655-58-0	.133"
651-59-0	651-59-1	655-59-0	.134"
651-60-0	651-60-1	655-60-0	.135"
651-61-0	651-61-1	655-61-0	.136"
651-62-0	651-62-1	655-62-0	.137"
651-63-0	651-63-1	655-63-0	.138"
651-64-0	651-64-1	655-64-0	.139"
651-65-0	651-65-1	655-65-0	.14"
651-66-0	651-66-1	655-66-0	.141"
651-67-0	651-67-1	655-67-0	.142"
651-68-0	651-68-1	655-68-0	.143"
651-69-0	651-69-1	655-69-0	.144"
651-70-0	651-70-1	655-70-0	.145"
651-71-0	651-71-1	655-71-0	.146"
651-72-0	651-72-1	655-72-0	.147"

Steel		Ceramic	
Grade 0	Grade 1	Grade 0	Size
651-73-0	651-73-1	655-73-0	.148"
651-74-0	651-74-1	655-74-0	.149"
651-75-0	651-75-1	655-75-0	.15"
651-76-0	651-76-1	655-76-0	.16"
651-77-0	651-77-1	655-77-0	.17"
651-78-0	651-78-1	655-78-0	.18"
651-79-0	651-79-1	655-79-0	.19"
651-80-0	651-80-1	655-80-0	.2"
651-81-0	651-81-1	655-81-0	.21"
651-82-0	651-82-1	655-82-0	.25"
651-83-0	651-83-1	655-83-0	.3"
651-84-0	651-84-1	655-84-0	.35"
651-85-0	651-85-1	655-85-0	.4"
651-86-0	651-86-1	655-86-0	.45"
651-87-0	651-87-1	655-87-0	.5"
651-88-0	651-88-1	655-88-0	.55"
651-89-0	651-89-1	655-89-0	.6"
651-90-0	651-90-1	655-90-0	.65"
651-91-0	651-91-1	655-91-0	.7"
651-92-0	651-92-1	655-92-0	.75"
651-93-0	651-93-1	655-93-0	.8"
651-94-0	651-94-1	655-94-0	.85"
651-95-0	651-95-1	655-95-0	.9"
651-96-0	651-96-1	655-96-0	.95"
651-97-0	651-97-1	655-97-0	1"
651-98-0	651-98-1	655-98-0	2"
651-99-0	651-99-1	655-99-0	3"
652-00-0	652-00-1	656-00-0	4"
652-01-0	652-01-1	-	5"
652-02-0	652-02-1	-	6"
652-03-0	652-03-1	-	7"
652-04-0	652-04-1	-	8"
652-05-0	652-05-1	-	10"
652-06-0	652-06-1	-	12"
652-07-0	652-07-1	-	16"
652-08-0	652-08-1	-	20"

Metric Individual Rectangular Gauge Blocks

65X Series



653-82-1

FEATURES

- ASME/DIN/JIS/GB Standard
- Steel Grade 0 and Grade 1

Code No.		
Grade 0	Grade 1	Size
653-01-0	653-01-1	0.5mm
653-02-0	653-02-1	1mm
653-03-0	653-03-1	1.001mm
653-04-0	653-04-1	1.002mm
653-05-0	653-05-1	1.003mm
653-06-0	653-06-1	1.004mm
653-07-0	653-07-1	1.005mm
653-08-0	653-08-1	1.006mm
653-09-0	653-09-1	1.007mm
653-10-0	653-10-1	1.008mm
653-11-0	653-11-1	1.009mm
653-12-0	653-12-1	1.01mm
653-13-0	653-13-1	1.02mm
653-14-0	653-14-1	1.03mm
653-15-0	653-15-1	1.04mm
653-16-0	653-16-1	1.05mm
653-17-0	653-17-1	1.06mm
653-18-0	653-18-1	1.07mm
653-19-0	653-19-1	1.08mm
653-20-0	653-20-1	1.09mm
653-21-0	653-21-1	1.1mm
653-22-0	653-22-1	1.11mm
653-23-0	653-23-1	1.12mm
653-24-0	653-24-1	1.13mm
653-25-0	653-25-1	1.14mm
653-26-0	653-26-1	1.15mm
653-27-0	653-27-1	1.16mm
653-28-0	653-28-1	1.17mm
653-29-0	653-29-1	1.18mm
653-30-0	653-30-1	1.19mm
653-31-0	653-31-1	1.2mm
653-32-0	653-32-1	1.21mm
653-33-0	653-33-1	1.22mm
653-34-0	653-34-1	1.23mm
653-35-0	653-35-1	1.24mm
653-36-0	653-36-1	1.25mm
653-37-0	653-37-1	1.26mm
653-38-0	653-38-1	1.27mm
653-39-0	653-39-1	1.28mm
653-40-0	653-40-1	1.29mm
653-41-0	653-41-1	1.3mm
653-42-0	653-42-1	1.31mm
653-43-0	653-43-1	1.32mm
653-44-0	653-44-1	1.33mm
653-45-0	653-45-1	1.34mm

Code No.		
Grade 0	Grade 1	Size
653-46-0	653-46-1	1.35mm
653-47-0	653-47-1	1.36mm
653-48-0	653-48-1	1.37mm
653-49-0	653-49-1	1.38mm
653-50-0	653-50-1	1.39mm
653-51-0	653-51-1	1.4mm
653-52-0	653-52-1	1.41mm
653-53-0	653-53-1	1.42mm
653-54-0	653-54-1	1.43mm
653-55-0	653-55-1	1.44mm
653-56-0	653-56-1	1.45mm
653-57-0	653-57-1	1.46mm
653-58-0	653-58-1	1.47mm
653-59-0	653-59-1	1.48mm
653-60-0	653-60-1	1.49mm
653-61-0	653-61-1	1.5mm
653-62-0	653-62-1	1.6mm
653-63-0	653-63-1	1.7mm
653-64-0	653-64-1	1.8mm
653-65-0	653-65-1	1.9mm
653-66-0	653-66-1	2mm
653-67-0	653-67-1	2.5mm
653-68-0	653-68-1	3mm
653-69-0	653-69-1	3.5mm
653-70-0	653-70-1	4mm
653-71-0	653-71-1	4.5mm
653-72-0	653-72-1	5mm
653-73-0	653-73-1	5.5mm
653-74-0	653-74-1	6mm
653-75-0	653-75-1	6.5mm
653-76-0	653-76-1	7mm
653-77-0	653-77-1	7.5mm
653-78-0	653-78-1	8mm
653-79-0	653-79-1	8.5mm
653-80-0	653-80-1	9mm
653-81-0	653-81-1	9.5mm
653-82-0	653-82-1	10mm
653-83-0	653-83-1	10.5mm
653-84-0	653-84-1	11mm
653-85-0	653-85-1	11.5mm
653-86-0	653-86-1	12mm
653-87-0	653-87-1	12.5mm
653-88-0	653-88-1	13mm
653-89-0	653-89-1	13.5mm
653-90-0	653-90-1	14mm

Code No.		
Grade 0	Grade 1	Size
653-91-0	653-91-1	14.5mm
653-92-0	653-92-1	15mm
653-93-0	653-93-1	15.5mm
653-94-0	653-94-1	16mm
653-95-0	653-95-1	16.5mm
653-96-0	653-96-1	17mm
653-97-0	653-97-1	17.5mm
653-98-0	653-98-1	18mm
653-99-0	653-99-1	18.5mm
654-00-0	654-00-1	19mm
654-01-0	654-01-1	19.5mm
654-02-0	654-02-1	20mm
654-03-0	654-03-1	20.5mm
654-04-0	654-04-1	21mm
654-05-0	654-05-1	21.5mm
654-06-0	654-06-1	22mm
654-07-0	654-07-1	22.5mm
654-08-0	654-08-1	23mm
654-09-0	654-09-1	23.5mm
654-10-0	654-10-1	24mm
654-11-0	654-11-1	24.5mm
654-12-0	654-12-1	25mm
654-13-0	654-13-1	30mm
654-14-0	654-14-1	40mm
654-15-0	654-15-1	50mm
654-16-0	654-16-1	60mm
654-17-0	654-17-1	70mm
654-18-0	654-18-1	75mm
654-19-0	654-19-1	80mm
654-20-0	654-20-1	90mm
654-21-0	654-21-1	100mm
-	654-22-1	125mm
-	654-23-1	150mm
-	654-24-1	175mm
-	654-25-1	200mm
-	654-27-1	250mm
-	654-29-1	300mm
-	654-31-1	400mm
-	654-33-1	500mm
-	654-35-1	600mm
-	654-37-1	700mm
-	654-39-1	800mm
-	654-41-1	900mm
-	654-43-1	1000mm
-	-	-

Metric Individual Rectangular Ceramic Gauge Blocks

657/658 Series



658-15-0

FEATURES

- DIN Standard
- Ceramic Grade 0

Code No.	Size	Code No.	Size	Code No.	Size
657-01-0	0.5mm	657-42-0	1.31mm	657-83-0	10.5mm
657-02-0	1mm	657-43-0	1.32mm	657-84-0	11mm
657-03-0	1.001mm	657-44-0	1.33mm	657-85-0	11.5mm
657-04-0	1.002mm	657-45-0	1.34mm	657-86-0	12mm
657-05-0	1.003mm	657-46-0	1.35mm	657-87-0	12.5mm
657-06-0	1.004mm	657-47-0	1.36mm	657-88-0	13mm
657-07-0	1.005mm	657-48-0	1.37mm	657-89-0	13.5mm
657-08-0	1.006mm	657-49-0	1.38mm	657-90-0	14mm
657-09-0	1.007mm	657-50-0	1.39mm	657-91-0	14.5mm
657-10-0	1.008mm	657-51-0	1.4mm	657-92-0	15mm
657-11-0	1.009mm	657-52-0	1.41mm	657-93-0	15.5mm
657-12-0	1.01mm	657-53-0	1.42mm	657-94-0	16mm
657-13-0	1.02mm	657-54-0	1.43mm	657-95-0	16.5mm
657-14-0	1.03mm	657-55-0	1.44mm	657-96-0	17mm
657-15-0	1.04mm	657-56-0	1.45mm	657-97-0	17.5mm
657-16-0	1.05mm	657-57-0	1.46mm	657-98-0	18mm
657-17-0	1.06mm	657-58-0	1.47mm	657-99-0	18.5mm
657-18-0	1.07mm	657-59-0	1.48mm	658-00-0	19mm
657-19-0	1.08mm	657-60-0	1.49mm	658-01-0	19.5mm
657-20-0	1.09mm	657-61-0	1.5mm	658-02-0	20mm
657-21-0	1.1mm	657-62-0	1.6mm	658-03-0	20.5mm
657-22-0	1.11mm	657-63-0	1.7mm	658-04-0	21mm
657-23-0	1.12mm	657-64-0	1.8mm	658-05-0	21.5mm
657-24-0	1.13mm	657-65-0	1.9mm	658-06-0	22mm
657-25-0	1.14mm	657-66-0	2mm	658-07-0	22.5mm
657-26-0	1.15mm	657-67-0	2.5mm	658-08-0	23mm
657-27-0	1.16mm	657-68-0	3mm	658-09-0	23.5mm
657-28-0	1.17mm	657-69-0	3.5mm	658-10-0	24mm
657-29-0	1.18mm	657-70-0	4mm	658-11-0	24.5mm
657-30-0	1.19mm	657-71-0	4.5mm	658-12-0	25mm
657-31-0	1.2mm	657-72-0	5mm	658-13-0	30mm
657-32-0	1.21mm	657-73-0	5.5mm	658-14-0	40mm
657-33-0	1.22mm	657-74-0	6mm	658-15-0	50mm
657-34-0	1.23mm	657-75-0	6.5mm	658-16-0	60mm
657-35-0	1.24mm	657-76-0	7mm	658-17-0	70mm
657-36-0	1.25mm	657-77-0	7.5mm	658-18-0	75mm
657-37-0	1.26mm	657-78-0	8mm	658-19-0	80mm
657-38-0	1.27mm	657-79-0	8.5mm	658-20-0	90mm
657-39-0	1.28mm	657-80-0	9mm	658-21-0	100mm
657-40-0	1.29mm	657-81-0	9.5mm	-	-
657-41-0	1.3mm	657-82-0	10mm	-	-

Caliper Calibration Gauge Sets

659 Series



659-31-1

FEATURES

- DIN/GB Standard
- Material: Hardened Steel
- Grades 0 and 1 are available

For DIN Standard			
Code No.	Individual Blocks In Set	Range	Grade
659-31-1	30.0mm, 41.3mm, 131.4mm Master Ring: Ø4.0mm, Ø25.0mm	0-150mm	1
659-32-0	41.3mm, 131.4mm, 243.5mm Master Ring: Ø4.0mm, Ø25.0mm	0-300mm	0

For GB Standard			
Code No.	Individual Blocks In Set	Range	Grade
659-41-1	10mm, 20mm, 20mm, 41.2mm, 81.5mm, 121.8mm	0-150mm	1
659-42-1	10mm, 20mm, 20mm, 51.2mm, 121.5mm, 191.8mm	0-200mm	1
659-43-1	10mm, 20mm, 20mm, 101.2mm, 201.5mm, 291.8mm	0-300mm	1
659-40-1	10mm, 20mm, 20mm, 41.2mm, 51.2mm, 81.5mm, 101.2mm, 121.5mm, 121.8mm, 191.8mm, 201.5mm, 291.8mm	0-300mm	1

Micrometer Calibration Gauge Sets

659 Series



659-21-1

FEATURES

- DIN/GB Standard
- Steel, Grade 1

Steel Set For DIN Standard			
Code No.	Blocks In Set	Range	Grade
659-21-1	5.1mm, 10.3mm, 15.0mm, 20.2mm, 25.0mm	0-25mm	1

Steel Set For GB Standard			
Code No.	Blocks In Set	Range	Grade
659-22-1	5.12mm, 10.24mm, 15.36mm, 21.5mm, 25.0mm	0-25mm	1
659-23-1	5.12mm, 10.24mm, 15.36mm, 21.5mm, 25.0mm, 30.12mm, 35.24mm, 40.36mm, 46.5mm, 50.0mm, 55.12mm, 60.24mm, 65.36mm, 71.5mm, 75.0mm, 80.12mm, 85.24mm, 90.36mm, 96.5mm, 100mm	0-100mm	1

Gauge Block Accessories

660 Series



660-01-1



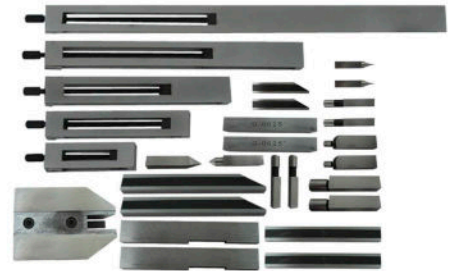
660-10-3



660-12-7



660-05-0



660-01-1



660-11-3



660-11-2



660-11-1



660-12-3



660-12-4

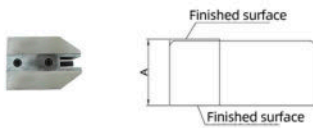
FEATURES

- The gauge block accessory set is used to firmly connect rectangular gauge blocks with the gauge holding devices. A series of universal precision measuring surfaces and base are provided to increase the measurement flexibility

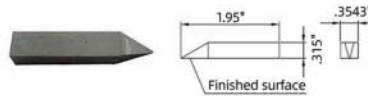
			12 pcs Set	17 pcs Set
			660-01-0	660-01-1
Code No.	Description	Dimensions	Individuals In Set	Individuals In Set
660-10-1	Gauge Holder	0-50mm	1 pc	1 pc
660-10-2		0-100mm	1 pc	1 pc
660-10-3		100-200mm	1 pc	1 pc
660-11-1	Cylinder Jaws	R2 x 10mm	1 pair	1 pair
660-11-2		R5 x 15mm	1 pair	1 pair
660-11-3		R10 x 40mm	1 pair	1 pair
660-12-3	Scriber	15mm	1 pc	1 pc
660-12-4	Center Point	8 x 8mm	1 pc	1 pc
660-12-7	Parallel Jaw	8 x 19 x 100mm	-	1 pair
660-05-0	Base Block	-	1 pc	1 pc
660-06-2	Bevel Jaw	60mm	-	1 pair
660-06-4	Straight Edge	100mm	-	1 pc

Gauge Block Accessories

660 Series



A. Base Block



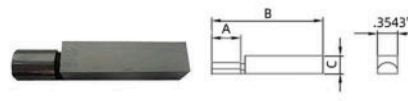
B. Scriber Point



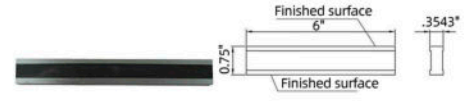
C. Center Point



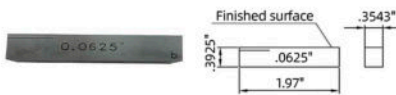
D. Points



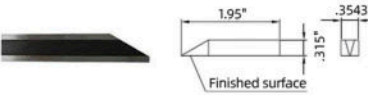
E. Cylinder Jaw



F. Flat Jaw



G. Jaws with Ref. Line



H. Jaws with Beveled End



I. Holder

unit: inch

27 pcs Set		14 pcs Set				
Individuals In Set	Individuals In Set	Code No.	#	Description / Use	Dimension	Accuracy
1 pc	-	660-05-5	A	Base Block	4 x 2-3/4 x 1.7"	Height: ± 0.0002 "
1 pc	-	660-13-1	B	Scriber Point	1.950" Length	Flatness: ± 0.00002 "/2"
1 pc	-	660-13-4	C	Center Point	2.05" Length	Concentricity: ± 0.0004 "
1 pair	-	660-13-5	D	Points	2.05" Length	Concentricity: ± 0.0002 "
					Radius x A x B x C	Radius: ± 0.00003 "
1 pair	1 pair	660-14-1	E	Cylinder Jaws	.1" x .236" x 1.58" x .315"	Pair: ± 0.00004 "
1 pair	1 pair	660-14-2			.2" x .507" x 1.965" x .315"	
1 pair	1 pair	660-14-3			.25" x .516" x 2.366" x .315"	
1 pair	1 pair	660-14-4			.5" x .800" x 2.945" x .512"	
1 pair	-	660-14-5			.75" x 1.2" x 4.92" x .768"	
1 pair	-	660-13-7	F	Flat Jaws	.750" Height, 6" Length	Parallelism: ± 0.00004 "
1 pair	-	660-14-6	G	Jaws With Ref. Line	.0625" Ref. Line	Line Height: ± 0.0002 "
1 pair	1 pair	660-14-8	H	Jaws With Beveled End	.750" Height, 4" Length	Flatness: ± 0.00002 "/2"
1 pair	1 pair	660-14-9			.750" Height, 6" Length	Flatness: ± 0.00002 "/2"
1 pc	1 pc	660-15-1	I	Holders	2.250" Capacity, 4.175" Length	Working Surfaces
1 pc	-	660-15-2			4.000" Capacity, 6.5" Length	Accurately Ground
1 pc	1 pc	660-15-3			6.000" Capacity, 8.5" Length	And Lapped
1 pc	-	660-15-4			10.000" Capacity, 12" Length	

Check Masters

660/661 Series



661-12-0



660-12-0

FEATURES

- Check masters are used to provide the incremental positioning error during the calibration of coordinate measuring machines or machine tools.
- Can be used in either vertical or horizontal position.
- The individual gauging surfaces are made of zirconium based ceramic that resist corrosion and provide stability to size change over time.

Horizontal	Vertical	Inch			
Code No.	Code No.	Range	Pitch	Accuracy	Parallelism
660-12-1	661-12-1	12"	1"/.5"	±.00005"	.00004"
660-24-1	661-24-1	24"	1"/.5"	±.00007"	.00006"

Horizontal	Vertical	Metric			
Code No.	Code No.	Range	Pitch	Accuracy	Parallelism
660-12-0	661-12-0	300mm	20mm/10mm	±1.2µm	1µm
660-24-0	661-24-0	600mm	20mm/10mm	±1.8µm	1.5µm

Customized pitch for special purpose is available also

Optical Flats

605 Series



605-51-1



15.62



15.75



15.87



16.00

605-52-1

FEATURES

- Used to verify the flatness and parallelism of micrometer measuring faces
- Each set has four individual thicknesses as per chart
- Flatness: 0.1µm. Parallelism: 0.2µm

Optical Flats		
Code No.	Dimensions	Flatness
605-51-1	Ø45 x 15mm	0.03µm
605-51-3	Ø60 x 20mm	0.03µm

Optical Parallels Diameter: 30mm		
Code No.	Micrometers Range	Dimensions
605-52-1	0-25mm	15.62, 15.75, 15.87, 16.00mm
605-52-2	25-50mm	40.62, 40.75, 40.87, 41.00mm
605-52-3	50-75mm	65.62, 65.75, 65.87, 66.00mm
605-52-4	75-100mm	90.62, 90.75, 90.87, 91.00mm
605-52-5	0-25mm	12.00, 12.12, 12.25, 12.37mm
605-52-6	25-50mm	25.00, 25.12, 25.25, 25.37mm

Granite Surface Plates

630/631 Series



631-10-9

FEATURES

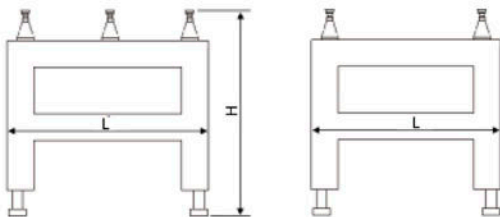
- Material: Natural granite black in colour provides stability and longevity
- Each surface plate is shipped with a certificate of accuracy which guarantees its accuracy
- Granite surface plates are more common than cast iron plates due to the positive attributes
- Granite plate stands is not included

Grade AA	Inch
Code No.	Size
631-10-9	8 x 12 x 3"
631-12-9	9 x 12 x 3"
631-14-9	12 x 12 x 3"
631-16-9	12 x 18 x 4"
631-18-9	18 x 18 x 4"
631-20-9	18 x 24 x 4"
631-22-9	24 x 24 x 5"
631-24-9	24 x 30 x 5"
631-26-9	24 x 36 x 6"
631-28-9	24 x 48 x 8"
631-30-9	30 x 36 x 6"
631-32-9	30 x 48 x 8"
631-34-9	30 x 60 x 12"
631-36-9	36 x 36 x 6"
631-38-9	36 x 48 x 8"

Grade 00	Metric
Code No.	Size
630-09-9	400 x 400 x 100mm
630-10-9	300 x 300 x 100mm
630-12-9	450 x 300 x 100mm
630-14-9	600 x 450 x 100mm
630-16-9	600 x 600 x 130mm
630-18-9	750 x 500 x 130mm
630-20-9	1000 x 750 x 150mm
630-22-9	1000 x 1000 x 150mm
630-24-9	1500 x 1000 x 200mm
630-26-9	2000 x 1000 x 250mm
630-28-9	2000 x 1500 x 300mm
630-30-9	2000 x 2000 x 300mm
630-32-9	3000 x 1500 x 400mm
630-34-9	3000 x 2000 x 500mm

Granite Plate Stands

638 Series



Code No.	Granite Surface Plate Size	L	W	H
638-03-0	600 x 450 x 100mm	420mm	350mm	700mm
638-04-0	600 x 600 x 130mm	420mm	420mm	700mm
638-05-0	750 x 500 x 130mm	560mm	350mm	700mm
638-06-0	1000 x 750 x 150mm	700mm	525mm	650mm
638-07-0	1000 x 1000 x 150mm	700mm	700mm	650mm
638-08-0	1500 x 1000 x 200mm	1050mm	700mm	600mm

Plug Gauges And Ring Gauges

670/675 Series



670-10-7



675-10-0

FEATURES

- Hardened steel
- Plug Gauge Accuracy according to DIN 7162/7164
- Plug Gauge Sizes according to DIN 2245
- Ring Gauge Accuracy according to DIN 2250

Plug Gauges	
H7 Code No.	Size
670-02-7	2mm
670-03-7	3mm
670-04-7	4mm
670-05-7	5mm
670-06-7	6mm
670-07-7	7mm
670-08-7	8mm
670-09-7	9mm
670-10-7	10mm
670-11-7	11mm
670-12-7	12mm
670-13-7	13mm
670-14-7	14mm
670-15-7	15mm
670-16-7	16mm
670-17-7	17mm
670-18-7	18mm
670-19-7	19mm
670-20-7	20mm

H7 Code No.	Size
670-21-7	21mm
670-22-7	22mm
670-23-7	23mm
670-24-7	24mm
670-25-7	25mm
670-26-7	26mm
670-27-7	27mm
670-28-7	28mm
670-30-7	30mm
670-32-7	32mm
670-34-7	34mm
670-35-7	35mm
670-36-7	36mm
670-37-7	37mm
670-38-7	38mm
670-40-7	40mm
670-42-7	42mm
670-44-7	44mm
670-45-7	45mm

H7 Code No.	Size
670-46-7	46mm
670-47-7	47mm
670-48-7	48mm
670-50-7	50mm
670-52-7	52mm
670-55-7	55mm
670-60-7	60mm
670-62-7	62mm
670-65-7	65mm
670-68-7	68mm
670-70-7	70mm
670-72-7	72mm
670-75-7	75mm
670-80-7	80mm
670-85-7	85mm
670-90-7	90mm
670-95-7	95mm
670-98-7	98mm
671-00-7	100mm

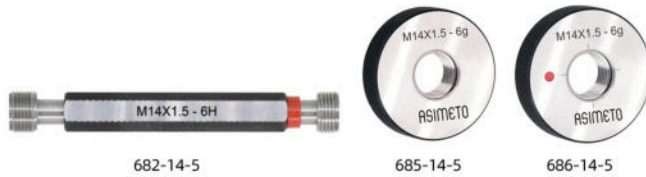
Ring Gauges	
Code No.	Size
675-02-0	2.0mm
675-02-2	2.2mm
675-02-5	2.5mm
675-02-8	2.8mm
675-03-0	3.0mm
675-03-5	3.5mm
675-04-0	4.0mm
675-04-5	4.5mm
675-05-0	5.0mm
675-06-0	6.0mm
675-07-0	7.0mm
675-08-0	8.0mm
675-09-0	9.0mm
675-10-0	10mm
675-11-0	11mm
675-12-0	12mm
675-13-0	13mm
675-14-0	14mm
675-15-0	15mm
675-16-0	16mm
675-17-0	17mm
675-18-0	18mm
675-19-0	19mm
675-20-0	20mm
675-21-0	21mm

Code No.	Size
675-22-0	22mm
675-23-0	23mm
675-24-0	24mm
675-25-0	25mm
675-26-0	26mm
675-27-0	27mm
675-28-0	28mm
675-30-0	30mm
675-32-0	32mm
675-33-0	33mm
675-34-0	34mm
675-35-0	35mm
675-36-0	36mm
675-37-0	37mm
675-38-0	38mm
675-40-0	40mm
675-42-0	42mm
675-44-0	44mm
675-45-0	45mm
675-46-0	46mm
675-47-0	47mm
675-48-0	48mm
675-50-0	50mm
675-52-0	52mm
675-55-0	55mm

Code No.	Size
675-58-0	58mm
675-60-0	60mm
675-62-0	62mm
675-65-0	65mm
675-68-0	68mm
675-70-0	70mm
675-72-0	72mm
675-75-0	75mm
675-80-0	80mm
675-82-0	82mm
675-85-0	85mm
675-88-0	88mm
675-90-0	90mm
675-92-0	92mm
675-95-0	95mm
675-98-0	98mm
676-00-0	100mm
676-12-5	125mm
676-50-0	150mm
676-17-5	175mm
676-00-1	200mm
676-22-5	225mm
676-50-1	250mm
676-27-5	275mm

Thread Plug Gauges And Ring Gauges

68X Series



FEATURES

- ISO-Metric Thread
- Per DIN13

ISO-Metric Coarse Thread

Plug Gauge 6H "GO and NO GO"	Ring Gauge "GO" 6g	Ring Gauge "NO GO" 6g	Ring Gauge 6g "GO and NO GO"	Size
680-02-0	683-02-1	684-02-0	683-02-1SET	M2
680-02-5	683-02-6	684-02-5	683-02-6SET	M2.5
680-03-0	683-03-1	684-03-0	683-03-1SET	M3
680-03-5	683-03-6	684-03-5	683-03-6SET	M3.5
680-04-2	683-04-1	684-04-0	683-04-1SET	M4
680-05-2	683-05-1	684-05-0	683-05-1SET	M5
680-06-2	683-06-1	684-06-0	683-06-1SET	M6
680-08-2	683-08-1	684-08-0	683-08-1SET	M8
680-09-2	683-09-1	684-09-0	683-09-1SET	M9
680-10-2	683-10-1	684-10-0	683-10-1SET	M10
680-12-2	683-12-1	684-12-0	683-12-1SET	M12
680-14-2	683-14-1	684-14-0	683-14-1SET	M14
680-16-2	683-16-1	684-16-0	683-16-1SET	M16
680-18-2	683-18-1	684-18-0	683-18-1SET	M18

Plug Gauge 6H	Ring Gauge "GO" 6g	Ring Gauge "NO GO" 6g	Ring Gauge 6g "GO and NO GO"	Size
680-20-2	683-20-1	684-20-0	683-20-1SET	M20
680-22-2	683-22-1	684-22-0	683-22-1SET	M22
680-24-2	683-24-1	684-24-0	683-24-1SET	M24
680-27-2	683-27-1	684-27-0	683-27-1SET	M27
680-30-2	683-30-1	684-30-0	683-30-1SET	M30
680-33-2	683-33-1	684-33-0	683-33-1SET	M33
680-36-2	683-36-1	684-36-0	683-36-1SET	M36
680-39-2	683-39-1	684-39-0	683-39-1SET	M39
680-42-2	683-42-1	684-42-0	683-42-1SET	M42
680-45-2	683-45-1	684-45-0	683-45-1SET	M45
680-48-2	683-48-1	684-48-0	683-48-1SET	M48
680-52-2	683-52-1	684-52-0	683-52-1SET	M52
680-56-2	683-56-1	684-56-0	683-56-1SET	M56
680-60-2	683-60-1	684-60-0	683-60-1SET	M60

ISO-Metric Fine Thread

Plug Gauge 6H	Ring Gauge "GO" 6g	Ring Gauge "NO GO" 6g	Ring Gauge 6g "GO and NO GO"	Size
682-02-0	685-02-0	686-02-0	685-02-0SET	M2.0 x 0.35
682-02-8	685-02-8	686-02-8	685-02-8SET	M2.2 x 0.35
682-02-9	685-02-9	686-02-9	685-02-9SET	M2.5 x 0.35
682-03-0	685-03-0	686-03-0	685-03-0SET	M3.0 x 0.35
682-03-9	685-03-9	686-03-9	685-03-9SET	M3.5 x 0.35
682-04-0	685-04-0	686-04-0	685-04-0SET	M4.0 x 0.35
682-04-9	685-04-9	686-04-9	685-04-9SET	M4.5 x 0.35
682-05-0	685-05-0	686-05-0	685-05-0SET	M5.0 x 0.35
682-06-0	685-06-0	686-06-0	685-06-0SET	M6.0 x 0.35
682-04-1	685-04-1	686-04-1	685-04-1SET	M4.0 x 0.5
682-05-1	685-05-1	686-05-1	685-05-1SET	M5.0 x 0.5
682-06-1	685-06-1	686-06-1	685-06-1SET	M6.0 x 0.5
682-08-1	685-08-1	686-08-1	685-08-1SET	M8.0 x 0.5
682-10-1	685-10-1	686-10-1	685-10-1SET	M10 x 0.5
682-12-1	685-12-1	686-12-1	685-12-1SET	M12 x 0.5
682-06-2	685-06-2	686-06-2	685-06-2SET	M6.0 x 0.75
682-07-2	685-07-2	686-07-2	685-07-2SET	M7.0 x 0.75
682-08-2	685-08-2	686-08-2	685-08-2SET	M8.0 x 0.75
682-10-2	685-10-2	686-10-2	685-10-2SET	M10 x 0.75
682-12-2	685-12-2	686-12-2	685-12-2SET	M12 x 0.75
682-08-3	685-08-3	686-08-3	685-08-3SET	M8.0 x 1
682-09-3	685-09-3	686-09-3	685-09-3SET	M9.0 x 1
682-10-3	685-10-3	686-10-3	685-10-3SET	M10 x 1
682-11-3	685-11-3	686-11-3	685-11-3SET	M11 x 1
682-12-3	685-12-3	686-12-3	685-12-3SET	M12 x 1
682-14-3	685-14-3	686-14-3	685-14-3SET	M14 x 1
682-16-3	685-16-3	686-16-3	685-16-3SET	M16 x 1
682-18-3	685-18-3	686-18-3	685-18-3SET	M18 x 1

Plug Gauge 6H	Ring Gauge "GO" 6g	Ring Gauge "NO GO" 6g	Ring Gauge 6g "GO and NO GO"	Size
682-20-3	685-20-3	686-20-3	685-20-3SET	M20 x 1
682-21-3	685-21-3	686-21-3	685-21-3SET	M21 x 1
682-22-3	685-22-3	686-22-3	685-22-3SET	M22 x 1
682-23-3	685-23-3	686-23-3	685-23-3SET	M23 x 1
682-24-3	685-24-3	686-24-3	685-24-3SET	M24 x 1
682-25-3	685-25-3	686-25-3	685-25-3SET	M25 x 1
682-26-3	685-26-3	686-26-3	685-26-3SET	M26 x 1
682-27-3	685-27-3	686-27-3	685-27-3SET	M27 x 1
682-28-3	685-28-3	686-28-3	685-28-3SET	M28 x 1
682-30-3	685-30-3	686-30-3	685-30-3SET	M30 x 1
682-32-3	685-32-3	686-32-3	685-32-3SET	M32 x 1
682-33-3	685-33-3	686-33-3	685-33-3SET	M33 x 1
682-34-3	685-34-3	686-34-3	685-34-3SET	M34 x 1
682-35-3	685-35-3	686-35-3	685-35-3SET	M35 x 1
682-36-3	685-36-3	686-36-3	685-36-3SET	M36 x 1
682-38-3	685-38-3	686-38-3	685-38-3SET	M38 x 1
682-39-3	685-39-3	686-39-3	685-39-3SET	M39 x 1
682-40-3	685-40-3	686-40-3	685-40-3SET	M40 x 1
682-42-3	685-42-3	686-42-3	685-42-3SET	M42 x 1
682-45-3	685-45-3	686-45-3	685-45-3SET	M45 x 1
682-48-3	685-48-3	686-48-3	685-48-3SET	M48 x 1
682-50-3	685-50-3	686-50-3	685-50-3SET	M50 x 1
682-52-3	685-52-3	686-52-3	685-52-3SET	M52 x 1
682-55-3	685-55-3	686-55-3	685-55-3SET	M55 x 1
682-56-3	685-56-3	686-56-3	685-56-3SET	M56 x 1
682-58-3	685-58-3	686-58-3	685-58-3SET	M58 x 1
682-60-3	685-60-3	686-60-3	685-60-3SET	M60 x 1
682-62-3	685-62-3	686-62-3	685-62-3SET	M62 x 1

Thread Plug Gauges And Ring Gauges

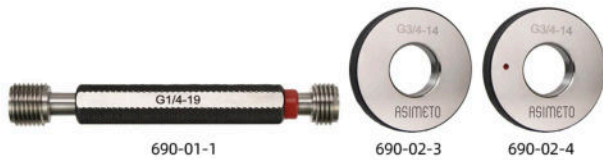
68X Series

ISO-Metric Fine Thread				
Plug Gauge 6H	Ring Gauge "GO" 6g	Ring Gauge "NO GO" 6G	Ring Gauge 6g "GO and NO GO"	Size
682-64-3	685-64-3	686-64-3	685-64-3SET	M64 x 1
682-65-3	685-65-3	686-65-3	685-65-3SET	M65 x 1
682-68-3	685-68-3	686-68-3	685-68-3SET	M68 x 1
682-70-3	685-70-3	686-70-3	685-70-3SET	M70 x 1
682-72-3	685-72-3	686-72-3	685-72-3SET	M72 x 1
682-75-3	685-75-3	686-75-3	685-75-3SET	M75 x 1
682-76-3	685-76-3	686-76-3	685-76-3SET	M76 x 1
682-78-3	685-78-3	686-78-3	685-78-3SET	M78 x 1
682-80-3	685-80-3	686-80-3	685-80-3SET	M80 x 1
682-10-4	685-10-4	686-10-4	685-10-4SET	M10 x 1.25
682-12-4	685-12-4	686-12-4	685-12-4SET	M12 x 1.25
682-14-4	685-14-4	686-14-4	685-14-4SET	M14 x 1.25
682-12-5	685-12-5	686-12-5	685-12-5SET	M12 x 1.5
682-14-5	685-14-5	686-14-5	685-14-5SET	M14 x 1.5
682-16-5	685-16-5	686-16-5	685-16-5SET	M16 x 1.5
682-18-5	685-18-5	686-18-5	685-18-5SET	M18 x 1.5
682-20-5	685-20-5	686-20-5	685-20-5SET	M20 x 1.5
682-22-5	685-22-5	686-22-5	685-22-5SET	M22 x 1.5
682-24-5	685-24-5	686-24-5	685-24-5SET	M24 x 1.5
682-25-5	685-25-5	686-25-5	685-25-5SET	M25 x 1.5
682-26-5	685-26-5	686-26-5	685-26-5SET	M26 x 1.5
682-27-5	685-27-5	686-27-5	685-27-5SET	M27 x 1.5
682-28-5	685-28-5	686-28-5	685-28-5SET	M28 x 1.5
682-30-5	685-30-5	686-30-5	685-30-5SET	M30 x 1.5
682-32-5	685-32-5	686-32-5	685-32-5SET	M32 x 1.5
682-33-5	685-33-5	686-33-5	685-33-5SET	M33 x 1.5
682-34-5	685-34-5	686-34-5	685-34-5SET	M34 x 1.5
682-35-5	685-35-5	686-35-5	685-35-5SET	M35 x 1.5
682-36-5	685-36-5	686-36-5	685-36-5SET	M36 x 1.5
682-38-5	685-38-5	686-38-5	685-38-5SET	M38 x 1.5
682-40-5	685-40-5	686-40-5	685-40-5SET	M40 x 1.5
682-42-5	685-42-5	686-42-5	685-42-5SET	M42 x 1.5
682-45-5	685-45-5	686-45-5	685-45-5SET	M45 x 1.5
682-48-5	685-48-5	686-48-5	685-48-5SET	M48 x 1.5
682-50-5	685-50-5	686-50-5	685-50-5SET	M50 x 1.5
682-52-5	685-52-5	686-52-5	685-52-5SET	M52 x 1.5
682-55-5	685-55-5	686-55-5	685-55-5SET	M55 x 1.5
682-56-5	685-56-5	686-56-5	685-56-5SET	M56 x 1.5
682-58-5	685-58-5	686-58-5	685-58-5SET	M58 x 1.5
682-60-5	685-60-5	686-60-5	685-60-5SET	M60 x 1.5
682-62-5	685-62-5	686-62-5	685-62-5SET	M62 x 1.5
682-64-5	685-64-5	686-64-5	685-64-5SET	M64 x 1.5
682-65-5	685-65-5	686-65-5	685-65-5SET	M65 x 1.5
682-68-5	685-68-5	686-68-5	685-68-5SET	M68 x 1.5
682-70-5	685-70-5	686-70-5	685-70-5SET	M70 x 1.5
682-72-5	685-72-5	686-72-5	685-72-5SET	M72 x 1.5
682-75-5	685-75-5	686-75-5	685-75-5SET	M75 x 1.5
682-76-5	685-76-5	686-76-5	685-76-5SET	M76 x 1.5
682-78-5	685-78-5	686-78-5	685-78-5SET	M78 x 1.5
682-80-5	685-80-5	686-80-5	685-80-5SET	M80 x 1.5
682-18-6	685-18-6	686-18-6	685-18-6SET	M18 x 2
682-20-6	685-20-6	686-20-6	685-20-6SET	M20 x 2
682-22-6	685-22-6	686-22-6	685-22-6SET	M22 x 2
682-24-6	685-24-6	686-24-6	685-24-6SET	M24 x 2
682-26-6	685-26-6	686-26-6	685-26-6SET	M26 x 2
682-27-6	685-27-6	686-27-6	685-27-6SET	M27 x 2

Plug Gauge 6H	Ring Gauge "GO" 6g	Ring Gauge "NO GO" 6G	Ring Gauge 6g "GO and NO GO"	Size
682-28-6	685-28-6	686-28-6	685-28-6SET	M28 x 2
682-30-6	685-30-6	686-30-6	685-30-6SET	M30 x 2
682-32-6	685-32-6	686-32-6	685-32-6SET	M32 x 2
682-33-6	685-33-6	686-33-6	685-33-6SET	M33 x 2
682-34-6	685-34-6	686-34-6	685-34-6SET	M34 x 2
682-35-6	685-35-6	686-35-6	685-35-6SET	M35 x 2
682-36-6	685-36-6	686-36-6	685-36-6SET	M36 x 2
682-38-6	685-38-6	686-38-6	685-38-6SET	M38 x 2
682-39-6	685-39-6	686-39-6	685-39-6SET	M39 x 2
682-40-6	685-40-6	686-40-6	685-40-6SET	M40 x 2
682-42-6	685-42-6	686-42-6	685-42-6SET	M42 x 2
682-45-6	685-45-6	686-45-6	685-45-6SET	M45 x 2
682-48-6	685-48-6	686-48-6	685-48-6SET	M48 x 2
682-50-6	685-50-6	686-50-6	685-50-6SET	M50 x 2
682-52-6	685-52-6	686-52-6	685-52-6SET	M52 x 2
682-55-6	685-55-6	686-55-6	685-55-6SET	M55 x 2
682-56-6	685-56-6	686-56-6	685-56-6SET	M56 x 2
682-58-6	685-58-6	686-58-6	685-58-6SET	M58 x 2
682-60-6	685-60-6	686-60-6	685-60-6SET	M60 x 2
682-62-6	685-62-6	686-62-6	685-62-6SET	M62 x 2
682-64-6	685-64-6	686-64-6	685-64-6SET	M64 x 2
682-68-6	685-68-6	686-68-6	685-68-6SET	M68 x 2
682-70-6	685-70-6	686-70-6	685-70-6SET	M70 x 2
682-72-6	685-72-6	686-72-6	685-72-6SET	M72 x 2
682-75-6	685-75-6	686-75-6	685-75-6SET	M75 x 2
682-76-6	685-76-6	686-76-6	685-76-6SET	M76 x 2
682-78-6	685-78-6	686-78-6	685-78-6SET	M78 x 2
682-80-6	685-80-6	686-80-6	685-80-6SET	M80 x 2
682-82-6	685-82-6	686-82-6	685-82-6SET	M82 x 2
682-85-6	685-85-6	686-85-6	685-85-6SET	M85 x 2
682-88-6	685-88-6	686-88-6	685-88-6SET	M88 x 2
682-90-6	685-90-6	686-90-6	685-90-6SET	M90 x 2
682-92-6	685-92-6	686-92-6	685-92-6SET	M92 x 2
682-95-6	685-95-6	686-95-6	685-95-6SET	M95 x 2
682-98-6	685-98-6	686-98-6	685-98-6SET	M98 x 2
683-00-6	685-00-6	686-00-6	685-00-6SET	M100 x 2
682-30-7	685-30-7	686-30-7	685-30-7SET	M30 x 3
682-33-7	685-33-7	686-33-7	685-33-7SET	M33 x 3
682-36-7	685-36-7	686-36-7	685-36-7SET	M36 x 3
682-39-7	685-39-7	686-39-7	685-39-7SET	M39 x 3
682-40-7	685-40-7	686-40-7	685-40-7SET	M40 x 3
682-42-7	685-42-7	686-42-7	685-42-7SET	M42 x 3
682-45-7	685-45-7	686-45-7	685-45-7SET	M45 x 3
682-48-7	685-48-7	686-48-7	685-48-7SET	M48 x 3
682-50-7	685-50-7	686-50-7	685-50-7SET	M50 x 3
682-52-7	685-52-7	686-52-7	685-52-7SET	M52 x 3
682-55-7	685-55-7	686-55-7	685-55-7SET	M55 x 3
682-56-7	685-56-7	686-56-7	685-56-7SET	M56 x 3
682-58-7	685-58-7	686-58-7	685-58-7SET	M58 x 3
682-60-7	685-60-7	686-60-7	685-60-7SET	M60 x 3
682-62-7	685-62-7	686-62-7	685-62-7SET	M62 x 3
682-64-7	685-64-7	686-64-7	685-64-7SET	M64 x 3
682-65-7	685-65-7	686-65-7	685-65-7SET	M65 x 3
682-68-7	685-68-7	686-68-7	685-68-7SET	M68 x 3
682-70-7	685-70-7	686-70-7	685-70-7SET	M70 x 3
682-72-7	685-72-7	686-72-7	685-72-7SET	M72 x 3

Whitworth Pipe Thread Plug Gauges And Ring Gauges

690 Series



FEATURES

- Thread angle: 55°
- Right hand, DIN ISO 228

Code No.				
Plug Gauge	Ring Gauge "GO"	Ring Gauge "NO GO"	Ring Gauge SET "GO and NO GO"	Size
690-01-1	-	-	-	G1/16
690-02-1	690-02-3	690-02-4	690-02-3SET	G1/8
690-03-1	690-03-3	690-03-4	690-03-3SET	G1/4
690-04-1	690-04-3	690-04-4	690-04-3SET	G3/8
690-05-1	690-05-3	690-05-4	690-05-3SET	G1/2
690-06-1	690-06-3	690-06-4	690-06-3SET	G5/8
690-07-1	690-07-3	690-07-4	690-07-3SET	G3/4
690-08-1	690-08-3	690-08-4	690-08-3SET	G7/8
690-09-1	690-09-3	690-09-4	690-09-3SET	G1

Code No.				
Plug Gauge	Ring Gauge "GO"	Ring Gauge "NO GO"	Ring Gauge SET "GO and NO GO"	Size
690-10-1	690-10-3	690-10-4	690-10-3SET	G1-1/8
690-11-1	690-11-3	690-11-4	690-11-3SET	G1-1/4
690-12-1	690-12-3	690-12-4	690-12-3SET	G1-1/2
690-13-1	690-13-3	690-13-4	690-13-3SET	G1-3/4
690-14-1	690-14-3	690-14-4	690-14-3SET	G2
690-15-1	690-15-3	690-15-4	690-15-3SET	G2-1/4
690-16-1	690-16-3	690-16-4	690-16-3SET	G2-1/2
690-17-1	690-17-3	690-17-4	690-17-3SET	G2-3/4
690-18-1	690-18-3	690-18-4	690-18-3SET	G3

NPT Thread Plug Gauges And Ring Gauges

690 Series



FEATURES

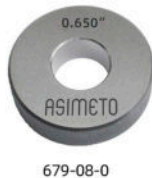
- NPT ANSI/ASME B.1.20.1*
- Class L1

Code No.		
Plug Gauge	Ring Gauge	Size
690-41-1	690-41-3	1/8"-27
690-42-1	690-42-3	1/4"-18
690-43-1	690-43-3	3/8"-18
690-44-1	690-44-3	1/2"-14
690-45-1	690-45-3	3/4"-14
690-46-1	690-46-3	1"-11.5

Code No.		
Plug Gauge	Ring Gauge	Size
690-47-1	690-47-3	1-1/4"-11.5
690-48-1	690-48-3	1-1/2"-11.5
690-49-1	690-49-3	2"-11.5
690-50-1	690-50-3	2-1/2"-8
690-51-1	690-51-3	3"-8

Inch Master Setting Ring Gauges

679 Series



FEATURES

- Hardened steel

Code No.	Size	Accuracy	Taper/Ovality
679-01-0	.100"	±.00004"	.000012"
679-02-0	.160"	±.00005"	.000015"
679-03-0	.175"	±.00005"	.000015"
679-04-0	.225"	±.00005"	.000015"
679-05-0	.240"	±.00005"	.000015"
679-06-0	.350"	±.00005"	.000015"
679-07-0	.500"	±.00006"	.000019"
679-08-0	.650"	±.00006"	.000019"
679-09-0	1.000"	±.00008"	.000024"
679-10-0	1.400"	±.00008"	.000028"

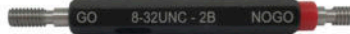
Code No.	Size	Accuracy	Taper/Ovality
679-11-0	1.800"	±.00008"	.000028"
679-12-0	2.000"	±.00010"	.000031"
679-13-0	2.800"	±.00010"	.000031"
679-14-0	3.600"	±.00012"	.000039"
679-19-0	4.000"	±.00012"	.000039"
679-15-0	5.000"	±.00016"	.000047"
679-16-0	7.000"	±.00016"	.000047"
679-17-0	9.000"	±.00019"	.000055"
679-18-0	11.000"	±.00023"	.000062"

ANSI Inch Thread Plug Gauges And Adjustable Ring Gauges

695 Series



695-21-1



695-41-2



695-21-0



695-32-5

FEATURES

- Aluminum handle
- ANSI Standard

Master Gauge "GO" (Class 2A)	Master Gauge "NO GO" (Class 2A)	Plug Gauge Double End (Class 2B)	Ring Gauge "GO" (Class 2A)	Ring Gauge "NO GO" (Class 2A)	Size
695-01-0	695-01-1	695-01-2	695-01-4	695-01-5	0-80 UNF
695-02-0	695-02-1	695-02-2	695-02-4	695-02-5	1-64 UNC
695-03-0	695-03-1	695-03-2	695-03-4	695-03-5	1-72 UNF
695-04-0	695-04-1	695-04-2	695-04-4	695-04-5	2-56 UNC
695-05-0	695-05-1	695-05-2	695-05-4	695-05-5	2-64 UNF
695-06-0	695-06-1	695-06-2	695-06-4	695-06-5	3-48 UNC
695-07-0	695-07-1	695-07-2	695-07-4	695-07-5	3-56 UNF
695-08-0	695-08-1	695-08-2	695-08-4	695-08-5	4-40 UNC
695-09-0	695-09-1	695-09-2	695-09-4	695-09-5	4-48 UNF
695-10-0	695-10-1	695-10-2	695-10-4	695-10-5	5-40 UNC
695-11-0	695-11-1	695-11-2	695-11-4	695-11-5	5-44 UNF
695-12-0	695-12-1	695-12-2	695-12-4	695-12-5	6-32 UNC
695-13-0	695-13-1	695-13-2	695-13-4	695-13-5	6-40 UNF
695-14-0	695-14-1	695-14-2	695-14-4	695-14-5	8-32 UNC
695-15-0	695-15-1	695-15-2	695-15-4	695-15-5	8-36 UNF
695-16-0	695-16-1	695-16-2	695-16-4	695-16-5	10-24 UNC
695-17-0	695-17-1	695-17-2	695-17-4	695-17-5	10-32 UNF
695-18-0	695-18-1	695-18-2	695-18-4	695-18-5	12-24 UNC
695-19-0	695-19-1	695-19-2	695-19-4	695-19-5	12-28 UNF
695-20-0	695-20-1	695-20-2	695-20-4	695-20-5	1/4-20 UNC
695-21-0	695-21-1	695-21-2	695-21-4	695-21-5	1/4-28 UNF
695-22-0	695-22-1	695-22-2	695-22-4	695-22-5	1/4-32 UNEF
695-23-0	695-23-1	695-23-2	695-23-4	695-23-5	5/16-18 UNC
695-24-0	695-24-1	695-24-2	695-24-4	695-24-5	5/16-24 UNF
695-25-0	695-25-1	695-25-2	695-25-4	695-25-5	5/16-32 UNEF
695-26-0	695-26-1	695-26-2	695-26-4	695-26-5	3/8-16 UNC
695-27-0	695-27-1	695-27-2	695-27-4	695-27-5	3/8-24 UNF
695-28-0	695-28-1	695-28-2	695-28-4	695-28-5	3/8-32 UNEF
695-29-0	695-29-1	695-29-2	695-29-4	695-29-5	7/16-14 UNC
695-30-0	695-30-1	695-30-2	695-30-4	695-30-5	7/16-20 UNF
695-31-0	695-31-1	695-31-2	695-31-4	695-31-5	7/16-28 UNEF
695-32-0	695-32-1	695-32-2	695-32-4	695-32-5	1/2-13 UNC
695-33-0	695-33-1	695-33-2	695-33-4	695-33-5	1/2-20 UNF
695-34-0	695-34-1	695-34-2	695-34-4	695-34-5	1/2-28 UNEF
695-35-0	695-35-1	695-35-2	695-35-4	695-35-5	9/16-12 UNC
695-36-0	695-36-1	695-36-2	695-36-4	695-36-5	9/16-18 UNF
695-37-0	695-37-1	695-37-2	695-37-4	695-37-5	9/16-24 UNEF
695-38-0	695-38-1	695-38-2	695-38-4	695-38-5	5/8-11 UNC
695-39-0	695-39-1	695-39-2	695-39-4	695-39-5	5/8-18 UNF
695-40-0	695-40-1	695-40-2	695-40-4	695-40-5	5/8-24 UNEF
695-41-0	695-41-1	695-41-2	695-41-4	695-41-5	3/4-10 UNC
695-42-0	695-42-1	695-42-2	695-42-4	695-42-5	3/4-16 UNF
695-43-0	695-43-1	695-43-2	695-43-4	695-43-5	3/4-20 UNEF
695-44-0	695-44-1	695-44-2	695-44-4	695-44-5	7/8-9 UNC
695-45-0	695-45-1	695-45-2	695-45-4	695-45-5	7/8-14 UNF
695-46-0	695-46-1	695-46-2	695-46-4	695-46-5	7/8-20 UNEF
695-47-0	695-47-1	695-47-2	695-47-4	695-47-5	1"-8 UNC
695-48-0	695-48-1	695-48-2	695-48-4	695-48-5	1"-12 UNF

ANSI Inch Thread Ring Gauges

699 Series



699-38-4



699-38-5

FEATURES

- Aluminum handle
- ANSI Standard

Ring Gauge "GO" (Class 2A)	Ring Gauge "NO GO" (Class 2A)	Size
699-03-4	699-03-5	1-72 UNF
699-04-4	699-04-5	2-56 UNC
699-05-4	699-05-5	2-64 UNF
699-06-4	699-06-5	3-48 UNC
699-07-4	699-07-5	3-56 UNF
699-08-4	699-08-5	4-40 UNC
699-09-4	699-09-5	4-48 UNF
699-10-4	699-10-5	5-40 UNC
699-11-4	699-11-5	5-44 UNF
699-12-4	699-12-5	6-32 UNC
699-13-4	699-13-5	6-40 UNF
699-14-4	699-14-5	8-32 UNC
699-15-4	699-15-5	8-36 UNF
699-16-4	699-16-5	10-24 UNC
699-17-4	699-17-5	10-32 UNF
699-18-4	699-18-5	12-24 UNC
699-19-4	699-19-5	12-28 UNF
699-20-4	699-20-5	1/4-20 UNC
699-21-4	699-21-5	1/4-28 UNF
699-22-4	699-22-5	1/4-32 UNEF
699-23-4	699-23-5	5/16-18 UNC
699-24-4	699-24-5	5/16-24 UNF
699-25-4	699-25-5	5/16-32 UNEF
699-26-4	699-26-5	3/8-16 UNC
699-27-4	699-27-5	3/8-24 UNF
699-28-4	699-28-5	3/8-32 UNEF
699-29-4	699-29-5	7/16-14 UNC
699-30-4	699-30-5	7/16-20 UNF
699-31-4	699-31-5	7/16-28 UNEF
699-32-4	699-32-5	1/2-13 UNC
699-33-4	699-33-5	1/2-20 UNF
699-34-4	699-34-5	1/2-28 UNEF
699-35-4	699-35-5	9/16-12 UNC
699-36-4	699-36-5	9/16-18 UNF
699-37-4	699-37-5	9/16-24 UNEF
699-38-4	699-38-5	5/8-11 UNC
699-39-4	699-39-5	5/8-18 UNF
699-40-4	699-40-5	5/8-24 UNEF
699-41-4	699-41-5	3/4-10 UNC
699-42-4	699-42-5	3/4-16 UNF
699-43-4	699-43-5	3/4-20 UNEF
699-44-4	699-44-5	7/8-9 UNC
699-45-4	699-45-5	7/8-14 UNF
699-46-4	699-46-5	7/8-20 UNEF
699-47-4	699-47-5	1"-8 UNC
699-48-4	699-48-5	1"-12 UNF
699-49-4	699-49-5	1"-16 UN
699-50-4	699-50-5	1-1/16"-8 UN

Ring Gauge "GO" (Class 2A)	Ring Gauge "NO GO" (Class 2A)	Size
699-51-4	699-51-5	1-1/16"-12 UN
699-52-4	699-52-5	1-1/16"-16 UN
699-53-4	699-53-5	1-1/8"-8 UN
699-54-4	699-54-5	1-1/8"-12 UNF
699-55-4	699-55-5	1-1/8"-16 UN
699-56-4	699-56-5	1-3/16"-8 UN
699-57-4	699-57-5	1-3/16"-12 UN
699-58-4	699-58-5	1-3/16"-16 UN
699-59-4	699-59-5	1-1/4"-8 UN
699-60-4	699-60-5	1-1/4"-12 UNF
699-61-4	699-61-5	1-1/4"-16 UN
699-62-4	699-62-5	1-5/16"-8 UN
699-63-4	699-63-5	1-5/16"-12 UN
699-64-4	699-64-5	1-5/16"-16 UN
699-65-4	699-65-5	1-3/8"-8 UN
699-66-4	699-66-5	1-3/8"-12 UNF
699-67-4	699-67-5	1-3/8"-16 UN
699-68-4	699-68-5	1-7/16"-8 UN
699-69-4	699-69-5	1-7/16"-12 UN
699-70-4	699-70-5	1-7/16"-16 UN
699-71-4	699-71-5	1-1/2"-8 UN
699-72-4	699-72-5	1-1/2"-12 UNF
699-73-4	699-73-5	1-1/2"-16 UN
699-74-4	699-74-5	1-9/16"-8 UN
699-75-4	699-75-5	1-9/16"-12 UN
699-76-4	699-76-5	1-9/16"-16 UN
699-77-4	699-77-5	1-5/8"-8 UN
699-78-4	699-78-5	1-5/8"-12 UN
699-79-4	699-79-5	1-5/8"-16 UN
699-80-4	699-80-5	1-11/16"-8 UN
699-81-4	699-81-5	1-11/16"-12 UN
69982-4	69982-5	1-11/16"-16 UN
699-83-4	699-83-5	1-3/4"-8 UN
699-84-4	699-84-5	1-3/4"-12 UN
699-85-4	699-85-5	1-3/4"-16 UN
699-86-4	699-86-5	1-13/16"-8 UN
699-87-4	699-87-5	1-13/16"-12 UN
699-88-4	699-88-5	1-13/16"-16 UN
699-89-4	699-89-5	1-7/8"-8 UN
699-90-4	699-90-5	1-7/8"-12 UN
699-91-4	699-91-5	1-7/8"-16 UN
699-92-4	699-92-5	1-15/16"-8 UN
699-93-4	699-93-5	1-15/16"-12 UN
699-94-4	699-94-5	1-15/16"-16 UN
699-95-4	699-95-5	2"-8 UN
699-96-4	699-96-5	2"-12 UN
699-97-4	699-97-5	2"-16 UN
699-98-4	699-98-5	2-1/8"-8 UN
699-99-4	699-99-5	2-1/8"-12 UN

ANSI Metric Thread Plug Gauges And Ring Gauges

696 Series



696-16-2



696-19-4



696-19-5

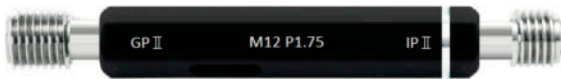
FEATURES

- Aluminum handle
- ANSI Standard

Code No.					
Plug Gauge "GO"(6H)	Plug Gauge "NO GO"(6H)	Plug Gauge Double End (6H)	Ring Gauge "GO"(6g)	Ring Gauge "NO GO"(6g)	Size
696-01-0	696-01-1	696-01-2	-	-	M1.6 x 0.35
696-02-0	696-02-1	696-02-2	-	-	M1.8 x 0.35
696-03-0	696-03-1	696-03-2	-	-	M2 x 0.4
696-04-0	696-04-1	696-04-2	-	-	M2.2 x 0.45
696-05-0	696-05-1	696-05-2	696-05-4	696-05-5	M2.5 x 0.45
696-06-0	696-06-1	696-06-2	696-06-4	696-06-5	M3 x 0.5
696-07-0	696-07-1	696-07-2	696-07-4	696-07-5	M3.5 x 0.6
696-08-0	696-08-1	696-08-2	696-08-4	696-08-5	M4 x 0.7
696-09-0	696-09-1	696-09-2	696-09-4	696-09-5	M4.5 x 0.75
696-10-0	696-10-1	696-10-2	696-10-4	696-10-5	M5 x 0.8
696-11-0	696-11-1	696-11-2	696-11-4	696-11-5	M6 x 1
696-12-0	696-12-1	696-12-2	696-12-4	696-12-5	M7 x 1
696-13-0	696-13-1	696-13-2	696-13-4	696-13-5	M8 x 1
696-14-0	696-14-1	696-14-2	696-14-4	696-14-5	M8 x 1.25
696-15-0	696-15-1	696-15-2	696-15-4	696-15-5	M10 x 1.25
696-16-0	696-16-1	696-16-2	696-16-4	696-16-5	M10 x 1.5
696-17-0	696-17-1	696-17-2	696-17-4	696-17-5	M12 x 1.25
696-18-0	696-18-1	696-18-2	696-18-4	696-18-5	M12 x 1.75
696-19-0	696-19-1	696-19-2	696-19-4	696-19-5	M14 x 1.5
696-20-0	696-20-1	696-20-2	696-20-4	696-20-5	M14 x 2
696-21-0	696-21-1	696-21-2	696-21-4	696-21-5	M16 x 1.5
696-22-0	696-22-1	696-22-2	696-22-4	696-22-5	M16 x 2
696-23-0	696-23-1	696-23-2	696-23-4	696-23-5	M18 x 1.5
696-24-0	696-24-1	696-24-2	696-24-4	696-24-5	M18 x 2.5
696-25-0	696-25-1	696-25-2	696-25-4	696-25-5	M20 x 1.5
696-26-0	696-26-1	696-26-2	696-26-4	696-26-5	M20 x 2.5
696-27-0	696-27-1	696-27-2	696-27-4	696-27-5	M22 x 1.5
696-28-0	696-28-1	696-28-2	696-28-4	696-28-5	M24 x 2
696-29-0	696-29-1	696-29-2	696-29-4	696-29-5	M24 x 3
696-30-0	696-30-1	696-30-2	696-30-4	696-30-5	M27 x 2
696-31-0	696-31-1	696-31-2	696-31-4	696-31-5	M27 x 3
696-32-0	696-32-1	696-32-2	696-32-4	696-32-5	M30 x 2
696-33-0	696-33-1	696-33-2	696-33-4	696-33-5	M30 x 3.5
696-34-0	696-34-1	696-34-2	696-34-4	696-34-5	M33 x 2
696-35-0	696-35-1	696-35-2	696-35-4	696-35-5	M33 x 3.5
696-36-0	696-36-1	696-36-2	696-36-4	696-36-5	M36 x 3
696-37-0	696-37-1	696-37-2	696-37-4	696-37-5	M36 x 4
696-38-0	696-38-1	696-38-2	696-38-4	696-38-5	M39 x 3
696-39-0	696-39-1	696-39-2	696-39-4	696-39-5	M39 x 4

JIS Thread Plug Gauges

693 Series



GPIP



GPWP



GPNP-6H

FEATURES

- JIS-B-0251 Standard
- Thread Plug Gauges, GPII, GPWP II, GPNP-6H

JIS Thread Plug Gauges			
GPII	GPWP II	GPNP-6H	Size
693-016-0	693-016-OWP	693-016-0HNP	M1.6 X 0.35
693-017-0	693-017-OWP	693-017-0HNP	M1.7 X 0.35
693-02-0	693-02-OWP	693-02-0HNP	M2 X P0.4
693-025-0	693-025-OWP	693-025-0HNP	M2.5 X P0.45
693-026-0	693-026-OWP	693-026-0HNP	M2.6 X P0.45
693-03-0	693-03-OWP	693-03-0HNP	M3 X P0.5
693-03-1	693-03-1WP	693-03-1HNP	M3.5 X P0.6
693-04-0	693-04-OWP	693-04-0HNP	M4 X P0.7
693-05-0	693-05-OWP	693-05-0HNP	M5 X P0.8
693-06-0	693-06-OWP	693-06-0HNP	M6 X P1.0
693-06-1	693-06-1WP	693-06-1HNP	M6 X P0.75
693-07-0	693-07-OWP	693-07-0HNP	M7 X P1.0
693-08-0	693-08-OWP	693-08-0HNP	M8 X P1.25
693-08-1	693-08-1WP	693-08-1HNP	M8 X P1.0
693-10-0	693-10-OWP	693-10-0HNP	M10 X P1.5
693-10-1	693-10-1WP	693-10-1HNP	M10 X P1.0
693-10-2	693-10-2WP	693-10-2HNP	M10 X P1.25
693-12-0	693-12-OWP	693-12-0HNP	M12 X P1.75
693-12-1	693-12-1WP	693-12-1HNP	M12 X P1.0
693-12-2	693-12-2WP	693-12-2HNP	M12 X P1.25
693-12-3	693-12-3WP	693-12-3HNP	M12 X P1.5
693-14-0	693-14-OWP	693-14-0HNP	M14 X P2.0
693-14-1	693-14-1WP	693-14-1HNP	M14 X P1.0
693-14-2	693-14-2WP	693-14-2HNP	M14 X P1.5
693-16-0	693-16-OWP	693-16-0HNP	M16 X P2.0
693-16-1	693-16-1WP	693-16-1HNP	M16 X P1.0
693-16-2	693-16-2WP	693-16-2HNP	M16 X P1.5
693-18-0	693-18-OWP	693-18-0HNP	M18 X P2.5
693-18-1	693-18-1WP	693-18-1HNP	M18 X P1.0
693-18-2	693-18-2WP	693-18-2HNP	M18 X P1.5
693-18-3	693-18-3WP	693-18-3HNP	M18 X P2.0
693-20-0	693-20-OWP	693-20-0HNP	M20 X P2.5
693-20-1	693-20-1WP	693-20-1HNP	M20 X P1.0
693-20-2	693-20-2WP	693-20-2HNP	M20 X P1.5
693-22-1	693-22-1WP	693-22-1HNP	M22 X P1.5
693-22-0	693-22-OWP	693-22-0HNP	M22 X P2.5
693-24-0	693-24-OWP	693-24-0HNP	M24 X P3.0
693-27-0	693-27-OWP	693-27-0HNP	M27 X P3.0
693-30-0	693-30-OWP	693-30-0HNP	M30 X P3.5

JIS Thread Ring Gauges

693 Series



GR



IR



WR

FEATURES

- JIS-B-0251 Standard
- Thread Ring Gauges, GR II, IR II, WR II

JIS Thread Ring Gauges			
GR II	IR II	WR II	Size
693-02-4	693-02-5IR	693-02-5WR	M2 X P0.4
693-025-4	693-025-5IR	693-025-5WR	M2.5 X P0.45
693-026-4	693-026-5IR	693-026-5WR	M2.6 X P0.45
693-03-4	693-03-5IR	693-03-5WR	M3 X P0.5
693-04-4	693-04-5IR	693-04-5WR	M4 X P0.7
693-05-4	693-05-5IR	693-05-5WR	M5 X P0.8
693-06-4	693-06-5IR	693-06-5WR	M6 X P1.0
693-07-4	693-07-5IR	693-07-5WR	M7 X P1.0
693-08-4	693-08-5IR	693-08-5WR	M8 X P1.25
693-10-4	693-10-5IR	693-10-5WR	M10 X P1.5
693-12-4	693-12-5IR	693-12-5WR	M12 X P1.75
693-14-4	693-14-5IR	693-14-5WR	M14 X P2.0
693-16-4	693-16-5IR	693-16-5WR	M16 X P2.0
693-18-4	693-18-5IR	693-18-5WR	M18 X P2.5
693-20-4	693-20-5IR	693-20-5WR	M20 X P2.5
693-22-4	693-22-5IR	693-22-5WR	M22 X P2.5
693-24-4	693-24-5IR	693-24-5WR	M24 X P3.0
693-27-4	693-27-5IR	693-27-5WR	M30 X P3.5
693-30-4	693-30-5IR	693-30-5WR	M30 X P3.5

PT Tapered Pipe Thread plug Gauges and Ring Gauges

690 Series



690-63-1



690-63-2

FEATURES

- Thread angle: 55°
- Taper: 1:16
- Accuracy standard: JIS B 0203

Code No.		
Plug Gauge	Ring Gauge	Range
690-59-1	-	1/16 -28
690-60-1	690-60-2	1/8 -28
690-61-1	690-61-2	1/4 -19
690-62-1	690-62-2	3/8 -19
690-63-1	690-63-2	1/2 -14
690-64-1	690-64-2	3/4 -14
690-65-1	690-65-2	1 -11
690-66-1	690-66-2	1 1/4 -11
690-67-1	690-67-2	1 1/2 -11
690-68-1	690-68-2	2 -11
690-69-1	690-69-2	2 1/2 -11
690-70-1	690-70-2	3 -11

Precision Inspection Gauge Ball Sets

679 Series



679-90-0

Ball Set - Metric

Code No.	Qty.	Description
679-90-0	25 pair	1mm To 25 mm In 1 mm Increments

Ball Set - Inch

Code No.	Qty.	Description
679-90-1	26 pair	1/32" To 1"

FEATURES

- Meets all grade 25 AFBMA standards
- Chrome alloy steel, hardened to HRC63
- Surface finish to 1.5 Micro-Inches
- Within .0001"/0.0025 mm of actual size
- Spherical accuracy within .000025"/0.0006 mm
- Inches - includes: 32 pairs in Inch sizes 1/32" to 1"
- Metric - includes: 25 pairs in Metric sizes
- 1mm to 25mm in 1mm increments

36 pcs Round Space Block Sets

679 Series



679-95-0

FEATURES

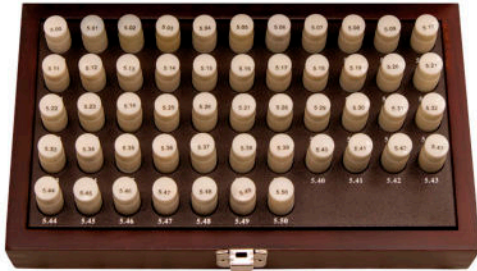
- For quickly setting stops and set ups in lathes, milling machines, drill presses, etc. Also excellent for setting sine bars
- Each block marked for size. Overall diameter: .750"
- 1/4"-28 threaded hole through center of block
- Working surfaces hardened to HRC58-60
- Working surfaces precision ground and lapped to $\pm .000050"$
- 4 connecting screws supplied to form desired length

36 PCS Set

Code No.	Included
679-95-0	.050, .060, .0625, .070, .080, .090, .100, .101, .102, .103, .104, .105, .106, .107, .108, .109, .110, .120, .125, .130, .140, .150, .160, .170, .180, .190, .200, .300, .400, .500, .600, .700, .800, .900, 1.00 (2 ea.)

Steel Pin Gage

698 Series



697-11-0

Features

- Meet DIN2269, grade 0
- Diameter accuracy: $\pm 0.0005\text{mm}$
- Size is laser - etched on each product and the box. (Sizes from 0.2-1.5mm are not marked on the product)
- Uniform 50mm overall length
- All sharp corners broken
- Material: Bearing Steel
- Heat treated to a hardness of 60-62 Rockwell C

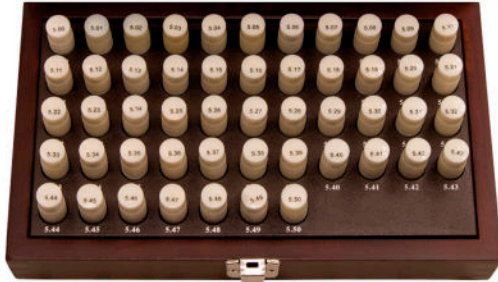
Metric Sets			
Code No.	Size Range	Step	Pieces
698-01-2	0.20~0.50mm	0.01mm	31
698-02-2	0.50~1.00mm	0.01mm	51
698-03-2	1.00~1.50mm	0.01mm	51
698-04-2	1.50~2.00mm	0.01mm	51
698-05-2	2.00~2.50mm	0.01mm	51
698-06-2	2.50~3.00mm	0.01mm	51
698-07-2	3.00~3.50mm	0.01mm	51
698-08-2	3.50~4.00mm	0.01mm	51
698-09-2	4.00~4.50mm	0.01mm	51
698-10-2	4.50~5.00mm	0.01mm	51
698-11-2	5.00~5.50mm	0.01mm	51
698-12-2	5.50~6.00mm	0.01mm	51
698-13-2	6.00~6.50mm	0.01mm	51
698-14-2	6.50~7.00mm	0.01mm	51
698-15-2	7.00~7.50mm	0.01mm	51
698-16-2	7.50~8.00mm	0.01mm	51
698-17-2	8.00~8.50mm	0.01mm	51
698-18-2	8.50~9.00mm	0.01mm	51
698-19-2	9.00~9.50mm	0.01mm	51
698-20-2	9.50~10.00mm	0.01mm	51

Metric Sets			
Code No.	Size Range	Step	Pieces
698-21-2	10.00~10.50mm	0.01mm	51
698-22-2	10.50~11.00mm	0.01mm	51
698-23-2	11.00~11.50mm	0.01mm	51
698-24-2	11.50~12.00mm	0.01mm	51
698-25-2	12.00~12.50mm	0.01mm	51
698-26-2	12.50~13.00mm	0.01mm	51
698-27-2	13.00~13.50mm	0.01mm	51
698-28-2	13.50~14.00mm	0.01mm	51
698-29-2	14.00~14.50mm	0.01mm	51
698-30-2	14.50~15.00mm	0.01mm	51
698-31-2	15.00~15.50mm	0.01mm	51
698-32-2	15.50~16.00mm	0.01mm	51
698-33-2	16.00~16.50mm	0.01mm	51
698-34-2	16.50~17.00mm	0.01mm	51
698-35-2	17.00~17.50mm	0.01mm	51
698-36-2	17.50~18.00mm	0.01mm	51
698-37-2	18.00~18.50mm	0.01mm	51
698-38-2	18.50~19.00mm	0.01mm	51
698-39-2	19.00~19.50mm	0.01mm	51
698-40-2	19.50~20.00mm	0.01mm	51

Individual		
Code No.	Size Range	Step
830-02-0 to 832-00-0	0.20-20.00	0.01mm

Pin Gauge Sets

698/699 Series



698-31-0

Features

- Meet DIN2269, grade 1
- Diameter accuracy: $\pm 0.001\text{mm}$
- Size is laser - etched on each product and the box
(Sizes from 0.2-1.5mm are not marked on the product)
- Uniform 50mm overall length
- All sharp corners broken
- Material: Bearing Steel
- Heat treated to a hardness of 60-62 Rockwell C

Metric Sets		
Code No.	Qty.	Range
698-21-0	31	0.20-0.50mm x 0.01mm Step
698-22-0	51	0.50-1.00mm x 0.01mm Step
698-23-0	51	1.00-1.50mm x 0.01mm Step
698-24-0	51	1.50-2.00mm x 0.01mm Step
698-25-0	51	2.00-2.50mm x 0.01mm Step
698-26-0	51	2.50-3.00mm x 0.01mm Step
698-27-0	51	3.00-3.50mm x 0.01mm Step
698-28-0	51	3.50-4.00mm x 0.01mm Step
698-29-0	51	4.00-4.50mm x 0.01mm Step
698-30-0	51	4.50-5.00mm x 0.01mm Step
698-31-0	51	5.00-5.50mm x 0.01mm Step
698-32-0	51	5.50-6.00mm x 0.01mm Step
698-33-0	51	6.00-6.50mm x 0.01mm Step
698-34-0	51	6.50-7.00mm x 0.01mm Step
698-35-0	51	7.00-7.50mm x 0.01mm Step
698-36-0	51	7.50-8.00mm x 0.01mm Step
698-37-0	51	8.00-8.50mm x 0.01mm Step
698-38-0	51	8.50-9.00mm x 0.01mm Step
698-39-0	51	9.00-9.50mm x 0.01mm Step
698-40-0	51	9.50-10.00mm x 0.01mm Step
698-41-0	51	10.00-10.50mm x 0.01mm Step
698-42-0	51	10.50-11.00mm x 0.01mm Step
698-43-0	51	11.00-11.50mm x 0.01mm Step
698-44-0	51	11.50-12.00mm x 0.01mm Step

Code No.	Qty.	Range
698-45-0	51	12.00-12.50mm x 0.01mm Step
698-46-0	51	12.50-13.00mm x 0.01mm Step
698-47-0	51	13.00-13.50mm x 0.01mm Step
698-48-0	51	13.50-14.00mm x 0.01mm Step
698-49-0	51	14.00-14.50mm x 0.01mm Step
698-50-0	51	14.50-15.00mm x 0.01mm Step
698-51-0	51	15.00-15.50mm x 0.01mm Step
698-52-0	51	15.50-16.00mm x 0.01mm Step
698-53-0	51	16.00-16.50mm x 0.01mm Step
698-54-0	51	16.50-17.00mm x 0.01mm Step
698-55-0	51	17.00-17.50mm x 0.01mm Step
698-56-0	51	17.50-18.00mm x 0.01mm Step
698-57-0	51	18.00-18.50mm x 0.01mm Step
698-58-0	51	18.50-19.00mm x 0.01mm Step
698-59-0	51	19.00-19.50mm x 0.01mm Step
698-60-0	51	19.50-20.00mm x 0.01mm Step
699-20-0	20	0.10-0.29mm x 0.01mm Step
699-21-0	50	0.300-1.525mm x 0.025mm Step
699-22-0	190	1.550-6.275mm x 0.025mm Step
699-23-0	140	6.300-9.775mm x 0.025mm Step
699-24-0	110	9.800-12.525mm x 0.025mm Step
699-25-0	18	12.550-12.975mm x 0.025mm Step
699-26-0	61	13.0-19.0mm x 0.1mm Step

Individual Tolerance			
Code No.	Size Range	Step	Tolerance
800-02-0 to 803-00-0	0.20-30.00mm	0.01mm	$\pm 0.001\text{mm}$
P800-02-0 to 803-00-0	0.20-30.00mm	0.01mm	$+0.002\text{mm}/-0$
M800-02-0 to 803-00-0	0.20-30.00mm	0.01mm	$+0/-0.002\text{mm}$

Class X Pin Gage

697 Series



697-21-0

Features

- All pin gages are traceable to N.I.S.T.
- Increments of 0.001"
- Size is laser - etched on each product and the box. (Sizes from 0.0110 - 0.0600" are not marked on the product)
- Uniform 2" overall length
- All sharp corners broken
- Material: Bearing Steel
- Heat treated to a hardness of 60-62 Rockwell C

Class X Tolerance

Plus Tolerance	+0.00004"
	-0.00000"
Minus Tolerance	+0.00000"
	-0.00004"

Sets Plus Tolerance

Code No.	Size Range	Step	Pieces
697-31-0	0.011-0.060"	0.001"	50
697-32-0	0.061-0.250"	0.001"	190
697-33-0	0.251-0.500"	0.001"	250
697-34-0	0.501-0.625"	0.001"	125
697-35-0	0.626-0.750"	0.001"	125
697-36-0	0.751-0.832"	0.001"	82
697-37-0	0.833-0.916"	0.001"	84
697-38-0	0.917-1.000"	0.001"	84

Sets Minus Tolerance

Code No.	Size Range	Step	Pieces
697-31-2	0.011-0.060"	0.001"	50
697-32-2	0.061-0.250"	0.001"	190
697-33-2	0.251-0.500"	0.001"	250
697-34-2	0.501-0.625"	0.001"	125
697-35-2	0.626-0.750"	0.001"	125
697-36-2	0.751-0.832"	0.001"	82
697-37-2	0.833-0.916"	0.001"	84
697-38-2	0.917-1.000"	0.001"	84

Individual Plus Tolerance

Code No.	Size Range	Step
27-0011 to 27-1000	0.011-1.000"	0.001"

Individual Minus Tolerance

Code No.	Size Range	Step
28-0011 to 28-1000	0.011-0.060"	0.001"

Class Z Pin Gage

697 Series



697-11-0

Features

- All pin gages are traceable to N.I.S.T.
- Increments of 0.001"
- Size is laser - etched on each product and the box. (Sizes from 0.0110 - 0.0600" are not marked on the product)
- Uniform 2" overall length
- All sharp corners broken
- Material: Bearing Steel
- Heat treated to a hardness of 60-62 Rockwell C

Class Z Tolerance

Plus Tolerance	+0.0001"
	-0.0000"
Minus Tolerance	+0.0000"
	-0.0001"

Sets Plus Tolerance

Code No.	Size Range	Step	Pieces
697-21-0	0.011-0.060"	0.001"	50
697-22-0	0.061-0.250"	0.001"	190
697-23-0	0.251-0.500"	0.001"	250
697-24-0	0.501-0.625"	0.001"	125
697-25-0	0.626-0.750"	0.001"	125
697-26-0	0.751-0.832"	0.001"	82
697-27-0	0.833-0.916"	0.001"	84
697-28-0	0.917-1.000"	0.001"	84

Individual Plus Tolerance

Code No.	Size Range	Step
25-0011 to 25-1000	0.011-1.000"	0.001"

Sets Minus Tolerance

Code No.	Size Range	Step	Pieces
697-21-2	0.011-0.060"	0.001"	50
697-22-2	0.061-0.250"	0.001"	190
697-23-2	0.251-0.500"	0.001"	250
697-24-2	0.501-0.625"	0.001"	125
697-25-2	0.626-0.750"	0.001"	125
697-26-2	0.751-0.832"	0.001"	82
697-27-2	0.833-0.916"	0.001"	84
697-28-2	0.917-1.000"	0.001"	84

Individual Minus Tolerance

Code No.	Size Range	Step
26-0011 to 26-1000	0.011-0.060"	0.001"

Pin Gauge Sets

697 Series



679-02-0

FEATURES

- All pin gages are traceable to N.I.S.T.
- Increments of 0.001"
- Size is laser -etched on each product and the box.
(Sizes from 0.0110 -0.0600" are not marked on the product)
- Uniform 2" overall length
- All sharp corners broken
- Material: Bearing Steel
- Heat treated to a hardness of 60-62 Rockwell C

Class Z Tolerance

Plus Tolerance	+0.0002"
	-0.0000"
Minus Tolerance	+0.0000"
	-0.0002"

Accuracy: +0.0002" -0"		Accuracy: -0.0002" +0"		Sets	
Code No.	Code No.	Qty.	Range	Surface	
697-01-0	697-01-2	50	.011"-.060" x 0.001 Step	Bright Finish	
697-02-0	697-02-2	190	.061"-.250" x 0.001 Step	Bright Finish	
697-03-0	697-03-2	250	.251"-.500" x 0.001 Step	Bright Finish	
697-04-0	697-04-2	125	.501"-.625" x 0.001 Step	Bright Finish	
697-05-0	697-05-2	125	.626"-.750" x 0.001 Step	Bright Finish	
697-06-0	697-06-2	82	.751"-.832" x 0.001 Step	Bright Finish	
697-07-0	697-07-2	84	.833"-.916" x 0.001 Step	Bright Finish	
697-08-0	697-08-2	84	.917"-1.000" x 0.001 Step	Bright Finish	

Individual Plus Tolerance

Code No.	Size Range	Step
21-0011 to 21-1000	0.011-1.000"	0.001"

Individual Minus Tolerance

Code No.	Size Range	Step
26-0011 to 26-1000	0.011-0.060"	0.001"

697 Series



Code No.	Gauge Size Range
697-41-0	0.011"-0.060"
697-41-1	0.061"-0.250"
697-41-2	0.251"-0.500"
697-41-3	0.501"-0.625"
697-41-4	0.626"-0.750"
697-41-5	0.751"-0.832"
697-41-6	0.833"-1.000"

FEATURES

- Comfortable, ergonomically designed handle for pin gauge
- Can be used with GO pin (green) on one end, NO GO pin (red) on opposite end

697 Series



FEATURES

- 48 wires — 16 different sizes.
- Measures all threads from 3 - 48 threads per inch.
- Measures all metric threads from 0.5 mm to 6 mm.
- Also measures ACME threads.
- Laminated chart included.

Code No.
697-30-0

Force Gauges

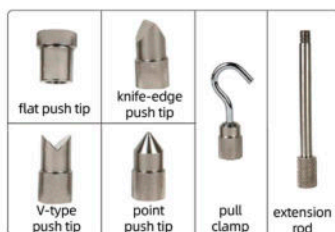
310	Digital Force Gauges
311	Sensor
312	Force Measurement Test Stands
312	Motorized Test Stands
313	Digital Torque Indicators
314	Digital Bottle Cap Torque Indicators
314	Digital Torque Indicators
315	Torque Measurement Test Stands

Digital Force Gauges

701 Series



701-30-0



FEATURES

- Push and pull test
- Selectable Units: N, kgf, lbf, gf, ozf, mN
- Reverse display setting
- Overload protection mechanism to prevent it from being damaged
- Equipped with a Touch key to minimize disturbance
- Compression Force Gauges feature mechanical overload protection
- Adopts curve or digital display modes
- Automatic power off
- Metal case

Code No.	Model	Load Capacity	Resolution	Accuracy	Measurement Mode
701-30-0	ASFG 10	10 N	0.001 N	±0.2% F.S.	Track, Peak, Preset Peak
701-30-1	ASFG 50	50 N	0.005 N	±0.2% F.S.	Track, Peak, Preset Peak
701-30-2	ASFG 100	100 N	0.01 N	±0.2% F.S.	Track, Peak, Preset Peak
701-30-3	ASFG 200	200 N	0.05 N	±0.2% F.S.	Track, Peak, Preset Peak
701-30-4	ASFG 500	500 N	0.05 N	±0.2% F.S.	Track, Peak, Preset Peak
701-30-5	ASFG 1000	1000 N	0.1 N	±0.2% F.S.	Track, Peak, Preset Peak

Digital Force Gauges

701 Series



701-50-0

FEATURES

- Push, Pull and Pressure test
- Automatic load cell identification
- Equipped with a Touch key to minimize disturbance
- Curve or digital display modes
- Selectable Units: N,KN, kgf, lbf, gf, ozf
- Overload protection mechanism to prevent it from being damaged
- Automatic power off
- Metal case

Code No.	Model	Sensor Model	Range	Resolution	Accuracy	Load model
701-50-0	ASFGS10S-2K-S	ASP-F2K-S	2000N	0.5N	±0.2% F.S.	Push, Pull
701-50-1	ASFGS10S-5K-S	ASP-F5K-S	5000N	0.5N	±0.2% F.S.	
701-50-2	ASFGS10S-10K-S	ASP-F10K-S	10000N	1 N	±0.2% F.S.	
701-50-3	ASFGS10S-10K-R	ASP-F10K-R	10000N	1 N	±0.2% F.S.	Pressure
701-50-4	ASFGS10S-50K-R	ASP-F50K-R	50000N	5 N	±0.2% F.S.	
701-50-5	ASFGS10S-100K-R	ASP-F100K-R	100000N	10 N	±0.2% F.S.	
701-50-6	ASFGS10S-200K-R	ASP-F200K-R	200000N	50 N	±0.2% F.S.	

Sensor

701 Series

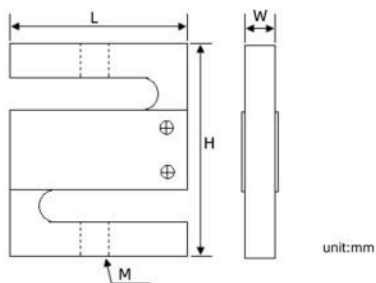


Push, Pull Sensor

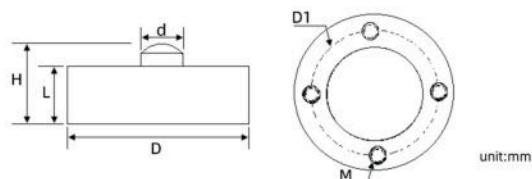


Pressure Sensor

Sensor Model	Push, Pull Sensor	Pressure Sensor
Sensitivity	$\pm 2.0\%$ mV/V	$\pm 2.0\%$ mV/V
Zero Balance	$\pm 2\%$ F.S.	$\pm 2\%$ F.S.
Nonlinear Error	0.03% F.S.	0.05% F.S.
Lag Error	0.03% F.S.	0.05% F.S.
Repeatability	0.03% F.S.	0.05% F.S.
Creep	0.03%	0.05%
Temperature Effect	0.03% F.S./10° C	0.03% F.S./10° C
Safe Overload	150% F.S.	150% F.S.



Code No.	Push, Pull Sensor Model	Range	L	H	W	M
701-51-1	ASP-F2K-S	2000N	51mm	76.2mm	19mm	M12
701-51-2	ASP-F5K-S	5000N			25.4mm	
701-51-3	ASP-F10K-S	10000N				
701-51-4	ASP-F20K-S	20000N				



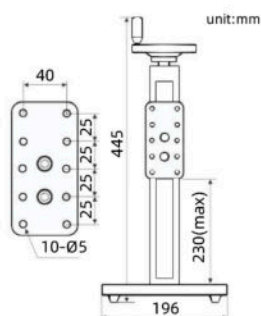
Code No.	Pressure Sensor Model	Range	D	d	D1	H	L	M
701-52-1	ASP-F10K-R	10000N	82mm	22mm	68mm	44mm	32mm	M8
701-52-2	ASP-F50K-R	50000N						
701-52-3	ASP-F100K-R	100000N						
701-52-4	ASP-F200K-R	200000N	126mm	35mm	40mm	54mm	101mm	M10

Force Measurement Test Stands

701 Series



701-39-0



FEATURES

- The manual test stand is easy to use with its rugged construction
- Equipped with hand wheel
- The testing capacities of this manual test stand are up to 125kg (250lbf,1200N)
- The stand travels 3 mm per turn
- Only for 701-30-X series
- Digital force gauges and digital scales are not included

Code No.	Model	Maximum Applied Force	Load Stroke	Throat Depth	Size
701-39-0	ASST-FG1	1200N	230mm	56.8mm	445x250x196mm

Motorized Test Stands

701 Series



701-39-1

FEATURES

- Motorized driving
- The capacity of this force gauge test stand is up to 650 N
- Multiple operation modes are available
- Three-stage programmable cycle
- Teaching & Playback programming
- Force gauge data integration
- USB connection to PC
- Multiple limit protection functions to ensure the safe running of motorized force gauge test stand
- Only for 701-30-X series
- Digital force gauges is not included

Code No.	701-39-1
Capacity	650N
Stroke	220 mm
Speed	Adjustable Range: 30~720 mm/min Resolution:0.1 mm/min Accuracy: ±1 mm/min
Displacement	Resolution: 0.01 mm Accuracy: ±0.2mm/min
Operation Mode	Manual, Cycle, Demo, Locating Mode
Protection Functions	Position Limit Force Limit (Connected To Force Gauge) Locked Rotor. Power Protection
Cycle Program	Three-Stage Cycle Displacement-Based (D-Cycle) Force-Based(F-Cycle)
Outputs	USB-B(Connect To PC) RS232 Outputs Set Point Output, RS232(Connect With Force Gauge)
Power Supply	AC100~240V,1A

Digital Torque Indicators

701 Series



701-60-0

FEATURES

- External sensor
- Selectable Units: N·m, N·cm, kgf·cm, lbf·ft, lbf·in
- Automatic sensor identification
- Automatic reversible display
- Equip Touch key for minimized disturbance
- Curve or digital display modes
- Overload protection mechanism to prevent damage
- USB or RS232 communication interface, easy to communicate with PLC
- Sampling Rate: up to 2KHz
- Automatic power off
- Metal case

Code No.	Model	Load Capacity	Resolution	Clamp Diameter	Sampling Frequency	Accuracy
701-60-0	ASTT A1	1N.m	0.0001N.m	1-10mm	2000Hz	±0.3%
701-60-1	ASTT A5	5N.m	0.0005N.m	1-10mm	2000Hz	±0.3%
701-60-2	ASTT A10	10N.m	0.001N.m	2-13mm	2000Hz	±0.3%

Digital Torque Indicators

701 Series



701-61-0

FEATURES

- Selectable Units: N·m, N·cm, kgf·cm, lbf·ft, lbf·in
- Automatic load cell identification
- Reverse display setting
- Curve or digital display modes
- Overload protection mechanism to prevent damage
- USB or RS232 communication interface, easy to communicate with PLC
- Sampling Rate: up to 2KHz
- Automatic power off

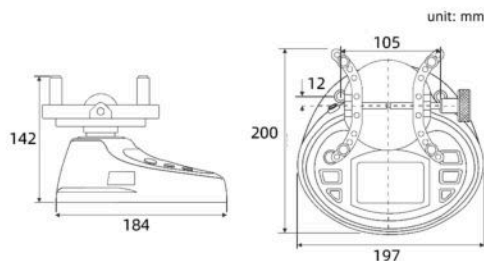
Code No.	Model	Range	Resolution	Sampling Frequency	Accuracy	Adaptor
701-61-0	ASTT B2	0.1-2N.m	0.0002N.m	2000Hz	±0.3%	1/4 " or 1/2"
701-61-1	ASTT B5	0.25-5N.m	0.0005N.m	2000Hz	±0.3%	
701-61-2	ASTT B10	0.5-10N.m	0.001N.m	2000Hz	±0.3%	
701-61-3	ASTT B20	1-20N.m	0.002N.m	2000Hz	±0.3%	3/8 " or 1/2"
701-61-4	ASTT B50	2.5-50N.m	0.005N.m	2000Hz	±0.3%	
701-61-5	ASTT B100	5-100N.m	0.01N.m	2000Hz	±0.3%	

Digital Bottle Cap Torque Indicators

701 Series



701-62-0



FEATURES

- Selectable Units: N·m, N·cm, kgf·cm, lbf·ft, lbf·in
- Automatic load cell identification
- Reverse display setting
- Curve or digital display modes
- Overload protection mechanism to prevent damage
- USB or RS232 communication interface, easy to communicate with PLC
- Sampling Rate: up to 2KHz
- Automatic power off

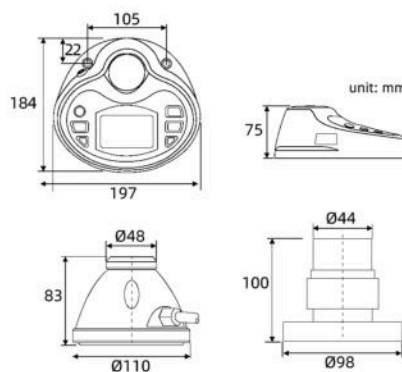
Code No.	Model	Range	Resolution	Sampling Frequency	Accuracy
701-62-0	ASCT2	0.1-2N.m	0.0002N.m	2000Hz	±0.3%
701-62-1	ASCT5	0.25-5N.m	0.0005N.m	2000Hz	±0.3%
701-62-2	ASCT10	0.5-10N.m	0.001N.m	2000Hz	±0.3%
701-62-3	ASCT20	1-20N.m	0.002N.m	2000Hz	±0.3%

Digital Torque Indicators

701 Series



701-63-0



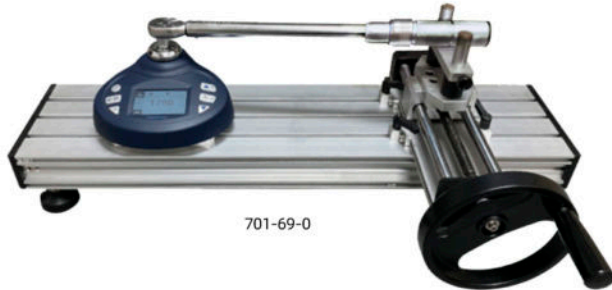
FEATURES

- Selectable Units: N·m, N·cm, kgf·cm, lbf·ft, lbf·in
- Automatic load cell identification
- Reverse display setting
- Curve or digital display modes
- Overload protection mechanism to prevent damage
- USB or RS232 communication interface, easy to communicate with PLC
- Sampling Rate: up to 2KHz
- Automatic power off

Code No.	Model	Range	Resolution	Sampling Frequency	Accuracy	Adaptor
701-63-0	ASTTC10	0.5-10N.m	0.001N.m	2000Hz	±0.3%	1/2 " or 1/4"
701-63-1	ASTTC20	1-20N.m	0.002N.m	2000Hz	±0.3%	3/8 " or 1/2"
701-63-2	ASTTC50	2.5-50N.m	0.005N.m	2000Hz	±0.3%	
701-63-3	ASTTC100	5-100N.m	0.01N.m	2000Hz	±0.3%	
701-63-4	ASTTC200	10-200N.m	0.02N.m	2000Hz	±0.3%	
701-63-5	ASTTC500	25-500N.m	0.05N.m	2000Hz	±0.3%	3/4 "
701-63-6	ASTTC800	40-800N.m	0.1N.m	2000Hz	±0.3%	

Torque Measurement Test Stands

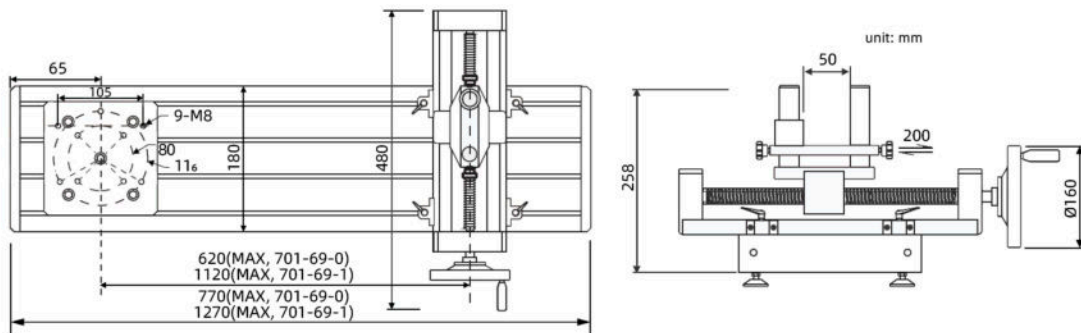
701 Series



701-69-0

FEATURES

- Hand wheel screw loading is more labor-saving
- Optional measuring table suitable for torque wrenches of different lengths
- The position of the handle can be adjusted up and down
- Double-layer aluminum alloy, more stable measurement
- For 701-61-X and 701-63-X series
- Digital torque indicators and torque wrenches not included



Code No.	Model	Loading Mode	Arm Length	Stroke	Force Sensor Capacity
701-69-0	ASST-500	Threaded rod	150~600mm	200mm	1000N
701-69-1	ASST-1000	Threaded rod	150~1000mm	200mm	1000N

Testers & Optical Instrument

317	VisionOne Measuring System	347	Digital Coating Thickness Gauges
318	Manual 2D Vision Measuring System	348	Ultrasonic Thickness Gauges
319	Manual 2D Vision Measuring System (Auto Focus)	349	Leeb Digital Hardness Testers
320	CNC 2D Vision Measuring System (Economic type)	350	Impact Hardness Testers
321	CNC 2D Vision Measuring System	351	Digital Shore Durometer Hardness Testers
322	CNC 2D Vision Measuring System (Gantry Type)	351	Test Stand For Digital Shore Durometers
323	RationalVue Mesuring Software		Hardness Testers
324	Contour Measuring Machine	352	Digital Shore Scale Durometers
325	Contour & Roughness Integrated Machine	352	Shore Scale A Durometers
326	Roundness Measuring Machine	353	Rockwell Type Hardness Testers
327	Roundness & Cylindricity Integrated Machine	355	Digital Rockwell Hardness Testers
328	Auto Focus Microscope	356	Digital Twin Rockwell Hardness Testers
329	Stereo Microscopes	357	Brinell Hardness Testers
331	2D Height Gauge Value ^{Plus} 300/600	358	Digital Brinell Hardness Testers
332	Vertical Profile Projectors	359	Hammer Type Brinell Hardness Testers
333	Horizontal Profile Projectors	360	Digital Vickers Hardness Testers
335	Concentricity Gauges	362	Brinell Rockwell Vickers Hardness Testers
336	Bench Centers	363	Digital Brinell Rockwell Vickers Hardness Testers
337	Vertical Bench Centers	364	Webster Hardness Tester
338	Surface Roughness Testers	365	Portable Refractometers
339	Surface Roughness Tester Optional Accessories	365	Digital Refractometers
346	Surface Roughness Standards		



VisionOne Measuring System

643 Series

NEW



643-40-1

Capable

Reliable

Fast

Easy

FEATURES

- Instant measurement within FOV with just one touch, maximum support 300*200mm range
- Multiple objects at any position, up to 100 parts
- Dual telecentric lens, eliminating human measurement errors, constant high accuracy
- Measured result can be exported to report automatically
- User friendly software, anyone can measure in short time
- 8055 point spectrum is optional for height measurement
- Both hardware and software customization are available
- Special functions available, such as import and compare CAD drawing, Gear measurement, thread measurement etc

Code No.				643-40-1	643-40-2	643-40-3	643-40-4	643-40-5	
Imaging Measurement	Field of View	High-precision Measurement Mode		26x18mm	126x117x75mm	226x117x75mm	226x117x75mm	205x104x75mm	
		Wide field Measurement Mode		Ø100mm	200x200x75mm	300x200x75mm	300x200x75mm	223x118x75mm	
	Repeatability	High-precision Measurement Mode		±0.5µm					
		Wide field measurement mode		±1µm					
	Measurement accuracy	High-precision measurement mode	Without Binding	±2µm					±1µm
			With Binding	/	±(2+L/50)µm				
		Wide field of view	Without Binding	±4µm					±1.5µm
			Connected	/	±(4+L/50)µm				
Height measurement	Repeatability			/			±2µm		
	Measurement Accuracy			/			±(3.5+L/50)µm		
	Working Distance			/			55mm		
	Range			/			±3mm		
Optical System	At The Opportune Moment			1" 20 Megapixel B/W CMOS Camera*2				1" 12-megapixel black-and-white CMOS camera	
	Lens			Double-magnification bilateral telecentric lens				4K HD Lens	
	Illumination			Liftable quad white ring light + green gap light source					
	Silhouette Light			Green parallel bottom light source					
	Coaxial Optical			Built-in coaxial light source (optional)				Built-in coaxial light source	
Height sensors	Spectral Confocal Probes			/			8055		
	Spectral Measurement Range						122×100×75mm	145×95×75mm	
	Mirror Measurement Angle						±13.6°		
	Spot Size						17µm		
	Linear Accuracy						0.02%F.S.		



Manual 2D Vision Measuring System

647 Series



647-01-0

FEATURES

- High precision marble base and mechanical structure provide great stability and rigidity.
- 6.5X Detented zoom lens, magnification 0.7x-4.5x
- 1.3M pixel digital camera
- Programmable 3-ring 8-division LED surface illumination
- Contour parallel LED illumination
- 0.5μm linear scale
- Laser indicator navigator
- RationalVue software

OPTIONAL

- Co-axial light
- Auto zoom lens
- Touch probe

Code No.	647-01-0	647-03-0	647-04-0	647-05-0
X/Y-axis Travel	200x100mm	300x200mm	400x300mm	500x400mm
Dimension(WxDxH)	550x540x830mm	600x740x890mm	700x840x890mm	800x940x890mm
Net Weight	82Kg	123Kg	180Kg	552Kg
Z-axis Travel	200mm			
X/Y/Z-axis Scale	Resolution: 0.5μm			
X/Y-axis Accuracy* (E1)	≤ 2.5+L/200 (μm)	≤ 2.5+L/200 (μm)	≤ 2.5+L/200 (μm)	≤ 3+L/200 (μm)
Repeatability	± 2μm			
Base and Pillar	High Accuracy Marble			
Illumination System (Software Adjustment)	Surface: Stepless Adjustable 3-ring 8-division LED Cold Illumination			
	Contour: LED Parallel Illumination			
	LED Laser Navigation Lights (Optional)			
Camera	1.3M Pixel Digital Camera			
Zoom lens* *	6.5X High Resolution Detented Zoom Lens			
	Magnification: 0.7X~4.5X ; Video Magnification: 20X~200X			
Field of View	8.1~1.3mm (Depends on Camera and Lens)			
Working Environment	Temperature: 20° C±2° C, change range < 2° C/hr			
	Humidity: 30% ~80%			
	Vibration< 0.002g, <15Hz			

* L is measuring length, unit is mm, the mechanical accuracy of Z-axis and focus accuracy is greatly related to the surface of the workpiece.

** Video Magnification is approximate value, it is related to the dimension of monitor and resolution.



Manual 2D Vision Measuring System (Auto Focus)

647 Series



647-01-0F

FEATURES

- High precision marble base and mechanical structure provide great stability and rigidity.
- 6.5X Detented zoom lens, magnification 0.7x-4.5x, with magnifican signal feedback
- 1.3M pixel digital camera
- Programmable 3-ring 8-division LED surface illumination
- Contour parallel LED illumination
- 0.5μm linear scale
- Laser indicator navigator with manual pulse generator for
- Z axis movement control
- Auto focus (Z-Axis)
- RationalVue software

OPTIONAL

- Co-axial light
- Auto zoom lens
- Touch probe

Code No.	647-01-0F	647-03-0F	647-04-0F	647-05-0F
X/Y-axis Travel	200x100mm	300x200mm	400x300mm	500x400mm
Dimension(WxDxH)	550x540x830mm	600x740x890mm	700x840x890mm	800x940x890mm
Net Weight	82Kg	123Kg	180Kg	552Kg
Z-axis Travel	200mm			
X/Y/Z-axis Scale	Resolution: 0.5μm			
X/Y-axis Accuracy* (E1)	≤ 2.5+L/200 (μm)	≤ 2.5+L/200 (μm)	≤ 2.5+L/200 (μm)	≤ 3+L/200 (μm)
Repeatability	± 2μm			
Base and Pillar	High Accuracy Marble			
Illumination System (Software Adjustment)	Surface: Stepless Adjustable 3-ring 8-division LED Cold Illumination			
	Contour: LED Parallel Illumination			
	LED Laser Navigation Lights (Optional)			
Camera	1.3M Pixel Digital Camera			
Zoom lens* *	6.5X High Resolution Detented Zoom Lens			
	Magnification: 0.7X~4.5X ; Video Magnification: 20X~200X			
Field of View	8.1~1.3mm (Depends on Camera and Lens)			
Working Environment	Temperature: 20° C±2° C, change range < 2° C/hr			
	Humidity: 30% ~80%			
	Vibration< 0.002g, <15Hz			

* L is measuring length, unit is mm, the mechanical accuracy of Z-axis and focus accuracy is greatly related to the surface of the workpiece.

** Video Magnification is approximate value, it is related to the dimension of monitor and resolution.



CNC 2D Vision Measuring System (Economic type)

647 Series



647-13-1E

FEATURES

- High precision marble base and mechanical structure provide great stability and rigidity.
- Can set auto measurement, and process batch measurement with high efficiency.
- 6.5X Detented zoom lens, magnification 0.7x-4.5x
- 1.3M pixel digital camera
- Programmable 5-ring 8-division LED surface illumination
- Contour parallel LED illumination
- 0.5 μ m linear scale
- Joystick control
- RationalVue software

OPTIONAL

- Co-axial light
- Auto zoom lens
- Touch probe
- MCR20 rack

Code No.	647-13-1E	647-14-1E	647-15-1E
X/Y-axis Travel	300x200mm	400x300mm	500x400mm
Dimension(WxDxH)	790x640x1540mm	960x770x1540mm	1060x870x1540mm
Net Weight	200Kg	320Kg	450Kg
Z-axis Travel	200mm		
X/Y/Z-axis Scale	Resolution: 0.5 μ m		
X/Y-axis Accuracy* (E1)	$\leq 2.5+L/200$ (μ m)		
Repeatability	$\pm 2\mu$ m		
Base and Pillar	High Accuracy Marble		
Illumination System (Software Adjustment)	Surface: 5-ring 8-division 0~255 grade continue adjustable		
	Contour: LED Parallel Illumination		
CCD Camera	1.3M Pixel Digital Camera		
Zoom lens**	6.5X High Resolution Detented Zoom Lens		
	Magnification: 0.7X~4.5X ; Video Magnification: 20X~200X		
Field of View	8.1~1.3mm (Depends on Camera and Lens)		
Working Environment	Temperature: 20° C $\pm$ 2° C, change range < 2° C/hr		
	Humidity: 30% ~80%		
	Vibration< 0.002g, <15Hz		

* L is measuring length, unit is mm, the mechanical accuracy of Z-axis and focus accuracy is greatly related to the surface of the workpiece.

** Video Magnification is approximate value, it is related to the dimension of monitor and resolution.



CNC 2D Vision Measuring System

647 Series



FEATURES

- High precision marble base and mechanical structure provide great stability and rigidity.
- Can set auto measurement, and process batch measurement with high efficiency.
- Auto zoom lens 1-10x
- 2.0M pixel digital camera
- Programmable 5-ring 8-division LED surface illumination
- Contour parallel LED illumination
- 0.1μm linear scale
- Joystick control
- RationalVue software

OPTIONAL

- Co-axial light
- Laser sensor
- Touch probe
- MCR20 rack

Code No.	647-03-1	647-04-1	647-05-1	647-06-1
X/Y-axis Travel	300x200mm	400x300mm	500x400mm	600x500mm
Dimension(WxDxH)	1600x780x1700mm	1750x920x1700mm	1850x1180x1700mm	1950x1280x1700mm
Net Weight	380Kg	450Kg	560Kg	655Kg
Z-axis Travel	200mm			
X/Y/Z-axis Scale	Resolution: 0.1μm			
X/Y-axis Accuracy* (E1)	≤ 2.5+L/200 (μm)			
Repeatability	± 2μm			
Base and Pillar	High Accuracy Marble			
Illumination System (Software Adjustment)	Surface: 5-ring 8-division 0~255 grade continue adjustable			
	Contour: LED Parallel Illumination			
	LED Laser Navigation Lights (Optional)			
CCD Camera	2.0M Pixel Digital Camera			
Zoom lens**	Automatic Zoom Lens			
	Optical Magnification 1 - 10 Times			
Field of View	8.1~1.3mm (Depends on Camera and Lens)			
Working Environment	Temperature: 20° C±2° C, change range < 2° C/hr			
	Humidity: 30% ~80%			
	Vibration< 0.002g, <15Hz			

* L is measuring length, unit is mm, the mechanical accuracy of Z-axis and focus accuracy is greatly related to the surface of the workpiece.

** Video Magnification is approximate value, it is related to the dimension of monitor and resolution.



CNC 2D Vision Measuring System (Gantry Type)

647 Series



647-05-2

FEATURES

- High precision marble base and mechanical structure provide great stability and rigidity.
- Fully auto close loop control, auto measurement.
- Can set auto measurement, and process batch measurement with high efficiency.
- Auto zoom lens with co-axial light
- 2.0M pixel digital camera
- Programmable 5-ring 8-division LED surface illumination
- Contour parallel LED illumination
- RSF / Renishaw 0.1 μ m linear scale
- Joystick control
- RationalVue software

OPTIONAL

- Laser sensor
- Touch probe
- MCR20 rack

Code No.	647-05-2	647-06-2	647-08-2
X/Y-axis Travel	500x400mm	600x500mm	800x600mm
Dimension(WxDxH)	1700x1180x1750mm	1700x1180x1750mm	1700x1280x1750mm
Net Weight	1400Kg	1500Kg	1800Kg
Z-axis Travel	200mm		
X/Y/Z-axis Scale	Resolution: 0.1 μ m		
X/Y-axis Accuracy* (E1)	$\leq 2.0+L/200$ (μ m)		
Repeatability	$\pm 2\mu$ m		
Base and Pillar	High Accuracy Marble		
Illumination System (Software Adjustment)	Surface: 5-ring 8-division 0~255 grade continue adjustable		
	Contour: LED Parallel Illumination		
	LED Laser Navigation Lights (Optional)		
CCD Camera	2.0M Pixel Digital Camera		
Zoom lens**	Auto zoom lens with co-axial light		
Field of View	8.1~1.3mm (Depends on Camera and Lens)		
Working Environment	Temperature: 20° C $\pm$ 2° C, change range < 2° C/hr		
	Humidity: 30% ~80%		
	Vibration< 0.002g, <15Hz		

* L is measuring length, unit is mm, the mechanical accuracy of Z-axis and focus accuracy is greatly related to the surface of the workpiece.

** Video Magnification is approximate value, it is related to the dimension of monitor and resolution.

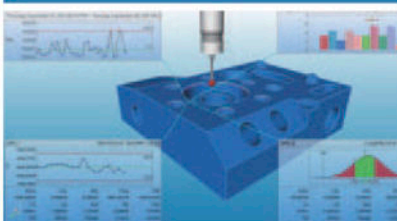
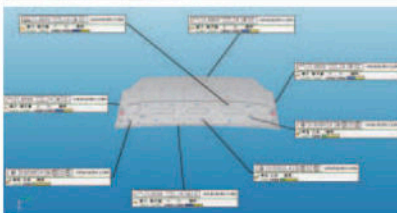


RationalVue Mesuring Software

647 Series

RationalVue fully inherited the features of CAD, with seamless link, 100% graphical display, fast drag-and-drop operation, real-time ratio, multiple graphic reports, advanced algorithm. So as to make it operate simply and functional, as well as to ensure the advanced nature and reliability of the algorithm.

RationalVue is a kind of authentic 3D composite measuring software, leading vision measuring into 3D era, which has greatly expanded the applications of vision measuring machine. So as to make it authentically widely used in Hardware, Mold, Machining, Precision manufacturing, Automotive parts, Stamping, Aerospace components, Plastic and rubber products, Mobile phone industry, PCB board, Electronic components, Semiconductor components, Medical devices and other fields.

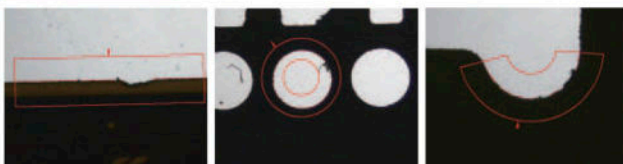


Comparison based on multiple 3D format

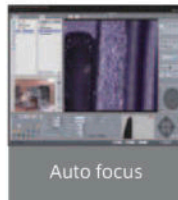
- The software allows users to input 3D files or igs format or CAD files of DXF format.
- The CAD file can be used for measuring, guiding the software to do comparison between the theoretical values and the measured results.

Special edge measuring

Burrs filtering



RationalVue is able to filter the burrs of the measuring parts edge, increase the measuring accuracy.



Measuring height and flatness by focusing

- Thanks to the advance focusing algorithm from RationalVue, the machine can achieve fast and precise focus operation to the parts; finish the focusing process within 2-3 seconds. The repeatability of the focusing can be up to 0.003mm, which is able to be used for measuring of height or flatness.



Supporting laser sensor measuring

- RationalVue is offering professional laser measuring function, allows users to set pace and achieve non-contact measuring function automatically, complete the calculation of height, flatness and profile tolerance of the curved surface.



PTB certificate

RationalVue software passed PTB certificate, which ensures the software accuracy and reliability by official authority.

Edge sharpen

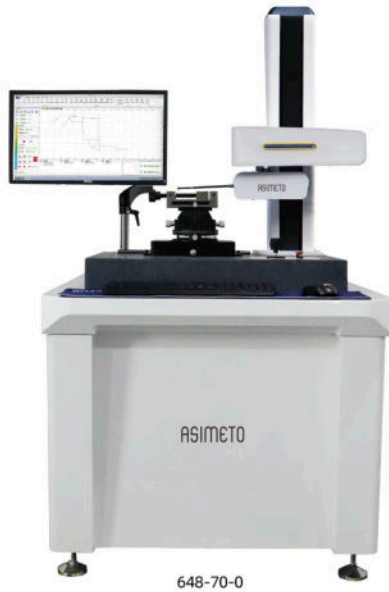


Self-developed advanced edge sharpen function, ensure the software can precisely detected blurry edge or edge with large burrs, which ensure the real automatic measuring function.



Contour Measuring Machine

648 Series

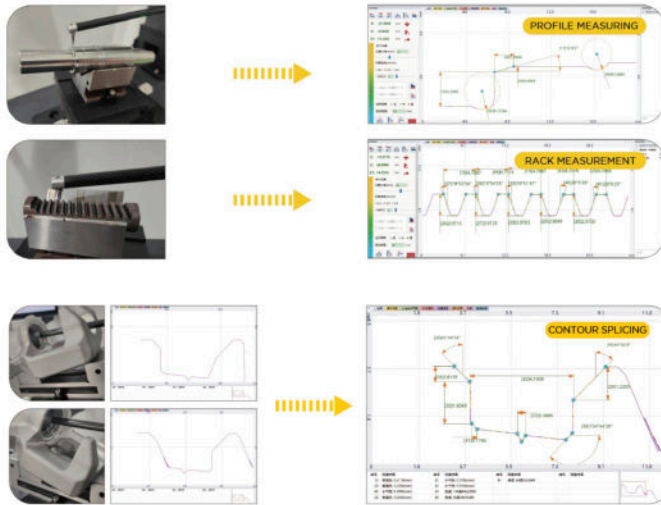


FEATURES

- It can measure the contour of various precision mechanical parts, support automatic measurement, and automatic dimension

MAIN FUNCTIONS

- Point: point, midpoint, intersection, highest point, lowest point
- Line: straight line, tangent line, perpendicular line, parallel line, bisector line
- Angle processing: coordinate angle, linear angle
- Arc processing: arc radius, center distance, distance from center to line, distance from intersection point to center, partial circle, tangent circle
- Other: groove depth, groove width, groove edge distance, groove center distance, horizontal distance and other parameter
- Position tolerance: straightness, convexity, contour degree
- Auxiliary function: including auxiliary point, auxiliary line, auxiliary circle



Part Number		648-70-0	648-70-1	648-70-2
Model		ASMD100	ASMD150	ASMD200
Measuring Range	X-axis Horizontal Guide Rail	100mm	150mm	200mm
	Z1 Axis Sensor	±25mm	±25mm	±30mm
	Z-axis Column	500mm	500mm	500mm
Profile	Linear Precision X	±(1+0.02L)μm ※		±(1.2+0.02L)μm ※
	Linear Precision Z1	±(1+0.05H)μm ※		
	Angle	≤ ±1'		
	Arc	≤ ±(1.2+R/12)μm ※		
	Straightness	0.8μm/100mm	1.2μm/150mm	0.6μm/100mm

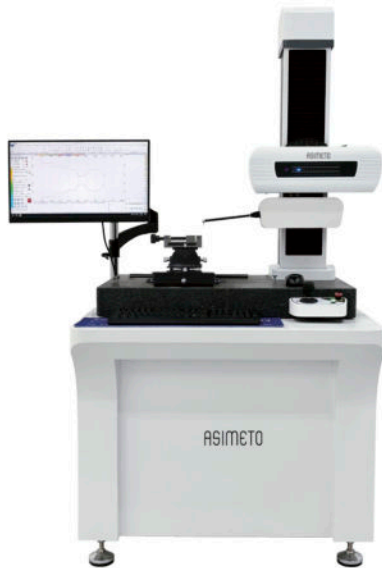
The parameters in the table above are default configurations.

※ L: Measuring distance, H: Gauge altitude, R: Radius of curvature



Contour & Roughness Integrated Machine

648 Series



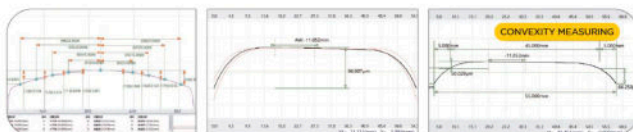
648-71-0

FEATURES

- 60mm big range sensor
- No need replace sensor
- Contour & roughness in one system
- Measuring force gentle with high accuracy
- Software is calibrated automatically
- High resolution 0.001 μ m
- Sampling distance 0.05 μ m
- Perfect data repeatability

MAIN FUNCTIONS

- Point: point, midpoint, intersection point, highest point, lowest point
- Line: straight line, cut line, vertical line, parallel line, flat line
- Circle: round, ellipse, cut circular
- Angle: angle, horizontal angle, vertical angle
- Position tolerance: straightness, convexity, contour, vertical, parallelism
- Auxiliary generation: including auxiliary points, auxiliary lines, auxiliary circles
- Ra, Rq, Rz, Ry, Rz, DIN, R3z, Rz(jis), Rp, Rv, Rt, Rsk, Rsm, Rc, Rpm, Rku, Rdq, Roc, Mr1, Mr2, Rpk, Rvk, Rk, Rdc, A1, A2, Rx, AR, Rcp, Rmax, Rz-ISO
- wt, wa, wp, wv, wq, wc, wku, wsk, w, wx, wz, wsm, wdc, wte, wmr, Aw, c(wmr)wmr(c), wdc



Part Number		648-71-0	648-71-1	648-71-2
Model		ASMDPG100	ASMDPG150	ASMDPG200
Measuring Range	X-axis Horizontal Guide Rail	100mm	150mm	200mm
	Z1 Axis Sensor	± 20 mm	± 25 mm	± 30 mm
	Z-axis Column	500mm	500mm	500mm
Profile	Linear Precision X	$\pm(0.8+0.01L)\mu\text{m} \times$		
	Linear Precision Z1	$\pm(0.8+0.02H)\mu\text{m} \times$		
	Angle	$\leq \pm 1'$		
	Arc	$\leq \pm(1.0+R/12)\mu\text{m} \times$		
	Straightness	0.8 $\mu\text{m}/100\text{mm}$	1.2 $\mu\text{m}/150\text{mm}$	1.5 $\mu\text{m}/200\text{mm}$
Roughness Specs	Indication Error	$\leq \pm(5\text{nm} + 3\%A)$		
	Residual Error	$\leq 0.005\mu\text{m}$		
	Repeatability	3%		
	Cutoff Wave Length	0.025、0.08、0.25、0.8、2.5、8mm		
	Evaluated Length	$\lambda\text{cx } 3、4、5、6、7$		

All the above data are default configuration. Optional configuration is available as request.

$\times$ L: Measuring distance, H: Gauge altitude, R: Radius of curvature, A: Standard value



Roundness Measuring Machine

648 Series



648-74-0

FEATURES

- High-precision air-floating spindle, never wear, long-term accuracy
- Data acquisition by high precision encoder with high accuracy and good stability
- Part of the arc can also be measured and processed
- Automatic identification of contour discontinuities, with automatic or manual elimination function

MAIN FUNCTIONS

- Roundness of ring shape components
- Surface Waviness (Wc, Wv, Wt, Wa, Wq)
- Power Spectrum Analysis
- Wave Height Analysis
- Concentricity, Coaxiality, Squareness, Parallelism, Flatness etc.

Item		648-74-0	648-74-2
Model		ASDP1000	ASDP3000
Measuring Range	Max. Dia.	Ø260mm	Ø400mm
	Min. inner Dia	Ø5mm	
	Max Height	350mm	500mm
Spindle Accuracy	Radial Error	$\pm(0.025+5H/10000)\mu\text{m}$	
	Axial Error	$\pm(0.025+6X/10000)\mu\text{m}$	
Workbench	Table Dia.	Ø160mm	Ø200mm
	Rotation Dia.	Ø300mm	Ø400mm
	Load Wt.	25Kg	50Kg
	Adjustment Range	Adjust The Eccentricity $\pm 2\text{mm}$; Adjust The Level $\pm 1^\circ$	
	Spinning Speed	0-12 rpm	
Horizontal Arm	Horizontal Moving Distance	150mm	180mm
	Moving Speed	0.5-6mm/s or Manual	
Sensor	Range	500 μm (Radius Difference)	
	Resolution	0.005 μm	
	Stylus Shape	Ø2mmRuby Tip (Ø1mm、Ø0.5mm Optional)	
	Measurement Force	1-12g	
Data Acquisition		Imported Grating 7200 Points/Cycle	Imported Grating 14400 Points/Cycle



Roundness & Cylindricity Integrated Machine

648 Series



648-75-0

FEATURES

- High-precision air-floating spindle, never wears, long-term accuracy
- Data acquisition by high precision encoder with high accuracy and good stability
- Part of the arc can also be measured and processed
- Automatic identification of contour discontinuities, with automatic or manual elimination function

MAIN FUNCTIONS

- Roundness, coaxiality, concentricity, pulsation, verticality, parallelism, flatness, surface waviness (Wc, Wp, Wv, Wt, Wa, Wq), spectrum analysis, wave height analysis, etc.
- Roundness evaluation methods (4 kinds): minimum area method, least square method, minimum circumscribed circle method, maximum tangent circle method
- Roundness filter gear: 1、1-500、1-150、1-50、1-15、15-500
- Wave filtering methods: 3-16, 3-17, 15-500, 17-100
- Filtering Form: Gauss (ISO Standard)

Item		648-75-0	648-75-1
Model		ASCA30	ASCA35
Measuring Range	Max. Dia.	Ø300mm	Ø400mm
	Min. inner Dia	Ø5mm	
	Max Height	450mm	550mm
Spindle Accuracy	Radial Error	$\pm(0.025+5H/10000)\mu\text{m}$	
	Axial Error	$\pm(0.025+6X/10000)\mu\text{m}$	
Parallelism Between Rotary Axis And Z-Axis Guideway		2 $\mu\text{m}/300\text{mm}$	2 $\mu\text{m}/400\text{mm}$
Workbench	Table Dia.	Ø160mm	Ø200mm
	Rotation Dia.	Ø320mm	Ø400mm
	Load Wt.	30Kg	50Kg
	Adjustment Range	Adjust The Eccentricity $\pm 2\text{mm}$; Adjust The Level $\pm 1^\circ$	
	Spinning Speed	0-12 rpm	
Vertical Column	Straightness(In Narrow Range)	0.5 $\mu\text{m}/100\text{mm}$	
	Straightness(In Entire Range)	0.8 $\mu\text{m}/300\text{mm}$	0.8 $\mu\text{m}/400\text{mm}$
Horizontal Arm	Horizontal Moving Distance	160mm	180mm
	Moving Speed	0.5-6mm/s or Manual	
Sensor	Range	500 μm (Radius Difference)	
	Resolution	0.005 μm	
	Stylus Shape	Ø2mmRuby Tip (Ø1mm、Ø0.5mm Optional)	
	Measurement Force	1-12g	
Data Acquisition		Imported Grating 7200 Points/Cycle	Imported Grating 14400 Points/Cycle



Auto Focus Microscope

642 series

NEW



642-50-1

FEATURES

- Optical zoom lens. zoom range from 0.7x to 4.5x
- Automatic focus and electric zoom
- Quad-section illumination system
- Multiple high speed output interface, support dual output modes
- Built-in measurement function for quality control
- Customized report for professional needs

	Code No.	642-50-1	642-51-1	642-51-2
Type	Item	Specification		
Parameter	Size	320x308.5x417.5	320x308.5x435.8mm	
	Object Size	Height Max:50mm		
Optical Parameter	Optical Magnification	0.35X ~ 2.25X	0.28x~1.92x	
	Working Distance	88 ± 2mm	95 ± 2mm	
	FOV(DxHxV)mm	Max object distance:18.3x15.9x8.95 Min object distance:2.84x	MIN.: 25.7*14.46 MAX.: 3.75*2.11 (at the Recommended Working Distance)	
Camera Parameter	Sensor	CMOS Color		
	Pixel	2MP(1920*1080)		
	Sensor Size	1/2.8"	1/2"	
	Output Type	HDMI	HDMI/LAN	HDMI/USB
	White Balance	Manual/Auto/Once		
	Exposure Type	Auto/Manual		
	Display FPS	1080P@60FPS		
	Scanning Type	Progressive Scan		
	Zoom Adjustment	Manual	Automatic	
	Electronic Shutter Speed	1/50S(1/60S ~ 1/10000S)		
	Working Temperature	0°C ~ 50°C		
	Storage Type	USB	USB/PC	
Optional	Light Source	Bottom Light, Ring Light, Side Light, Co-axial Light are optional	4 Division Ring Light	



Stereo Microscopes

642 series



642-02-2

FEATURES

- Sharp stereo image over a wide field of view
- Binocular Tube: 360° rotating and 45° inclined
- Square pillar style stand

Code No.	642-02-2	642-02-2B
Zoom Ratio	1:7	1:7
Objective Zoom Range	0.65X-4.5X	0.65X-4.5X
Eyepiece	10X Eyepiece	10X Eyepiece
Working Distance	95mm	95mm
Interpupillary Distance Adjustment Range	55mm-75mm	55mm-75mm
Binocular Head	Inclination of 45°	Inclination Of 45°
Diopter Adjustment	±5 Diopter	±5 Diopter
Optical Body Rotation	360°	360°
Voltage Input	110V/60HZ	220V/50HZ
Top Halogen Lamp	6V/12W Adjustable Brightness	6V/12W Adjustable Brightness
Bottom Fluorescent Lamp	5W	5W

Stereo Microscopes

642 series



642-02-3

FEATURES

- Sharp stereo image over a wide field of view
- Binocular Tube: 360° rotating and 45° inclined
- Universal stand

Code No.	642-02-3
Zoom Ratio	1:7
Objective Zoom Range	0.65X-4.5X
Eyepiece	10X Eyepiece
Working Distance	95mm
Interpupillary Distance Adjustment Range	55mm-75mm
Binocular Head	Inclination Of 45°
Diopter Adjustment	±5 Diopter
Optical Body Rotation	360°



Stereo Microscopes

642 series



642-02-0

FEATURES

- Sharp stereo erect image over a wide field of view
- Binocular Tube 45° inclined binocular head with locked-in eyepiece
- Round pillar style stand

Code No.	642-02-0
Objective Zoom Range	1X-2X
Eyepiece	10X Eyepiece
Working Distance	105mm
Interpupillary Distance Adjustment	55mm-75mm
Binocular Lead	Inclination of 45°
Diopter Adjustment	±5 Diopter
Optical Span Rotation	360°

Stereo Microscopes

642 series



642-02-1

FEATURES

- Sharp stereo image over a wide field of view
- 90° rotational objective, Binocular Tube: 360° rotating and 45° inclined
- Round pillar style stand

Code No.	642-02-1	642-02-1B
Objective Zoom Range	2X-4X	2X-4X
Eyepiece	10X Eyepiece	10X Eyepiece
Working Distance	105mm	105mm
Interpupillary Distance Adjustment	55mm-75mm	55mm-75mm
Binocular Lead	Inclination Of 45°	Inclination Of 45°
Diopter Adjustment	±5 Diopter	±5 Diopter
Optical Span Rotation	360°	360°
Voltage Input	110V/60HZ	220V/50HZ
Top Halogen Lamp	6V/15W Adjustable Brightness	6V/15W Adjustable Brightness
Bottom Fluorescent Lamp	5W	5W



2D Height Gauge Value^{Plus} 300/600

628 Series



628-12-0

FEATURES

- New generation Value^{Plus} 2D height gauge provide 300mm or 600mm measuring range
- New designed probe hold system, measuring range can be extended to 570mm and 870mm
- New designed 8mm diameter probe hold system, compatible with popular standard probe on the market
- New designed operating system and measuring software provide more stability and reliability. Measuring result can be displayed on the 6.4" color screen

	Value ^{Plus} 300	Value ^{Plus} 600
Item Code	628-12-0	628-24-0
Measuring Range (in/mm)	12"/300	24"/600
Extended Measuring Range (mm)	570	870
Probe Holder Diameter (mm)	Ø8	
Resolution (mm)	(2.6+5L) μm *(L unit:m)	
Measuring Accuracy (μm)	Flat $\leq 1\mu\text{m}^*$	
Repeatability (μm)	Spherical $\leq 3\mu\text{m}^*$	
Display	Color LCD, 6.4"	
Motor Max Speed (mm/s)	75	
Drive System	Motor Driver/Manual	
Measuring Force (N)	1.5 $\pm$ 0.5	
Working Temperature ($^{\circ}\text{C}$)	10 to 30	
IP Rate	IP40	
Height (mm)	709	1009
Weight (kg)	20	22
Interfaces	USBx3	
Air Cushion	Yes	
Power Supply	AC Adapter/Battery (Li-Ion)	

*Guaranteed at (20 $\pm$ 1) $^{\circ}\text{C}$ with standard probe



Vertical Profile Projectors

641 Series



641-01-0

FEATURES

- Used to inspect the profiles of a wide variety of parts and components
- Designed to provide an excellent quality image with accurate magnification
- The error of the contour measuring is under 0.08% deviation
- A convenient foot switch transfers the coordinate data to the data processing system
- Provides the data processing system and foot-switch, which are convenient to output and gather the data

Code No.		641-01-0/641-01-1			641-02-0/641-02-1		
Imaging Direction		Obverse/Reverse Image			Obverse/Reverse Image		
Working Table	Stage Size (mm)	340 x 152			404 x 228		
	Glass Table Size(mm)	196 x 96			260 x 160		
	X-Axis Travel (mm)	150			200		
	Y-Axis Travel (mm)	50			100		
	Z-Axis Travel (mm)	90 (For Focusing)			90 (For Focusing)		
	Measuring Accuracy	4.0+L/25 μm L: Measuring Length (mm)			4.0+L/25 μm L: Measuring Length (mm)		
	Resolution (X/Y-axis)	0.001 mm (1μm) Or 0.0005 mm (0.5μm)			0.001 mm (1μm) or 0.0005 mm (0.5μm)		
Projector Screen	Dimension	12"(Ø312 mm), Usable Range > Ø300 mm			12"(Ø312 mm), Usable Range > Ø300 mm		
	Rotary Range	0° -360°			0° -360°		
	Angle Resolution	1' or 0.01°			1' or 0.01°		
Objective Lens	Magnification	10X (Standard)	20X (Optional)	50X (Optional)	10X (Standard)	20X (Optional)	50X (Optional)
	Object View (mm)	Ø30	Ø15	Ø6	Ø30	Ø15	Ø6
	Working Distance (mm)	77.7	44.3	38.4	77.7	44.3	38.4
Data Processing System		DC-3000 Multi-function Data Processing System: Coordinate Skew, mm/Inch Conversion, ABS/INC Conversion, Zero Setting, Calculation, 0°, 90°, 270°, 360° Conversion, Linear Compensation					
Illumination		Transmission And Reflection Light Source: 24V/150W - Halogen Lamp					
Power		110V/220V (AC), 50/60Hz, 400W Total Power					
Light Source Cooling		Forced Air Cooling					
Instruments Dimension (mm)		770 x 550 x 1100			770 x 550 x 1100		
Weight (kgs)		130			160		
Option	Rotary Table			Code No.: 641-05-0			
	Swivel Center Support			Code No.: 641-05-1			
	Edge Detector			Code No.: 641-05-2			

Standard Pack

Main Unit	1 pc
10X Lens	1 pc
Overlay Chart Clip	4 pc
Foot Switch	1 pc
Anti Dust Cover	1 pc

Optional Accessories

Code No.	Description
641-05-0	Rotary Table
641-05-1	Swivel Center Support
641-05-2	Edge Detector
641-06-2A	10X Lens
641-06-3A	20X Lens
641-06-4A	50X Lens
641-06-5A	100X Lens



Horizontal Profile Projectors

641 Series



641-10-0

FEATURES

- Screen is angled 30° from horizontal for clear, easy viewing
- Used to inspect the profiles of a wide variety of parts and components
- Designed to prove an excellent quality image with accurate magnification
- The error of the contour measuring is under 0.08% deviation

Code No.		641-10-0			
Working Table	Stage Size (mm)	400 x 150mm			
	X-Axis Travel (mm)	200mm			
	Z-Axis Travel (mm)	100mm			
	Y-Axis Travel (mm)	75mm			
	Turning Range	±15°			
	Accuracy	(3.5+L/50) μm L: Measuring Length (mm)			
	Resolution (X and Z-axis)	0.5μm			
Projector Screen	Dimension	Ø300mm			
	Rotary Range	0-360°			
	Angle Resolution	1' or 0.01°			
Objective Lens	Magnification	10X (Standard)	20X (Optional)	50X (Optional)	100X (Optional)
	View Field	Ø30mm	Ø15mm	Ø6mm	Ø3mm
	Working Distance (mm)	77.7mm	44.3mm	38.4mm	25.3mm
Data Processing System		DC-3000 Multi-function Data Processing System: Coordinate Skew, mm/Inch Conversion, ABS/INC Conversion, Zero Setting, Calculation, 0°, 90°, 270°, 360° Conversion, Linear Compensation			
Illumination		Transmission And Reflection Light Source: 24V/150W - Halogen Lamp			
Power		AC 100-240V (AC), 50/60Hz, 400W Total Power			
Instruments Dimension (mm)		1090 x 830 x 1010mm			
Weight		160kg			

Standard Pack

Main Unit	1 pc
10X Lens	1 pc
Overlay Chart Clip	4 pc
Foot Switch	1 pc
Anti Dust Cover	1 pc

Optional Accessories

Code No.	Description
641-05-0	Rotary Table
641-05-1	Swivel Center Support
641-05-2	Edge Detector
641-05-7	10X Lens
641-05-8	20X Lens
641-05-9	50X Lens
641-05-6	100X Lens



Horizontal Profile Projectors

641 Series



641-10-2

FEATURES

- Used to inspect the profiles of a wide variety of parts and components
- Designed to provide an excellent quality image with accurate magnification
- The error of the contour measuring is under 0.08% deviation

Code No.		641-10-2				
Working Table	Stage Size	450 x 150mm				
	X-Axis Travel	250mm				
	Z-Axis Travel	150mm				
	Y-Axis Travel	100mm				
	Turning Range	±15°				
	Resolution (X and Z-axis)	(3.5+L/50) μm L is the measuring length in mm				
Projector Screen	Max. Load Capacity	0.5μm				
	Dimension	Ø400 mm				
	Rotary Range	0-360°				
Objective Lens	Angle Resolution	1' or 0.01°				
	Magnification	5X (Optional)	10X (Standard)	20X (Optional)	50X (Optional)	100X (Optional)
	Object View (mm)	Ø80mm	Ø40mm	Ø20mm	Ø8mm	Ø4mm
	Working Distance (mm)	93.7mm	103.9mm	95.1mm	65.7mm	35mm
Data Processing System		DC-3000 Multi-function Data Processing System: Coordinate Skew, mm/Inch Conversion, ABS/INC Conversion, Zero Setting, Calculation, 0°, 90°, 270°, 360° Conversion, Linear Compensation				
Illumination		Transmission And Reflection Light Source: 24V/150W - Halogen Lamp				
Power		AC 100-240V (AC), 50/60Hz, 400W Total Power				
Instruments Dimension		1215 x 646 x 1210mm				
Weight		240kg				

Standard Pack

Main Unit	1 pc
10X Lens	1 pc
Overlay Chart Clip	4 pc
Foot Switch	1 pc
Anti Dust Cover	1 pc

Optional Accessories

Code No.	Description
641-05-0	Rotary Table
641-06-1	5X Lens
641-06-2	10X Lens
641-06-3	20X Lens
641-06-4	50X Lens
641-06-5	100X Lens

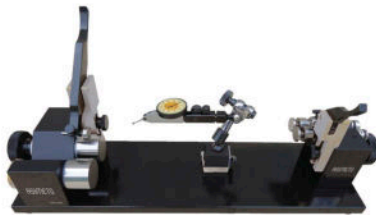


Concentricity Gauges

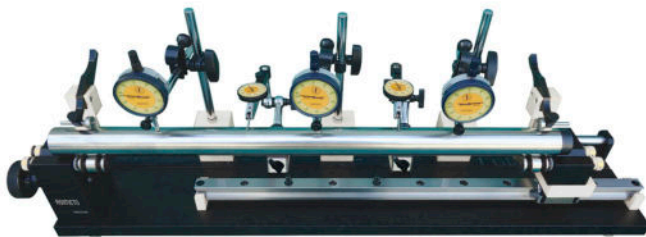
646 Series



646-01-0



646-04-0



646-12-0

FEATURES

- Precision structure with ball bearing slide
- Equipped with Asimeto measuring tools or together with universal magnetic base
- Light and easy to be used to measure concentricity/ eccentricity for parts such as shaft, tube, bush, screw etc
- Dial test indicator and universal magnetic base are not included

Precision Measurement: Geometric Dimensioning and Tolerancing (GD&T)

Circularity		Parallelism	
Cylindricity		Coaxiality	
Profile of a Line		Circular Runout	
Profile of a Surface		Total Runout	

Code No.	Clip Outer Dia. (mm)	Size (mm)	Model
646-01-0	Ø1-Ø30	260 x 98 x 110	CMG-A
646-02-0	Ø1-Ø30	260 x 170 x 150	CMG-AA
646-03-0	Ø30-Ø90	330 x 140 x 95	CMG-AB
646-04-0	Ø1-Ø90	520 x 140 x 200	CMG-ABA
646-05-0	Ø1-Ø40	390 x 98 x 110	CMG-AL
646-06-0	Ø1-Ø30	260 x 98 x 110	CMG-AR
646-07-0	Ø1-Ø35	390 x 98 x 110	CMG-B1
646-08-0	Ø1-Ø35	390 x 98 x 110	CMG-B1R
646-09-0	Ø1-Ø35	500 x 98 x 120	CMG-B3
646-10-0	Ø1-Ø35	500 x 98 x 120	CMG-B3R
646-11-0	Ø1-Ø40	600 x 200 x 250	CMG-A-S3
646-12-0	Ø1-Ø40	850 x 190 x 350	CMG-A-S6
646-13-0	Ø1-Ø40	1250 x 190 x 350	CMG-A-S10



Bench Centers

646 series



646-30-0



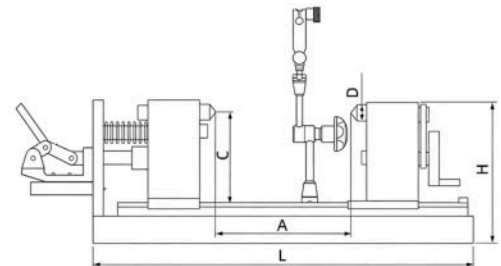
646-30-2



646-30-4

FEATURES

- Equipped with adjustable precision centers at both ends to support the center holes of shaft and bar workpieces, enabling gap-free, high-precision clamping.
- Features a quick-lock handle for fast workpiece positioning and clamping, ideal for batch inspection.
- Fitted with a universal stand that accommodates lever-type indicators, dial indicators, and dial test indicators, allowing free adjustment of angle and position for contact measurement.
- High-rigidity integrated base ensures equipment stability and eliminates vibration-induced measurement errors.
- Designed for inspecting shaft and cylindrical parts, including: Coaxiality, concentricity, circular runout, radial runout, face runout, and eccentricity errors.



Dimensions							
Code No.	Center Height (C)	Distance between two centers (A)	Runout Accuracy	Max Load	L	H	D
646-30-0	60mm	130mm	0.002mm	6kg	380mm	130mm	24mm
646-30-1	60mm	200mm	0.002mm	6kg	480mm	130mm	24mm
646-30-2	60mm	300mm	0.002mm	6kg	580mm	130mm	24mm
646-30-3	60mm	400mm	0.002mm	6kg	680mm	130mm	24mm
646-30-4	60mm	500mm	0.002mm	6kg	780mm	130mm	24mm
646-30-5	60mm	600mm	0.002mm	6kg	880mm	130mm	24mm
646-31-0	100mm	300mm	0.002mm	6kg	580mm	270mm	24mm
646-31-1	100mm	400mm	0.002mm	6kg	680mm	270mm	24mm

*Non standard specifications can be customized on request.



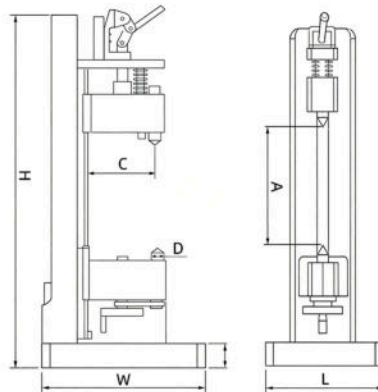
Vertical Bench Centers

646 series



646-33-0

646-33-2



FEATURES

- Equipped with adjustable precision centers at both ends to support the center holes of shaft and bar workpieces, enabling gap-free, high-precision clamping.
- Features a quick-lock handle for fast workpiece positioning and clamping, ideal for batch inspection.
- Fitted with a universal stand that accommodates lever-type indicators, dial indicators, and dial test indicators, allowing free adjustment of angle and position for contact measurement.
- High-rigidity integrated base ensures equipment stability and eliminates vibration-induced measurement errors.
- Designed for inspecting shaft and cylindrical parts, including: Coaxiality, concentricity, circular runout, radial runout, face runout, and eccentricity errors.
- Prevents slender and heavy shafts from bending and deforming due to self-weight deflection.

Dimensions								
Code No.	Center Height (C)	Distance between two centers (A)	Runout Accuracy	Max Load	L	W	H	D
646-33-0	60mm	130mm	0.002mm	25kg	200mm	280mm	540mm	24mm
646-33-1	60mm	170mm	0.002mm	25kg	200mm	280mm	540mm	24mm
646-33-2	60mm	330mm	0.002mm	25kg	200mm	280mm	640mm	24mm
646-33-3	100mm	170mm	0.002mm	25kg	200mm	280mm	540mm	24mm
646-33-4	100mm	330mm	0.002mm	25kg	200mm	280mm	640mm	24mm

*Non standard specifications can be customized on request.



Surface Roughness Testers

645 Series



645-13-0

FEATURES

- 3.5-inch color graphic touch screen, provides high brightness, wide viewing angle
- Display full information, intuitive and graphical displays all parameters
- DSP chip control and data processing, high speed, low power consumption
- 4 Profile Filter: Gauss RC PC-RC D-P
- Multi parameters: Ra, Rz, Rq, Rt, Rp, Rv, R3z, R3y, Rz (JIS), Rs, Rsk, Rsm, Rku, Rc, Ry, Rmax, Rmr, Rpc, Rk, Rpk, Rvk, Mr1, Mr2
- Complies with the following standards: ISO, DIN, ANSI, JIS
- Roughness tester can be operated by mobile phones (only Android system) or computers
- Data can be sent to Excel by connecting to computers via bluetooth or SPC cable - Support bluetooth printer
- Large capacity data storage, can store 100 item of raw data and measured profile
- With automatic sleep, automatic shutdown power saving features

Code No.		645-13-0
Measuring Range		X Axis: 17.5mm/0.69"
		Z Axis: 320μm (-160μm ~ 160μm)/12600μin(-6300μin ~ 6300μin)
Resolution(Ra)		0.001μm
Accuracy		±10%
Probe	Type	Inductive
	Stylus Radius/Angle	5μm/90°
	Stylus Material	Diamond
Measuring Force		4mN
Sampling Length		0.25, 0.8, 2.5mm
Number of cut-offs		1-5
Measuring Speed		0.135, 0.5, 1mm/s, 1mm/s (Return)
Memory		100 measurement results
Output		Bluetooth and USB
Power Supply		Built-In Rechargeable Lithium Ion Battery
Size		Control Unit: 160 x 64 x 53mm

Standard Pack	
Main Unit	1 pc
Axe Sensor	1 pc
Calibration Block and Support	1 pc of each
Connecting cable (long and short)	1 pc of each
Adjustable Stand	1 pc
Touch pen	1 pc
USB cable	1 pc
AC/DC Adapter	1 pc

Optional Accessories	
Axe Sensor	PJ6450-02
Curved Surface Sensor	PJ6450-03
Deep Groove Sensor	PJ6450-04
Small Hole Sensor	PJ6450-05
Very Small Hole Sensor	PJ6450-15
Groove sensor	PJ6450-25
Extension Rod	PJ6450-16
Bluetooth printer	PJ6450-14



Surface Roughness Tester

645 Series

Optional Accessories

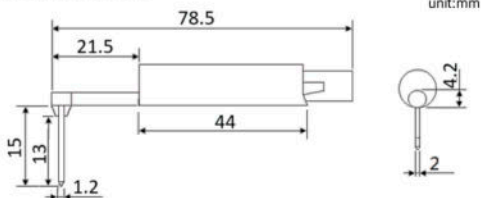
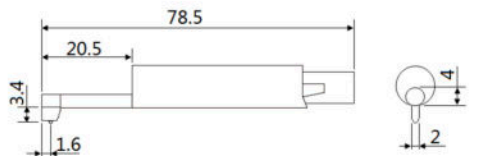
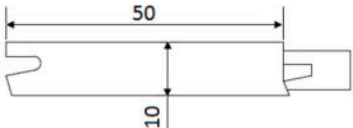
Axe Sensor (Included) Code No. PJ6450-02 unit:mm For measuring the surface roughness of grooves with a width ≥ 2.5mm and a depth ≤ 3mm, and the surface roughness of steps with a height of ≤ 3mm. It can also measure planar and cylindrical surfaces.	Curved Surface Sensor (Optional) Code No. PJ6450-03 unit:mm For measure the surface roughness of concave and convex curved surface workpieces with a radius of curvature greater > 3 mm.
Deep Groove Sensor (Optional) Code No. PJ6450-04 unit:mm For measuring the groove with a width > 3mm and a depth > 10mm, or the surface roughness of the step with a height < 10mm.	Small Hole Sensor (Optional) Code No. PJ6450-05 unit:mm For measuring the inner surface roughness of small holes with diameter > 5mm and depth < 15mm, and it can also measure plane and cylindrical surface.
Tiny Small Hole Sensor (Optional) Code No. PJ6450-15 unit:mm For measuring the inner surface roughness of small holes with diameter > 2mm and depth < 20mm, and it can also measure plane and cylindrical surface.	Narrow Slot Sensor (Optional) Code No. PJ6450-22 unit:mm For measuring grooves with a groove width > 1.5mm and a groove depth ≤ 7mm; or the surface roughness of steps with a height < 10mm.



Surface Roughness Tester

645 Series

Optional Accessories

Deep Groove Curved Surface Sensor(Optional) Code No. PJ6450-23  unit:mm For measuring the surface roughness of flat grooves or curved grooves with groove width $\geq 5\text{mm}$ and groove depth $\leq 15\text{mm}$; it can also measure the surface roughness of flat steps or curved steps with height $\leq 15\text{mm}$.	Groove Sensor (Optional) Code No. PJ6450-25  unit:mm For measure surface for groove with width $\geq 2.5\text{mm}$, depth $\leq 3\text{mm}$, and for steps with height $\leq 3\text{mm}$.
Extension Rod (Optional) Code No. PJ6450-16  unit:mm Extending rod increases the depth for pickup to enter the part.	Calibration Test Block 1.30-1.60μm (Included) Code No. PJ6450-09  For the calibration of the surface roughness tester.
Adjustable Stand (Included) Code No. PJ6450-11  Height is adjustable 40mm.	Bluetooth Printer (Optional) Code No. PJ6450-14 



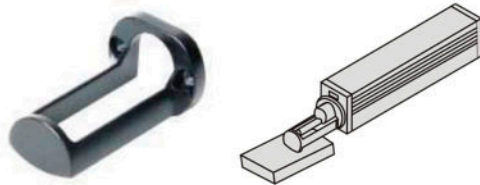
Surface Roughness Tester

645 Series

Optional Accessories

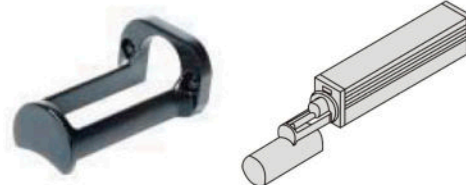
Support For Flat Surface (Optional)

Code No. PJ6450-08



Support For Cylindrical Surface (Optional)

Code No. PJ6450-26



Height Gage Adapter (Optional)

Code No. PJ6450-27



Can be installed on height gages.

Magnetic Stand Adapter (Optional)

Code No. PJ6450-21



Can be installed on magnetic stands.

Heavy Duty Test Stand (Optional)

Code No. PJ6450-19



The maximum workpiece height is 305mm.

Light Duty Test Stand (Optional)

Code No. PJ6450-20



The maximum workpiece height is 220mm.



Surface Roughness Tester

645 Series



645-12-0

FEATURES

- 2.5-inch color screen, provides high brightness, wide viewing angle
- Display full information, intuitive and graphical displays all parameters
- DSP chip control and data processing, high speed, low power consumption
- 4 Profile Filter: Gauss RC PC-RC D-P
- Multi parameters: Ra, Rz, Ry, Rq, Rc, Rt, Rmax, Rp, Rv, R3z, R3y, Rz (JIS), Rs, Rsk, Rku, Rsm, Rpc, Rmr
- Complies with standards: ISO, DIN, ANSI, JIS
- Can switch the display direction, convenient for left and right hand operation
- Data can be sent to Excel by connecting to computers via bluetooth or SPC cable - support bluetooth printer
- Large capacity data storage, can store 100 item of raw data and measured profile
- With automatic sleep, automatic shutdown power saving features

Code No.		645-12-0
Measuring Range		X Axis: 17.5mm/0.69"
		Z Axis: 160μm /6300μin
Resolution(Ra)		0.001μm
Accuracy		±10%
Probe	Type	Inductive
	Stylus Radius/Angle	5μm/90°
	Stylus Material	Diamond
Measuring Force		4mN
Sampling Length		0.25, 0.8, 2.5mm
Measuring Speed		0.135, 0.5, 1mm/s, 1mm/s (Return)
Size		142 x 55 x 40mm
Power Supply		Built-In 800mAh Rechargeable Lithium Ion Battery

Standard Pack	
Main Unit	1 pc
Small Hole Sensor	1 pc
Calibration Block and Support	1 pc of each
Adjustable Stand	1 pc
Probe Cover	1 pc
USB Cable	1 pc
AC/DC Adapter	1 pc

Optional Accessories	
Axe Sensor	PJ6451-01
Curved Surface Sensor	PJ6451-02
Deep Groove Sensor	PJ6451-03
Small Hole Sensor	PJ6451-04
Very Small Hole Sensor	PJ6451-05
Groove sensor	PJ6451-06
Extension Rod	PJ6451-07
Bluetooth printer	PJ6450-14



Surface Roughness Tester

645 Series

Optional Accessories

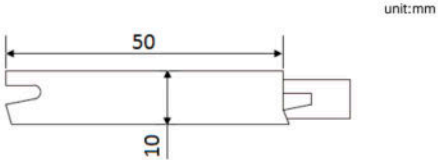
Axe Sensor (Optional) Code No. PJ6451-01 unit:mm For measuring the surface roughness of grooves with a width $\geq 2.5\text{mm}$ and a depth $\leq 3\text{mm}$, and the surface roughness of steps with a height of $\leq 3\text{mm}$. It can also measure planar and cylindrical surfaces.	Curved Surface Sensor (Optional) Code No. PJ6451-02 unit:mm For measure the surface roughness of concave and convex curved surface workpieces with a radius of curvature greater $> 3\text{ mm}$.
Deep Groove Sensor (Optional) Code No. PJ6451-03 unit:mm For measuring the groove with a width $> 3\text{mm}$ and a depth $> 10\text{mm}$, or the surface roughness of the step with a height $< 10\text{mm}$.	Small Hole Sensor (Included) Code No. PJ6451-04 unit:mm For measuring the inner surface roughness of small holes with diameter $> 5\text{mm}$ and depth $< 15\text{mm}$, and it can also measure plane and cylindrical surface.
Tiny Small Hole Sensor (Optional) Code No. PJ6451-05 unit:mm For measuring the inner surface roughness of small holes with diameter $> 2\text{mm}$ and depth $< 20\text{mm}$, and it can also measure plane and cylindrical surface.	Groove Sensor (Optional) Code No. PJ6451-06 unit:mm For measure surface for groove with width $\geq 2.5\text{mm}$, depth $\leq 3\text{mm}$, and for steps with height $\leq 3\text{mm}$.



Surface Roughness Tester

645 Series

Optional Accessories

Extension Rod (Optional) Code No. PJ6451-07  Extending rod increases the depth for pickup to enter the part.	Calibration Test Block 1.30-1.60μm (Included) Code No. PJ6450-09  For the calibration of the surface roughness tester.
Adjustable Stand (Included) Code No. PJ6450-11  Height is adjustable 40mm.	Bluetooth Printer (Optional) Code No. PJ6450-14 
Heavy Duty Test Stand (Optional) Code No. PJ6450-19  The maximum workpiece height is 305mm.	Light Duty Test Stand (Optional) Code No. PJ6450-20  The maximum workpiece height is 220mm.



Surface Roughness Tester

645 Series

NEW



645-11-0

Features

- Multi parameters: Ra, Rz, Rq, Rt.
- Features a calibration function with simple operation.
- This LED screen features high brightness and no viewing angle limitations. It offers wide temperature adaptability, making it suitable for various working environments.
- Auto-Off
- The sensor probe is equipped with a protective door, which effectively protects the sensor probe and ensures measurement accuracy.

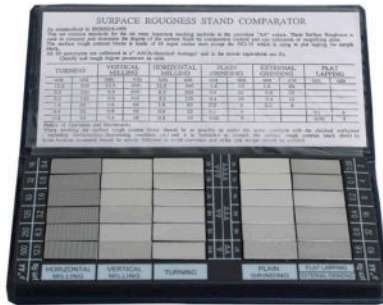
Code No.		645-11-0
Parameters		Ra, Rz, Rq, Rt
Measuring Range		Ra, Rq: 0.05~15μm
		Rz, Rt: 0.1~50μm
Resolution (Ra)		0.01μm
Accuracy		±10%
Sampling Length		0.25mm, 0.8mm, 2.5mm
Evaluation Length		1.25mm, 4mm, 5mm
Probe	Type	Piezoelectric
	Stylus Radius/Angle	10μm/90°
	Stylus Material	Diamond
Measuring Force		5mN
Unit		μm/ μin
Moving Speed		0.75mm/s
Memory		100 sets of measurement data
Power Supply		3.7V Rechargeable lithium - ion battery
Dimension		106x70x24mm
Weight		200g

Standard Pack	
Main Unit	1 pc
Calibration Block	1 pc
Calibration Block Support	1 pc
Power adapter	1 pc
Data cable	1 pc



Surface Roughness Standards

506 Series



506-01-0

FEATURES

- Set of 30 specimens, 7/8" x 3/8" electro formed, solid nickel
- Used for the visual comparison of surface roughness

Code No.		506-01-0
Qty.	Contents	Roughness
2 pcs	Flat Lapping	0.05; 0.1 μ m (2; 4 μ ")
4 pcs	Reaming	0.2; 0.4; 0.8; 1.6 μ m (8; 16; 32; 63 μ ")
6 pcs	Grinding	0.05; 0.1; 0.2; 0.4; 0.8; 1.6 μ m (2; 4; 8; 16; 32; 63 μ ")
6 pcs	Horizontal Milling	0.4; 0.8; 1.6; 3.2; 6.3; 12.5 μ m (16; 32; 63; 125; 250; 500 μ ")
6 pcs	Vertical Milling	0.4; 0.8; 1.6; 3.2; 6.3; 12.5 μ m (16; 32; 63; 125; 250; 500 μ ")
6 pcs	Turning	0.4; 0.8; 1.6; 3.2; 6.3; 12.5 μ m (16; 32; 63; 125; 250; 500 μ ")



Digital Coating Thickness Gauges

506 Series



506-10-0

FEATURES

- Fast, non-destructive, precise measurement of various coating thicknesses and material thicknesses. Widely used in manufacturing where a coating has been applied to a base material or applications where the wall thickness requires measurement.
- The system incorporates magnetic and eddy current technologies for multipurpose measurements. By selecting the appropriate probe the thickness of the non-ferrous coatings on ferrous base metals or nonferrous coatings on non-ferrous metal substrates.
- Two individual probe calibration methods are supported. Calibration compensation of system error increases the measurement accuracy.
- Measuring status indicator displays the measuring status and type of measurement.
- Auto sleep and auto power off functions increases battery life.

Code No.	506-10-0	506-10-1
Probe model	N1 eddy current probe	F1 magnetic induction probe
Measuring range	0-1250μm	0-1250μm
Resolution	0.1μm	0.1μm
Accuracy	3 (1+3%H) H is measuring thickness in μm	
Minimum curvature radius	3mm	1.5mm
Diameter of the min area	ø5mm	ø7mm
Critical thickness of substrate	0.3mm	0.5mm
Calibration mode	zero calibration and multi-points calibration (1-5 points)	
Unit	μm/mils	
Applicable to	Substrate material: non-magnetic metal substrate (Copper, Aluminum, Zinc, TiN, etc.) Coating material: non-conductive coating (Enamel, Rubber, Paint, Plastic, etc.)	Substrate material: magnetic metal (Steel, Iron, etc.) Coating material: non-magnetic coating (Aluminum, Chromium, Copper, Enamel, Rubber, Paint, etc.)
Power supply	2x1.5V AA batteries	
Dimension	125x67x31mm	
Weight	340g	

Standard Pack	
Main Unit	1 pc
Probe	1 pc
Zero calibration plate	1 pc
Calibration foils (49.5um, 106.4um, 245.9um, 490.7um, 997.4um)	1 set
1.5V AA battery	2 pcs
Screwdriver	1 pcs

Optional Accessories	
N1 eddy current probe	PJ506-01
F1 magnetic induction probe	PJ506-02



Ultrasonic Thickness Gauges

506 Series



506-20-0

FEATURES

- Measure the thickness of the substrate
- One - point calibration and two - point calibration
- Probe frequency selection function
- Automatic shutdown function

Code No.	506-20-0
Probe model	5M
Measuring range	0.75mm-300.0mm 0.03 -15.7 inch
Resolution	0.01mm/0.1mm
Accuracy	$\pm 0.05\text{mm}$ ($H < 10\text{mm}$) $\pm(0.5\%H+0.05)\text{ mm}$ ($10\text{mm}<H<100\text{mm}$) $\pm(0.6\%H)\text{ mm}$ ($H \geq 100\text{mm}$) H is the thickness to be measured in mm
Velocity	1000m/s-9999m/s
Output	USB
Unit	mm/inch
Power supply	2x1.5V AA batteries
Dimension	150x74x32mm
Weight	400g

Standard Pack	
Main Unit	1 pc
5M Probe	1 pc
Coupling agent	1 pc
1.5V AA battery	2 pcs

Optional Accessories	
5M Probe	PJ5060-01
High temperature probe, 300 degrees	PJ5060-02
High temperature probe, 400 degrees	PJ5060-03



Leeb Digital Hardness Testers

640 Series



640-18-0

FEATURES

- Large screen (5 inches), showing all functions and parameters With background light
- Hardness test can be taken at any angle including inverted
- A wide measuring range supports the hardness of all metallic materials. Hardness results are directly displayed in HRB, HRC, HV, HB, HSD, HL, Mpa hardness scales
- Supports a variety of Richter sensors (DC, DL, C, D+15, G)
- Large capacity memory could store 500 groups of information
- Tolerance alarm function
- Wireless printing capability
- Automatic power off after five minutes

Code No.	Range	Accuracy	Application Range	Impact Devices
640-18-0	170-960HLD	±5HLD	Test The Normal Smooth, Flat Surface	D
640-18-1			Test Hole Or Hollow Cylindrical	DC
640-18-2			Test Small, Light, Thin Parts And Surface Of Hardened Layer	C
640-18-3			Test Groove Or Re-Entrant Surface	D+15
640-18-4			Test Slender Narrow Groove Or Hole	DL
640-18-5			Test Large, Thick, Heavy And Rough Surface Steel	G

Leeb Digital Hardness Testers

640 Series



640-19-0

FEATURES

- Self-contained (Impact Device D integrated): no cables
- Integrated impact direction sensor
- 360° testing direction automatic identification
- Various hardness value conversion, HRB, HRC, HV, HB, HSD, HL
- Large capacity memory could store 500 groups of information
- Wireless printing capability
- Automatic power off after five minutes

Code No.	Range	Accuracy	Application Range	Impact Devices
640-19-0	170~960HLD	±4HLD	Test The Normal Smooth, Flat Surface	D



Impact Hardness Testers

640 Series



640-17-1

FEATURES

- Large screen with color display, allows for clear display of all functions and parameters
- Hardness test can be taken at any angle including inverted
- A wide measuring range supports the hardness of all metallic materials. Hardness results are directly displayed in HRB, HRC, HV, HB, HS, HL hardness scales.
- Six impact devices are available for special application with automatic impact device recognition
- Diameter of carbide ball: 3mm
- Large capacity memory storage of 500 sub groups. Stored information including single measured value, mean value, test data, impact direction, impact times, material and hardness scale are available
- Support two languages display, English and Chinese
- Upper and lower limit can be preset. An audio alarm will automatically sound when the reading is outside of the preset limits
- Battery voltage information is displayed including the charge status
- Calibration function is available.
- USB 1.1 port allows for information to be uploaded directly to computer
- High speed thermal printer allows for the readings to be immediately printed
- 6V Ni-MH rechargeable battery are supplied. The batteries can be charged with the integrated charger. Up to 150 hours of continuous operation battery life between charges (eL off and no printing)
- Automatic power off after five minutes

Code No.	Range	Accuracy	Application Range	Impact Devices	Impact Capacity
640-17-1	(170-960) HLD (17-68.5) HRC (19-651) HB	HLD: ± 5 HRC: ± 1 HB: ± 4	Test The Normal Smooth, Flat Surface	D	11 Nmm
640-17-2			Test Hole Or Hollow Cylindrical	DC	11 Nmm
640-17-3			Test Small, Light, Thin Parts And Surface Of Hardened Layer	C	2.7 Nmm
640-17-4			Test Groove Or Re-Entrant Surface	D+15	11 Nmm
640-17-5			Test Slender Narrow Groove Or Hole	DL	11 Nmm
640-17-6			Test Large, Thick, Heavy And Rough Surface Steel	G	90 Nmm



Digital Shore Durometer Hardness Testers

640 Series



640-06-5

FEATURES

- Display: 128 x 64 LCD with LED backlight
- Shore durometer tester measurement mode are concluding Averaging mode, Max mode, Max-Average mode
- Shore Hardness Meter measurement data can be stored, browsing, and batch printing
- 500 readings
- USB data output
- Wireless printing capability
- Shore A application range: soft vulcanized rubber, natural rubber, nitriles thermoplastic elastomers, flexible polyacrylics and thermosets, wax, felt, and leathers
- Shore D application range: hard rubber, thermoplastic elastomers, harder plastics, and thermoplastics

Code No.	Type	Range	Resolution	Accuracy
640-06-5	Shore A	0-100HA	0.1HA	±0.1HA
640-06-6	Shore D	0-100HD	0.1HD	±0.1HD

Test Stand For Digital Shore Durometer Hardness Testers

640 Series



640-06-A

FEATURES

- For digital shore durometers, code 640-06-5 and 640-06-6
- Cam-type loading and unloading make the test process more stable
- Operation type: the indenter pressed against the sample
- The measuring rod of the durometer stand can be adjusted by lifting
- Workbench adjustment: three-point leveling
- Tester is not included

Code No.	Loading Stroke	Specimen Thickness	Throat Depth	Support Table	For
640-06-A	18 mm	60 mm	65 mm	Ø116 mm	Shore A
640-06-D	18 mm	60 mm	65 mm	Ø116 mm	Shore D



Digital Shore Scale Durometers

640 Series



640-06-2

FEATURES

- Shore A&D
- Designed to test the hardness of plastic and rubber materials.
- Ergonomic, lightweight design assists in taking precise and consistent measurements.
- Measuring range: 0-100 HA/HD
- Resolution: 0.5 HA/HD
- Accuracy: 2 HA/HD

Shore A			
Code No.	Range	Resolution	Accuracy
640-06-2	0-100HA	0.5HA	2HA

Shore D			
Code No.	Range	Resolution	Accuracy
640-06-3	0-100HD	0.5HD	2HD

Shore Scale A Durometers

640 Series



640-06-0

FEATURES

- The Shore durometer is mainly applicable to the production and quality inspection of rubber products, plastic products and other materials.
- Shore durometer features a two - color dial design. During actual measurement, the hardness value can be easily read, effectively reducing reading errors and improving the accuracy of measurement data.

Code No.	Range	Graduation	Accuracy	Suitable For
640-06-0	10-90HA	1HA	±1HA	Soft vulcanized rubber, Natural rubber, Thermoplastic elastomer, Flexible polypropylene, Thermosetting plastic, Paraffin wax, Felt, Leather, etc.
640-06-1	20-90HD	1HD	±1HD	Hard rubber, Thermoplastic elastomer, Hard plastic, Hard thermosetting plastic, etc.



Rockwell Type Hardness Testers

640 Series



640-01-0

FEATURES

- Used for material hardness (HRA, HRB, HRC) testing
- Unit is designed with mechanical loads for precise hardness readings
- Conforms to the requirements of ASTM E18, ISO 6508-2 standards

Code No.	640-01-0
Hardness Scale	HRA, HRB, HRC
Range	20-95HRA, 10-100HRB, 10-70HRC
Test Force	588.4, 980.7, 1471N (60, 100, 150kgf)
Display	Dial Gauge
Load Dwell Time	5-60 Second
Min Reading	0.5HR
Test Height	170mm
Throat Depth	135mm
Dimension	466x238x630mm
Weight	65kg

Standard Pack

Main Unit	1 pc
Ø58mm Flat Anvil	1 pc
Ø150mm Flat Anvil	1 pc
V Type Anvil	1 pc
Rockwell Diamond Indenter	1 pc
Ø1.5875mm Carbide Ball Indenter	1 pc
Rockwell Hardness Test Block 20-30 HRC	1 pc
Rockwell Hardness Test Block 35-55 HRC	1 pc
Rockwell Hardness Test Block 60-70 HRC	1 pc
Rockwell Hardness Test Block 80-88 HRA	1 pc
Rockwell Hardness Test Block 85-95 HRB	1 pc

Optional Accessories

Code No.	Description
640-81-0	Rockwell Standardized Block 5pcs/set
640-81-1	Rockwell Hardness Test Block 20-30 HRC
640-81-2	Rockwell Hardness Test Block 35-55 HRC
640-81-3	Rockwell Hardness Test Block 60-70 HRC
640-81-4	Rockwell Hardness Test Block 80-88 HRA
640-81-5	Rockwell Hardness Test Block 85-95 HRB
640-83-0	Ø1.5875mm Carbide Ball Indenter
640-86-0	Rockwell Diamond Indenter



Rockwell Type Hardness Testers

640 Series



640-02-0

FEATURES

- Used for material hardness (HRA, HRB, HRC) testing
- Unit is designed with mechanical loads for precise hardness readings
- Conforms to the requirements of ASTM E18, ISO 6508-2 standards

Code No.	640-02-0
Hardness Scale	HRA, HRB, HRC
Range	20-95HRA, 10-100HRB, 10-70HRC
Test Force	588.4, 980.7, 1471N (60, 100, 150kgf)
Display	Dial Gauge
Load Dwell Time	5-60 Second
Min Reading	0.5HR
Test Height	460mm
Throat Depth	165mm
Power Supply	AC220V, 50HZ/60HZ
Dimension	540x230x1015mm
Weight	140kg

Standard Pack

Main Unit	1 pc
Ø58mm Flat Anvil	1 pc
Ø150mm Flat Anvil	1 pc
V Type Anvil	1 pc
Rockwell Diamond Indenter	1 pc
Ø1.5875mm Carbide Ball Indenter	1 pc
Rockwell Hardness Test Block 20-30 HRC	1 pc
Rockwell Hardness Test Block 35-55 HRC	1 pc
Rockwell Hardness Test Block 60-70 HRC	1 pc
Rockwell Hardness Test Block 80-88 HRA	1 pc
Rockwell Hardness Test Block 85-95 HRB	1 pc

Optional Accessories

Code No.	Description
640-81-0	Rockwell Standardized Block 5pcs/set
640-81-1	Rockwell Hardness Test Block 20-30 HRC
640-81-2	Rockwell Hardness Test Block 35-55 HRC
640-81-3	Rockwell Hardness Test Block 60-70 HRC
640-81-4	Rockwell Hardness Test Block 80-88 HRA
640-81-5	Rockwell Hardness Test Block 85-95 HRB
640-83-0	Ø1.5875mm Carbide Ball Indenter
640-86-0	Rockwell Diamond Indenter



Digital Rockwell Hardness Testers

640 Series



640-01-2



640-01-3

FEATURES

- Frictionless loading shaft, high precision testing force
- Color touch screen, easy operate
- 15 Rockwell hardness scales
- Varies hardness standard conversion
- With USB and RS232 data interface
- Conforms to the requirements of ASTM E18, ISO 6508-2 standards

Code No.	640-01-2	640-01-3
Hardness Scale	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV
Range	20-95HRA, 10-100HRB, 10-70HRC	20-95HRA, 10-100HRB, 10-70HRC
Test Force	588.4, 980.7, 1471N (60, 100, 150kgf)	588.4, 980.7, 1471N (60, 100, 150kgf)
Load Dwell Time	5-60 Second	5-60 Second
Min Reading	0.1HR	0.1HR
Test Height	170mm	210mm
Throat Depth	135mm	165mm
Power Supply	AC220V, 50HZ/60HZ	AC220V, 50HZ/60HZ
Dimension	500x250x700mm	522x225x730mm
Weight	75kg	98kg

Standard Pack	
Main Unit	1 pc
Ø58mm Flat Anvil	1 pc
Ø150mm Flat Anvil	1 pc
V Type Anvil	1 pc
Rockwell Diamond Indenter	1 pc
Ø1.5875mm Carbide Ball Indenter	1 pc
Rockwell Hardness Test Block 20-30 HRC	1 pc
Rockwell Hardness Test Block 35-55 HRC	1 pc
Rockwell Hardness Test Block 60-70 HRC	1 pc
Rockwell Hardness Test Block 80-88 HRA	1 pc
Rockwell Hardness Test Block 85-95 HRB	1 pc

Optional Accessories	
Code No.	Description
640-81-0	Rockwell Standardized Block 5pcs/set
640-81-1	Rockwell Hardness Test Block 20-30 HRC
640-81-2	Rockwell Hardness Test Block 35-55 HRC
640-81-3	Rockwell Hardness Test Block 60-70 HRC
640-81-4	Rockwell Hardness Test Block 80-88 HRA
640-81-5	Rockwell Hardness Test Block 85-95 HRB
640-83-0	Ø1.5875mm Carbide Ball Indenter
640-86-0	Rockwell Diamond Indenter



Digital Twin Rockwell Hardness Testers

640 Series



640-20-3

FEATURES

- Twin tester-Regular Rockwell & Rockwell Superficial hardness for metal and plastic material
- Horizontal protrudent indenter design, also suitable for internal and external testing
- Testing on surfaces difficult to reach. Testing internal surface of rings and tubes with diameters over 23mm
- Testing force is set automatically according to testing scale
- Provided with many features such as high measuring precision, wide measuring range with 30 Rockwell scales
- Measuring results are digitally displayed and can be printed, or automatic transfer information to external computer via USB or RS-232 cable
- Test value can be transformed to the value of HB, HV, HK and σ_b value
- The tester meets all the following standard such as ISO 6508-2, ASTM E18

Code No.	640-20-3
Resolution	0.1HR
Rockwell Scales	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV
Superficial Rockwell Scales	15T, 30T, 45T, 15W, 30W, 45W, 15X, 30X, 45X, 15Y, 30Y, 45Y
Preliminary Test Force	98.1N 10kgf
Total Test Force	588.4, 980.7, 1471N 60, 100, 150kgf
Test Height	260mm
Throat Depth	150mm
Power Supply	AC220V 50HZ/60HZ
Dimension	710x210x830mm
Weight	125kg

Standard Pack	
Main Unit	1 pc
Flat Anvil	1 pc
V Type Anvil	1 pc
Rockwell Diamond Indenter	1 pc
Ø1.5875mm Carbide Ball Indenter	1 pc
Rockwell Hardness Test Block HRC	1 pc
Rockwell Hardness Test Block HRA	1 pc
Rockwell Hardness Test Block HRB	1 pc
Rockwell Hardness Test Block HR30N	1 pc
Rockwell Hardness Test Block HR30T	1 pc
Screwdriver For Indenter Mounting	1 pc
Mounting Screws For Indenter	1 pc
Power Cable	1 pc



Brinell Hardness Testers

640 Series



640-10-1

FEATURES

- Used for Brinell hardness testing on metal
- Mechanical models are designed with reversing switch
- It's steady and reliable for testing of curved surface
- It's suitable to determine the Brinell hardness of unquenched steel, cast iron, non-ferrous metals and soft bearing alloys, etc.
- Precision conforms to the Standards of ISO 6506-2 and ASTM E10

Code No.	640-10-1
Range	8-650HBW
Test Force	1838.8, 2451.8, 4903.5, 7355.3, 9807, 14710.5, 29421N 187.5, 250, 500, 750, 1000, 1500, 3000kgf
Test Height	230mm
Throat Depth	120mm
Power Supply	AC220V/50HZ; AC110V/60HZ
Dimension	700x260x842mm
Weight	210kg

Standard Pack	
Main Unit	1 pc
Ø78mm Flat Anvil	1 pc
Ø120mm Flat Anvil	1 pc
V Type Anvil	1 pc
Ø2.5mm Carbide Ball Indenter	1 pc
Ø5mm Carbide Ball Indenter	1 pc
Ø10mm Carbide Ball Indenter	1 pc
Brinell Hardness Test Block	2 pcs
20X Readout Microscope	1 pc

Optional Accessories	
Code No.	Description
640-80-0	Brinell Hardness Block 2pcs/set
640-84-0	Ø2.5mm, Ø5mm, Ø10mm Carbide Ball Indenter
640-84-1	Ø2.5mm Carbide Ball Indenter
640-84-2	Ø5mm Carbide Ball Indenter
640-84-3	Ø10mm Carbide Ball Indenter
640-84-4	20X Readout Microscope



Digital Brinell Hardness Testers

640 Series



640-10-7

FEATURES

- Color touch screen, easy operate
- Full automatic closed loop control system
- Electronic loading system
- Automatic test process
- It's suitable to determine the Brinell hardness of unquenched steel, cast iron, non-ferrous metals and soft bearing alloys, etc.
- Precision conforms to the Standards of ISO 6506-2 and ASTM E10

Code No.	640-10-7
Range	4-650HBW
Test Force	612.9, 980.7, 1226, 1839, 2452, 4903.5, 7355, 9807, 14710.5, 29421N 62.5, 100, 125, 187.5, 250, 500, 750, 1000, 1500, 3000kgf
Test Height	280mm
Throat Depth	150mm
Power Supply	AC220V/50HZ
Dimension	570x330x910mm
Weight	180kg

Optional Accessories	
Code No.	Description
640-80-0	Brinell Hardness Block 2pcs/set
640-84-0	Ø2.5mm, Ø5mm, Ø10mm Carbide Ball Indenter
640-84-1	Ø2.5mm Carbide Ball Indenter
640-84-2	Ø5mm Carbide Ball Indenter
640-84-3	Ø10mm Carbide Ball Indenter
640-84-4	20X Readout Microscope

Standard Pack	
Main Unit	1 pc
Ø78mm Flat Anvil	1 pc
Ø120mm Flat Anvil	1 pc
V Type Anvil	1 pc
Ø2.5mm Carbide Ball Indenter	1 pc
Ø5mm Carbide Ball Indenter	1 pc
Ø10mm Carbide Ball Indenter	1 pc
Brinell Hardness Test Block	2 pcs
20X Readout Microscope	1 pc



Hammer Type Brinell Hardness Testers

640 Series



640-10-3

FEATURES

- Measure brinell hardness on large and heavy workpiece
- Small size, easy to carry, easy to operate
- Strong construction, durable, high test efficiency
- High precision reading microscope

Code No.	640-10-3
Range	100-400HBS
Ball diameter	10mm
Dimension	250x110mm
Weight	0.5kg

Standard Pack	
Main Unit	1 pc
Hardness Test Block	2 pcs
20X Readout Microscope	1 pc



Digital Vickers Hardness Testers

640 Series



640-20-1

FEATURES

- High precision optical measurement system, precision coordinate test bench
- 5.6" inch LCD touch screen
- Different hardness standard conversion
- Dynamic display of pressure head during loading and unloading process, real-time test status
- Test force, indentation length, holding time, measurement frequency, etc. display on the screen
- Auto-Correct hardness values for concave and convex surfaces
- Test result is synchronized save in the database and export
- Support USB and RS232 interfaces
- Precision conforms to the Standards ISO 6507 and ASTM E92

Code No.	640-20-1
Range	5-3000HV
Test Force	9.807, 49.04, 98.07, 196.1, 294.2, 490.4N 1, 5, 10, 20, 30, 50kgf
Load Dwell Time	5-60 Second
Minimum Detection Unit	0.125μm
Magnification	200X, 100X
Test Height	180mm
Throat Depth	125mm
Power Supply	AC220V 50HZ/60HZ
Dimension	580x260x730mm
Weight	100kg

Optional Accessories

Code No.	Description
640-87-0	Vickers Diamond Indenter
640-87-1	Vickers Hardness Test Block <225 HV30/20/10/5/3
640-87-2	Vickers Hardness Test Block 400-500 HV30/20/10/5/3
640-87-3	Vickers Hardness Test Block 700-800 HV30/20/10/5/3

Standard Pack

Main Unit	1 pc
Adjustable work table	1 pc
136° Carbide Ball Indenter	1 pc
Objective 10X, 20X	1 pc each
Eyepiece 10X	1 pc
Large V Type Blocks	1 pc
Small V Type Anvil	1 pc
136° Carbide Ball Indenter	1 pc
Vickers Hardness Test Block 200 ±25 HV5	1 pc
Vickers Hardness Test Block 450 ±50 HV5	1 pc
Vickers Hardness Test Block 750 ±50 HV10	1 pc
Halogen lamp 12V 15W	1 pc
Micro Printer	1 pc



Digital Vickers Hardness Testers

640 Series



640-20-2

FEATURES

- Auto-Turret; frictionless spindle with high precision in testing force
- Electronic booster, fully automatic closed-loop loading control system
- High precision optical measurement system, precision coordinate test bench
- 5.6" inch LCD touch screen
- Varies hardness standard conversion
- Dynamic display of time force curve during loading and unloading process
- The experimental process is automated, easy to operate, and minimized human mistake during operations
- Auto-correct hardness value for concave and convex surfaces
- Test force, indentation length, holding time, measurement frequency, etc. display on the screen
- Support USB and RS232 interfaces for convenient data processing by users
- Optional image measurement system, with online function through data cables, controls all actions of the hardness tester on the computer; automatic captures indentation images; automatic measures hardness values; generates hardness curves; automatic calculates effective hardening layer depth; measure fracture toughness of hard alloys
- Precision conforms to the Standards of ISO 6507 and ASTM E92

Code No.	640-20-2
Range	5-3000HV
Test Force	2.942, 4.904, 9.807, 19.61, 24.52, 29.42, 49.04, 98.07N 0.3, 0.5, 1, 2, 2.5, 3, 5, 10kgf
Objective	10X, 20X
Eyepiece	10X
Load Dwell Time	5-99 Second
Total Magnification	100X, 200X
Minimum Detection Unit	0.125µm
Magnification	200X, 100X
Test Height	210mm
Throat Depth	130mm
Power Supply	AC220V 50HZ/60HZ
Dimension	580x260x730mm
Weight	105kg

Optional Accessories	
Code No.	Description
640-87-0	Vickers Diamond Indenter
640-87-1	Vickers Hardness Test Block <225 HV30/20/10/5/3
640-87-2	Vickers Hardness Test Block 400-500 HV30/20/10/5/3
640-87-3	Vickers Hardness Test Block 700-800 HV30/20/10/5/3

Standard Pack	
Main Unit	1 pc
Adjustable work table	1 pc
136°Carbide Ball Indenter	1 pc
Objective 10X, 20X	1 pc each
Eyepiece 10X	1 pc
Large V Type Blocks	1 pc
Small V Type Anvil	1 pc
136°Carbide Ball Indenter	1 pc
Vickers Hardness Test Block 180-230 HV5	1 pc
Vickers Hardness Test Block 400-500 HV5	1 pc
Vickers Hardness Test Block 700-800 HV10	1 pc
Precision Vise	1 pc
Wafer Attachment, Thin Shaft Test Bench	1 pc each
Level	1 pc
Horizontal adjusting screw	4 pcs
Halogen lamp 12V 15W	1 pc
Micro Printer	1 pc



Brinell Rockwell Vickers Hardness Testers

640 Series



640-30-1

FEATURES

- Capable of simultaneously performing Brinell, Rockwell, and Vickers hardness tests
- Automation testing process with no human error in operation
- Rockwell hardness can be directly read on the dial, while Brinell and Vickers hardness can be obtained by checking the table
- Precision conforms to the Standards of ISO 6508-2, ISO 6506-2, ISO 6507-2, ASTM E18, ASTM E10, and ASTM

Code No.	640-30-1
Range	Brinell: 4-650HBW Rockwell: 20-95HRA, 10-100HRBW, 10-70HRC Vickers: 5-3000HV
Rockwell Reading	0.5HR
Rockwell Test Force	588.4, 980.7, 1471N 60, 100, 150kgf
Brinell Magnification of Microscope	37.5X, 75X
Reading	2μm, 4μm
Brinell Test Force	294.2, 306.5, 612.9, 980.7, 1839N 30, 31.25, 62.5, 100, 187.5kgf
Vickers Magnification of Microscope	75X, 150X
Reading	1μm, 2μm
Vickers Test Force	294.2, 980.7N 30, 100kgf
Test Height	Rockwell: 210mm Brinell: 140mm Vickers: 140mm
Throat Depth	165mm
Power Supply	AC220V 50HZ/60HZ
Dimension	522x265x730mm
Weight	100kg

Standard Delivery

Main Unit	1 pc
Rockwell Diamond Indenter	1 pc
Vickers Diamond Indenter	1 pc
Ø1.5875mm Carbide Ball Indenter	1 pc
Ø2.5mm Carbide Ball Indenter	1 pc
Ø5mm Carbide Ball Indenter	1 pc
Ø58mm Flat Anvil	1 pc
Ø150mm Flat Anvil	1 pc
V Type Anvil	1 pc
15X Digital Eyepiece	1 pc
Objective 2.5X, 5X, 10X	1 pc each
Rockwell Hardness Test Block 20-30 HRC	1 pc
Rockwell Hardness Test Block 35-55 HRC	1 pc
Rockwell Hardness Test Block 60-70 HRC	1 pc
Rockwell Hardness Test Block 80-88 HRA	1 pc
Rockwell Hardness Test Block 85-95 HRB	1 pc
Vickers Hardness Test Block 400-500 HV30	1 pc
Brinell Hardness Test Block 170-250HBW 2.5/187.5	1 pc

Optional Accessories

Code No.	Description
640-80-0	Brinell Hardness Block 2 pcs/set
640-81-0	Rockwell Hardness Block 5 pcs/set
640-81-1	Rockwell Hardness Test Block 20-30 HRC
640-81-2	Rockwell Hardness Test Block 35-55 HRC
640-81-3	Rockwell Hardness Test Block 60-70 HRC
640-81-4	Rockwell Hardness Test Block 80-88 HRA
640-81-5	Rockwell Hardness Test Block 85-95 HRB
640-83-0	Ø1.5875mm Carbide Ball Indenter
640-86-0	Rockwell Diamond Indenter
640-87-0	Vickers Diamond Indenter
640-88-1	Ø2.5mm Carbide Ball Indenter
640-88-2	Ø5mm Carbide Ball Indenter



Digital Brinell Rockwell Vickers Hardness Testers

640 Series



640-30-0

FEATURES

- Capable of simultaneously performing Brinell, Rockwell, and Vickers hardness tests
- Automation testing process with digital display of hardness values
- 5.6 inch LCD touch screen, easy to operate
- Has software calibration function; Dynamic display of pressure head during loading and unloading process, real-time observation of test status
- Conversion of multiple hardness values
- Support USB and RS232 data interfaces for convenient data processing by users
- Test result is synchronized save in the database and export
- Precision conforms to the Standards of ISO 6508-2, ISO 6506-2, ISO 6507-2, ASTM E18, ASTM E10, and ASTM

Code No.	640-30-0
Range	Brinell: 4-650HBW Rockwell: 20-95HRA, 20-95HRBW, 20-95HRC Vickers: 5-3000HV
Brinell Reading	0.1HBW
Brinell Test Force	294.2, 306.5, 612.9, 980.7, 1839N 30, 31.25, 62.5, 100, 187.5kgf
Brinell Scales	HBW1/30, HBW2.5/31.25, HBW2.5/62.5, HBW2.5/187.5, HBW5/62.5, HBW10/100,
Rockwell Reading	0.1HR
Rockwell Test Force	588.4, 980.7, 1471N 60, 100, 150kgf
Rockwell Scales	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV
Rockwell Scales	0.1HV
Objective	2.5X, 5X, 10X
Vickers Test Force	294.2, 980.7N 30, 100kgf
Vickers Scales	HV30, HV100
Magnification of Microscope	Brinell: 37.5X, 75X Vickers: 75X, 150
Test Height	Brinell: 140mm Rockwell: 210mm Vickers: 140mm
Throat Depth	165mm
Power Supply	AC220V 50HZ/60HZ
Dimension	522x265x730mm
Weight	100kg

Standard Delivery

Main Unit	1 pc
Rockwell Diamond Indenter	1 pc
Vickers Diamond Indenter	1 pc
Ø1.5875mm Carbide Ball Indenter	1 pc
Ø2.5mm Carbide Ball Indenter	1 pc
Ø5mm Carbide Ball Indenter	1 pc
Ø58mm Flat Anvil	1 pc
Ø150mm Flat Anvil	1 pc
V Type Anvil	1 pc
15X Digital Eyepiece	1 pc
Objective 2.5X, 5X, 10X	1 pc each
Rockwell Hardness Test Block 20-30 HRC	1 pc
Rockwell Hardness Test Block 35-55 HRC	1 pc
Rockwell Hardness Test Block 60-70 HRC	1 pc
Rockwell Hardness Test Block 80-88 HRA	1 pc
Rockwell Hardness Test Block 85-95 HRB	1 pc
Vickers Hardness Test Block 400-500 HV30	1 pc
Brinell Hardness Test Block 170-250HBW 2.5/187.5	1 pc
Micro Printer	1 pc

Optional Accessories

Code No.	Description
640-80-0	Brinell Hardness Block 2 pcs/set
640-81-0	Rockwell Hardness Block 5 pcs/set
640-81-1	Rockwell Hardness Test Block 20-30 HRC
640-81-2	Rockwell Hardness Test Block 35-55 HRC
640-81-3	Rockwell Hardness Test Block 60-70 HRC
640-81-4	Rockwell Hardness Test Block 80-88 HRA
640-81-5	Rockwell Hardness Test Block 85-95 HRB
640-83-0	Ø1.5875mm Carbide Ball Indenter
640-86-0	Rockwell Diamond Indenter
640-87-0	Vickers Diamond Indenter
640-84-1	Ø2.5mm Carbide Ball Indenter
640-84-2	Ø5mm Carbide Ball Indenter



Webster Hardness Tester

640 series



640-36-0

FEATURES

- Suitable for hardness testing of soft metals including aluminum alloy, pure copper and brass.
- Compact and lightweight body with handheld portable design, flexible for on-site inspection.
- Minimal test indentation, no impact on subsequent use and appearance quality of workpieces.

Code No.	Range	Graduation	Accuracy	Thickness Requirement of Flat Workpiece	Internal Diameter Requirement of Tube Workpiece	Application
640-36-0	0-20HW	1HW	$\pm 0.5\text{HW}$ (5~17HW)	0.6-6mm	$>\Phi 10\text{mm}$	Aluminum alloy general use
640-36-1				0.6-13mm	$>\Phi 10\text{mm}$	Aluminum alloy thick workpiece
640-36-2				0.6-8mm	$>\Phi 8\text{mm}$	Aluminum alloy small tube
640-36-3				0.6~6 mm	$>\Phi 10\text{mm}$	Hard aluminum alloy and hard brass
640-36-4				0.6~6 mm	$>\Phi 10\text{ mm}$	Soft brass and copper
640-36-5				0.6~6 mm	$>\Phi 10\text{ mm}$	Soft steel and cold-rolled steel

Standard Pack

Main Unit	1 pc
Spare indenter	1 pc
Hardness test block	1 pc
Wrench	1 pc



Portable Refractometers

644 series



644-01-0



FEATURES

- Automatic Temperature Compensation
- Measuring Range: 0-32%
- Accuracy: $\pm 0.2\%$;
- Convenient to store: Compact in size and light in weight, packed with a plastic case, convenient to store and carry around.

Code No.	Measuring Range	Graduation	Accuracy
644-01-0	0-32%	0.2%	$\pm 0.2\%$
644-01-2	0-80%	0.2%	$\pm 0.2\%$

Digital Refractometers

644 Series

NEW



644-10-1

Features

- Digital refractometer offers high precision and efficiency with a measurement time of 2 seconds
- Automatic temperature compensation
- Measuring range of 0.0 to 95.0% Brix
- Equipped with a CCD photosensitive component and a Peltier temperature control system, it can accurately analyze the refractive index in industries such as petroleum, pharmaceuticals, food, and sugar
- IP65 protection level

Code No.	644-10-1
Measuring range	0-95% (Brix)
Resolution	0.1%
Accuracy	0.2%
Measurement time	2 seconds
Power supply	AAA battery
Weight	90g

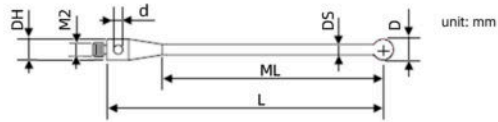
Standard Pack	
Main Unit	1 pc
Dropper	1 pc
Screwdriver	1 pc
AAA battery	1 pc

CMM Accessories

367	CMM Stylus
367	Steel Extensions
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CMM Stylus

478 series



unit: mm

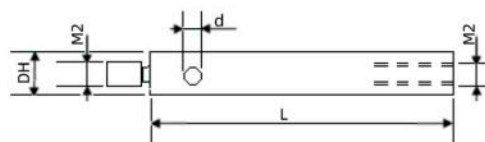
FEATURES

- M2 Thread
- Base -Stainless Steel
- Shaft -Stainless Steel
- Tip -Ruby Ball

Dimensions							
Code No.	Renishaw No.	D	L	ML	DS	DH	d
478-01-2	A-5000-7802	1.5mm	10mm	4.5mm	0.75mm	3mm	1.3mm
478-02-2	A-5000-7807	2mm	10mm	5.5mm	1mm	3mm	1.3mm
478-03-2	A-5000-3603	2mm	20mm	13mm	1.5mm	3mm	1.3mm
478-04-2	A-5000-7803	2.5mm	10mm	5.5mm	1.25mm	3mm	1.3mm
478-05-2	A-5000-7804	2.5mm	20mm	13mm	1.25mm	3mm	1.3mm
478-06-2	A-5000-3604	3mm	10mm	4mm	1.5mm	3mm	1.3mm
478-07-2	A-5000-4160	3mm	20mm	13mm	1.5mm	3mm	1.3mm
478-08-2	A-5000-4154	4mm	10mm	5mm	1.5mm	3mm	1.3mm
478-09-2	A-5000-4161	4mm	20mm	13mm	1.5mm	3mm	1.3mm
478-10-2	A-5000-4155	5mm	10mm	5.5mm	2.5mm	3mm	1.3mm
478-11-2	A-5000-4156	6mm	10mm	6mm	2.5mm	3mm	1.3mm
478-12-2	A-5000-4158	8mm	11mm	6mm	2.5mm	3mm	1.3mm

Steel Extensions

478 series



unit: mm

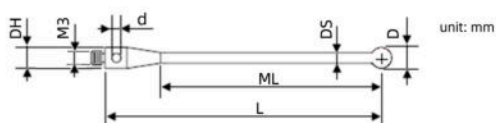
FEATURES

- M2 Thread
- Shaft - Steel

Dimensions				
Code No.	Renishaw No.	L	DH	d
478-60-2	M-5000-7634	5mm	3mm	1.3mm
478-61-2	M-5000-3647	10mm	3mm	1.3mm
478-62-2	M-5000-3648	20mm	3mm	1.3mm
478-63-2	M-5000-4162	30mm	3mm	1.3mm
478-64-2	M-5000-7779	40mm	3mm	1.3mm

CMM Stylus

478 series



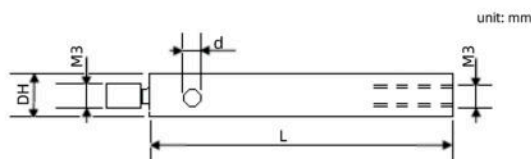
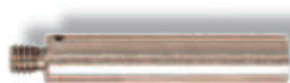
FEATURES

- M3 Thread
- Base -Stainless Steel
- Shaft -Stainless Steel
- Tip -Ruby Ball

Dimensions							
Code No.	Renishaw No.	D	L	ML	DS	DH	d
478-01-3	A-5004-7401	1mm	10mm	4mm	0.7mm	4mm	1.5mm
478-02-3	A-5000-3551	1mm	21mm	4mm	0.7mm	4mm	1.5mm
478-03-3	A-5004-0421	2mm	10mm	5.5mm	1.5mm	4mm	1.5mm
478-04-3	A-5000-3552	2mm	21mm	8mm	1.5mm	4mm	1.5mm
478-05-3	A-5004-0422	3mm	10mm	5.5mm	1.5mm	4mm	1.5mm
478-06-3	A-5000-3553	3mm	21mm	12mm	1.5mm	4mm	1.5mm
478-07-3	A-5004-0423	4mm	10mm	7mm	2.5mm	4mm	1.5mm
478-08-3	A-5000-7606	4mm	21mm	11mm	2.5mm	4mm	1.5mm
478-09-3	A-5000-3554	4mm	31mm	21mm	2.5mm	4mm	1.5mm
478-10-3	A-5000-7630	5mm	21mm	11mm	2.5mm	4mm	1.5mm
478-11-3	A-5000-7648	5mm	31mm	31mm	3.5mm	4mm	1.5mm

Steel Extensions

478 series



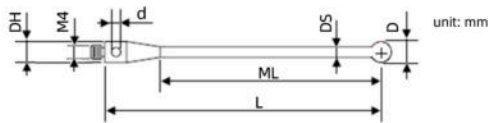
FEATURES

- M3 Thread
- Shaft - Steel

Dimensions				
Code No.	Renishaw No.	L	DH	d
478-60-3	M-5000-7633	10mm	4mm	1.5mm
478-61-3	M-5000-3592	20mm	4mm	1.5mm
478-62-3	-	30mm	4mm	1.5mm
478-63-3	M-5000-3593	35mm	4mm	1.5mm
478-64-3	-	40mm	4mm	1.5mm
478-65-3	-	50mm	4mm	1.5mm
478-66-3	-	60mm	4mm	1.5mm
478-67-3	-	70mm	4mm	1.5mm
478-68-3	-	80mm	4mm	1.5mm

CMM Stylus

478 series



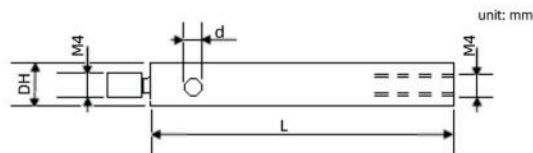
FEATURES

- M4 Thread
- Base -Stainless Steel
- Shaft -Stainless Steel
- Tip -Ruby Ball

Dimensions							
Code No.	Renishaw No.	D	L	ML	DS	DH	d
478-01-4	A-5000-7547	2mm	19mm	8mm	1.5mm	7mm	2.1mm
478-02-4	A-5000-7549	3mm	18.5mm	13mm	2mm	7mm	2.1mm
478-03-4	A-5000-7551	4mm	18mm	13mm	3mm	7mm	2.1mm
478-04-4	A-5000-6350	5mm	10mm	5mm	3mm	7mm	2.1mm
478-05-4	A-5000-7553	5mm	17.5mm	12.5mm	3.5mm	7mm	2.1mm
478-06-4	A-5000-6731	5mm	20mm	15mm	3mm	7mm	2.1mm
478-07-4	A-5000-6352	5mm	30mm	25mm	3mm	7mm	2.1mm
478-08-4	A-5000-7521	5mm	50mm	35mm	4.5mm	7mm	2.1mm
478-09-4	A-5000-7522	5mm	100mm	83mm	4.5mm	7mm	2.1mm
478-10-4	A-5000-7523	5mm	150mm	133mm	4.4mm	7mm	2.1mm
478-11-4	A-5000-7555	6mm	17mm	13mm	4.5mm	7mm	2.1mm
478-12-4	A-5000-7557	8mm	16mm	12.5mm	6mm	7mm	2.1mm

Steel Extensions

478 series



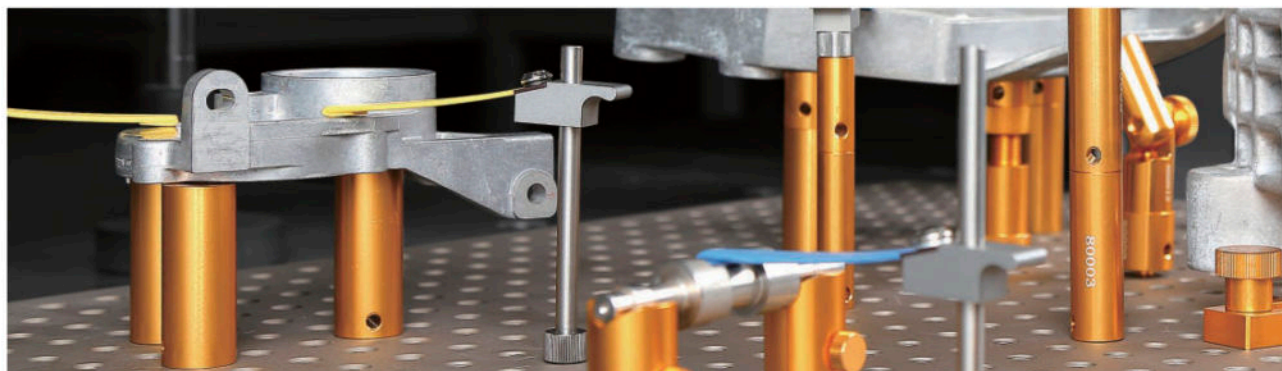
FEATURES

- M4 Thread
- Shaft - Steel

Dimensions				
Code No.	Renishaw No.	L	DH	d
478-60-4	M-5000-7583	10mm	7mm	2.1mm
478-61-4	M-5000-7584	15mm	7mm	2.1mm
478-62-4	M-5000-7585	20mm	7mm	2.1mm
478-63-4	M-5000-7586	30mm	7mm	2.1mm
478-64-4	-	40mm	7mm	2.1mm
478-65-4	-	50mm	7mm	2.1mm

CMM Fixtures System

479 series



Brief Introduction

Fixtures components are designed to hold components firmly with the minimum necessary force and without any special tools; all components are with different function including supporting, clamping or pressing.

The reasonable design allows avoiding damage or distortion on the measuring part. With these flexible components users are able to create different type of fixtures combination for varies of parts. Also it is easy to set up a clear probe path of 3D measuring.



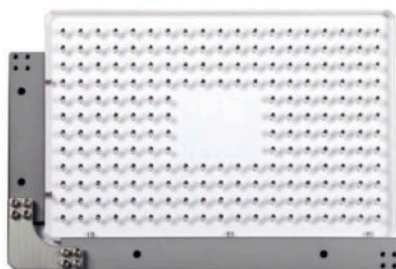
108pcs/sets

Code No.	Quantity
479-01-0	108pcs



60pcs/sets

Code No.	Quantity
479-02-0	60pcs



Base Plates

Code No.	Range	Threaded Holes
479-03-0	300x300mm	M8
479-03-1	400x300mm	M8
479-03-2	400x400mm	M8
479-03-3	500x500mm	M8
479-03-4	600x600mm	M8

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Bluetooth Data Transmission Supported



Rating Of Protection Level IP65



Rating Of Protection Level IP67



Electronic Digital Display Supported



Data Output Supported



Absolute Measuring Mode Supported

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