



ASIMETO

CATALOG NO. AS2021

INDEX

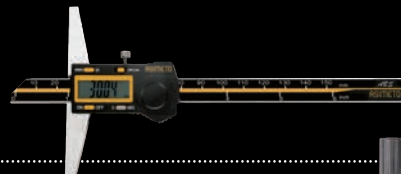
6 Micrometers



54 Calipers



86 Depth & Height Gauges



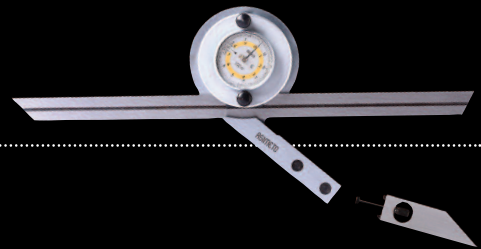
96 Indicator & Dial Gauges



120 Bore Gauges



130 Other Gauges



148 Gauges



169 Testers & Optical Instrument



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.

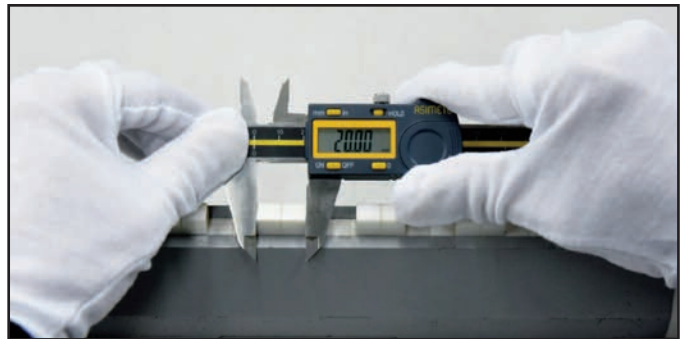
Asimeto Calibration Laboratory

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 JIG 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.

ASIMETO Calibration Lab



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Product Description

Calibration Certificate



Certificate No G30001
 Part Number 307-06-0 Tool 0-150mm/0-6"
 Serial Number GS102042 Range 0.01mm/0.0005"
 Standard Name ASME B89.1.14 Resolution Digital Calipers

Function Inspection Passed Visual Inspection Passed

Outside Measurements

Reading	Nominal Value	Tolerance +/-	Deviation	Disposition*
1	0.0000	±0.001"	0.0000	<input checked="" type="checkbox"/>
2	1.0000"	±0.001"	-0.0010	<input checked="" type="checkbox"/>
3	3.0000"	±0.001"	-0.0010	<input checked="" type="checkbox"/>
4	4.5000"	±0.001"	-0.0015	<input checked="" type="checkbox"/>
5	6.0000"	±0.001"	-0.0015	<input checked="" type="checkbox"/>

Inside Measurements

Reading	Nominal Value	Tolerance +/-	Deviation	Disposition*
6	0.2000"	±0.001"	0.0010	<input checked="" type="checkbox"/>
7	1.0000"	±0.001"	0.0010	<input checked="" type="checkbox"/>

Depth Measurements

Reading	Nominal Value	Tolerance +/-	Deviation	Disposition*
8	0.0000	±0.001"	0.0000	<input checked="" type="checkbox"/>

Master information

Master information		Due Date	
Depth set	258254	NIST-192837	2013-8-1
Gauge Block Set	258254	NIST-95837	2013-8-1
Setting Rings	258254	NIST-45837	2013-8-1

Uncertainty 6 μm +10⁻⁶×L Temperature 20 °C +/-0.5°C Humidity 50 % +/-15%

Attach invoice for proof of purchase date

* Check mark indicates within tolerance

Calibrator *[Signature]*

Approved By *[Signature]*

Asimeto (Guangzhou) Inc. Calibration Lab
 402 Building B, Yushu Industrial Zone, Lufeng District, Guangzhou China;
 Tel: 020-82019119 Fax: 020-82261



1

Inspection Point & Result

3

Disposition

4

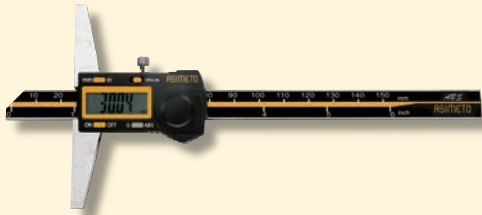
Traceable No.

Data Collection Measuring Tools

ABS Digital Caliper



Depth Calipers



Digital Micrometer



Digital Indicator



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


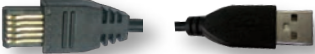





Measure Report

	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






Data Output Cables

900 Series

Used For	Interface to PC	Data	Corresponding	Code No.
	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
	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
	USB	Dot Data Format	405-95-X ; 405-01-X 405-02-X ; 405-04-X	900-20-0
	USB	Dot Data Format	Special Digital Micrometer	900-10-0
	USB	Dot Data Format	Special Digital Micrometer	900-10-2
	Footswitch for Wireless Device			900-90-1

Wireless Data Output Devices

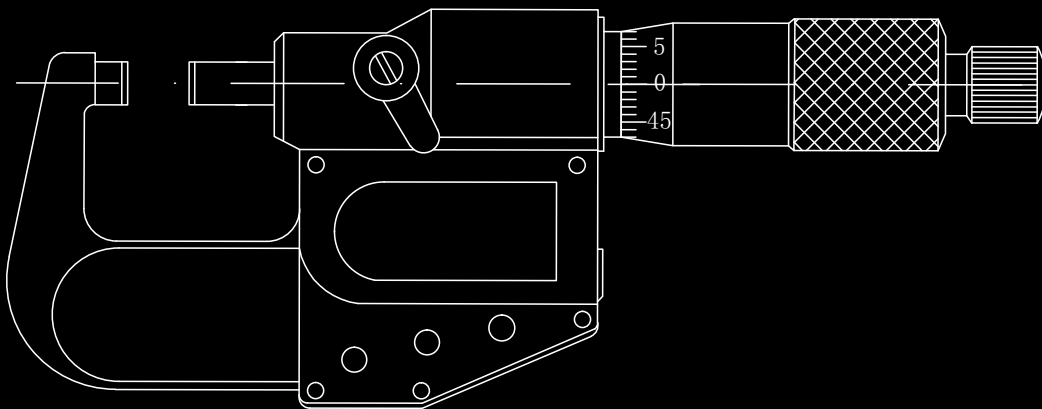
901 Series

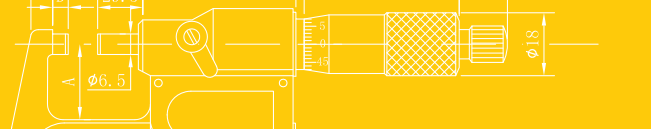
Used For	Function	Frequency	Code No.
	Transmitter	2.4G	901-00-2
	Receiver	2.4G	901-00-3
	Transmitter	2.4G	901-00-4
	Transmitter with Footswitch Interface	2.4G	901-00-6
	Transmitter with Footswitch Interface	2.4G	901-00-7



Micrometers

7	IP65 Digital Outside Micrometers	29	Single Point Micrometers
9	Digital Outside Micrometers	30	Spline Micrometers
10	Outside Micrometers	31	Gear Tooth Micrometers
11	Outside Micrometers Sets	32	Screw Thread Micrometers
12	Interchangeable Anvil Outside Micrometers	33	Disc Micrometers
13	Dial Snap Gauge	34	Jaw Type Micrometers
14	Indicating Micrometers	35	Universal Micrometers
15	Two and Three Point Internal Micrometers (2-12mm/.08-.5")	36	V-Anvil Micrometers
16	Three-Point Internal Micrometers (12-100mm/.5-4.0")	37	Tube Micrometers
17	Three-Point Internal Micrometers (100-300mm/4.0-12.0")	39	Deep Throat Micrometers
18	Two and Three Point Internal Micrometers Sets	40	Limit Micrometers
19	Pistol Grip Bore Gauge (6-100mm)	40	Wire Micrometers
20	Pistol Grip Bore Gauge (100-300mm)	41	Sheet Metal Micrometers
21	Pistol Grip Bore Gauge Sets	41	Hub Micrometers
22	Inside Micrometers	42	Groove Micrometers
23	Dual Measurement Inside Micrometers	43	Snap Gauges
23	Tubular Inside Micrometers	44	Can Seam Micrometers
24	Inside Micrometers - Interchangeable Rod Type	44	Digital Micrometer Heads
25	Quick-Setting Outside Micrometers, 1mm Rev	45	Micrometer Heads
25	Micrometer Stands	51	Depth Micrometers
26	Blade Micrometers	52	Micrometer Standards
27	Multi-Anvil Micrometers		
28	Point Micrometers		





IP65 Digital Outside Micrometers

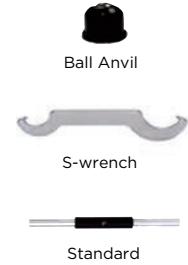
105 Series



105-01-4



105-66-8



FEATURES

- Resolution: .00005" / 0.001mm
- Flatness: .000012" / 0.3µm
- Protection level IP65
- Cable data output: 900-05-4 / 5
- Wireless data output:
Transmitting device: 901-00-4 / 6
Receiver device: 901-00-3
- Carbide tipped measuring faces
- Upon switch on the display will read the actual absolute measuring position
- Automatic off to maximize battery life
- Inch / Metric conversion
- Absolute or incremental measuring modes
- Grey painted steel frame

STANDARD ACCESSORIES

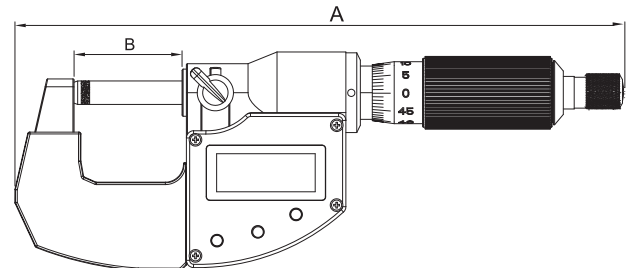
- S-wrench, Battery, Ball Anvil, Standard (over 1" / 25mm range)
- Warranty card, Calibration certificate, Instruction manual

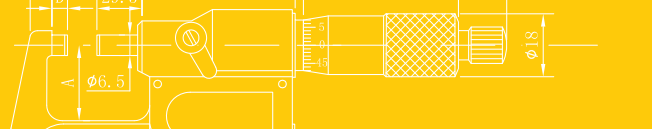
SPECIFICATIONS

Inch		Metric		With Data Output		
Range	Accuracy	Range	Accuracy	Thimble	Inch Code No.	Metric Code No.
0-1"	± .0001"	0-25mm	± 0.002mm	dual ratchets	105-01-5	105-01-4
1-2"	± .0002"	25-50mm	± 0.002mm	dual ratchets	105-02-5	105-02-4
2-3"	± .0002"	50-75mm	± 0.003mm	dual ratchets	105-03-5	105-03-4
3-4"	± .0002"	75-100mm	± 0.003mm	dual ratchets	105-04-5	105-04-4
4-5"	± .0002"	100-125mm	± 0.003mm	dual ratchets	105-05-5	105-05-4
5-6"	± .0002"	125-150mm	± 0.003mm	dual ratchets	105-06-5	105-06-4
Sets						
Range	Quantity	Range	Quantity	Thimble		
0-3"	3	0-75mm	3	dual ratchets	105-63-9	105-63-8
0-4"	4	0-100mm	4	dual ratchets	105-64-9	105-64-8
0-6"	6	0-150mm	6	dual ratchets	105-66-9	105-66-8

Dimension

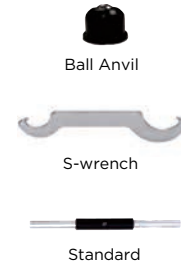
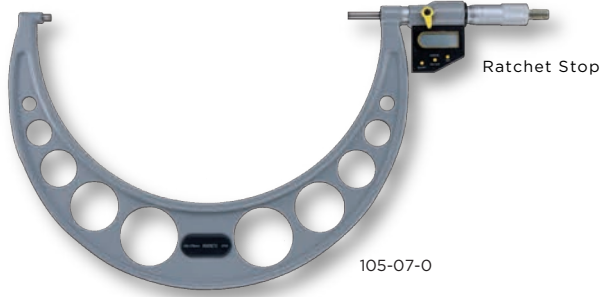
Range	B	A
Inch/Metric	mm	mm
0-1"/0-25mm	30	168
1-2"/25-50mm	55	198
2-3"/50-75mm	81	226
3-4"/75-100mm	106	256
4-5"/100-125mm	131	286
5-6"/125-150mm	156	316





IP65 Digital Outside Micrometers

105 Series



FEATURES

- Resolution:
 - Digital: .00005" / 0.001mm
 - Scale: .0001" / 0.01mm
- Flatness: .000012" / 0.3µm
- Protection level IP65
- Grey painted steel frame
- Upon switch on the display will read the actual absolute measuring position
- Automatic On / Off to maximize battery life
- Inch / Metric conversion
- Absolute or incremental measuring modes
- Carbide tipped measuring faces

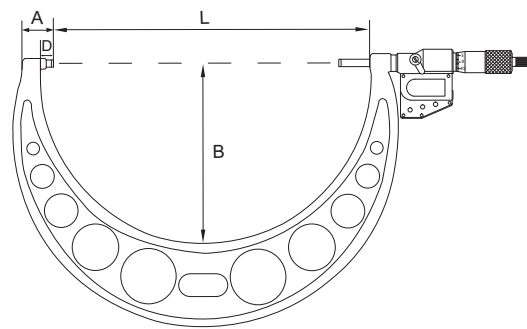
STANDARD ACCESSORIES

- S-wrench, Battery, Ball Anvil, Standard
- Warranty card, Calibration certificate, Instruction manual

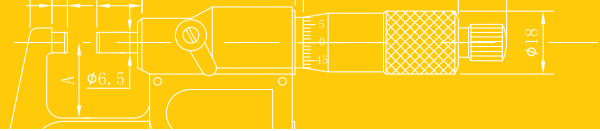
SPECIFICATIONS

Inch		Metric		Thimble	W/O Data Output	
Range	Accuracy	Range	Accuracy		Inch Code No.	Metric Code No.
6-7"	± .0002"	150-175mm	± 0.004mm	Ratchet	105-07-1	105-07-0
7-8"	± .0002"	175-200mm	± 0.004mm	Ratchet	105-08-1	105-08-0
8-9"	± .0002"	200-225mm	± 0.004mm	Ratchet	105-09-1	105-09-0
9-10"	± .0003"	225-250mm	± 0.004mm	Ratchet	105-10-1	105-10-0
10-11"	± .0003"	250-275mm	± 0.005mm	Ratchet	105-11-1	105-11-0
11-12"	± .0003"	275-300mm	± 0.005mm	Ratchet	105-12-1	105-12-0

Dimension



Range	A	L	B	D
Inch/Metric	mm	mm	mm	mm
6-7"/150-175mm	19.4	183	104	5.5
7-8"/175-200mm	19.4	209	117	5.5
8-9"/200-225mm	19.4	234	130	5.5
9-10"/225-250mm	-	260	142	5.5
10-11"/250-275mm	-	285	155	5.5
11-12"/275-300mm	-	310	168	5.5



Digital Outside Micrometers

116 Series



116-01-0



Ball Anvil

Standard

FEATURES

- Resolution: .00005" / 0.001mm
- Carbide tipped measuring faces
- Spindle dia.: 0.25"
- Painted frame
- Ratchet friction thimble
- Inch / Metric conversion
- Absolute or incremental measuring modes
- Automatic On / Off to maximize battery life

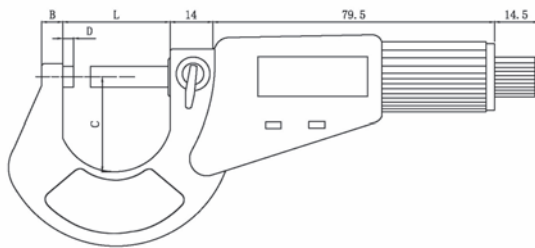
STANDARD ACCESSORIES

- Battery, Ball Anvil, Standard (over 1" / 25mm range)
- Warranty card, Calibration certificate, Instruction manual

SPECIFICATIONS

Inch		Metric		Inch	Metric
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-1"	± .0001"	0-25mm	± 0.002mm	116-01-1	116-01-0
1-2"	± .0002"	25-50mm	± 0.002mm	116-02-1	116-02-0
2-3"	± .0002"	50-75mm	± 0.003mm	116-03-1	116-03-0
3-4"	± .0002"	75-100mm	± 0.003mm	116-04-1	116-04-0
4-5"	± .0002"	100-125mm	± 0.003mm	116-05-1	116-05-0
5-6"	± .0002"	125-150mm	± 0.003mm	116-06-1	116-06-0
6-7"	± .0002"	150-175mm	± 0.004mm	116-07-1	116-07-0
7-8"	± .0002"	175-200mm	± 0.004mm	116-08-1	116-08-0
Sets					
Range	Quantity	Range	Quantity		
0-3"	3	0-75mm	3	116-63-1	116-63-0
0-4"	4	0-100mm	4	116-64-1	116-64-0

Dimension

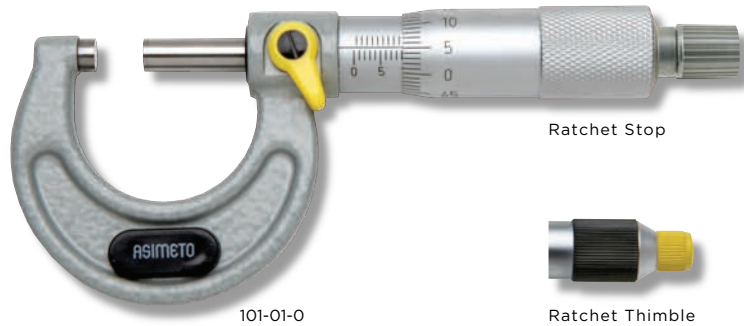


Range	C	L	B	D
Inch/Metric	mm	mm	mm	mm
0-1"/0-25mm	24	32	6	3
1-2"/25-50mm	32	57	8	3
2-3"/50-75mm	45	82	8	3
3-4"/75-100mm	57	107	10	3
4-5"/100-125mm	70	133	10	3
5-6"/125-150mm	82	158	10	3
6-7"/150-175mm	95	183	12	5.5
7-8"/175-200mm	107	209	12	5.5



Outside Micrometers

101 / 103 Series



101-01-0

Ratchet Stop



Ratchet Thimble



S-wrench



Standard

FEATURES

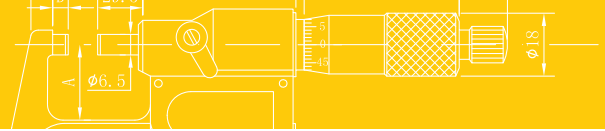
- Graduation: Inch: .001" / .0001" ; Metric: 0.01mm / 0.001mm
- Flatness: .000024" / 0.6μm
- Carbide tipped measuring faces
- Ratchet Stop and Ratchet Thimble are optional
- Grey painted steel frame

STANDARD ACCESSORIES

- S-wrench, Standard (over 1" / 25mm range)
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch			Metric			Ratchet Stop		Ratchet Thimble	
Range	Graduation	Accuracy	Range	Graduation	Accuracy	Inch Code No.	Metric Code No.	Inch Code No.	Metric Code No.
0-1"	.001"	± .0001"	0-25mm	0.01mm	0.004mm	101-01-1	101-01-0	103-01-5	103-01-4
1-2"	.001"	± .0002"	25-50mm	0.01mm	0.004mm	101-02-1	101-02-0	103-02-5	103-02-4
2-3"	.001"	± .0002"	50-75mm	0.01mm	0.005mm	101-03-1	101-03-0	103-03-5	103-03-4
3-4"	.001"	± .0002"	75-100mm	0.01mm	0.005mm	101-04-1	101-04-0	103-04-5	103-04-4
4-5"	.001"	± .0002"	100-125mm	0.01mm	0.006mm	101-05-1	101-05-0	103-05-5	103-05-4
5-6"	.001"	± .0002"	125-150mm	0.01mm	0.006mm	101-06-1	101-06-0	103-06-5	103-06-4
6-7"	.001"	± .0002"	150-175mm	0.01mm	0.007mm	101-07-1	101-07-0	103-07-5	103-07-4
7-8"	.001"	± .0002"	175-200mm	0.01mm	0.007mm	101-08-1	101-08-0	103-08-5	103-08-4
8-9"	.001"	± .0002"	200-225mm	0.01mm	0.008mm	101-09-1	101-09-0	103-09-5	103-09-4
9-10"	.001"	± .0003"	225-250mm	0.01mm	0.008mm	101-10-1	101-10-0	103-10-5	103-10-4
10-11"	.001"	± .0003"	250-275mm	0.01mm	0.009mm	101-11-1	101-11-0	103-11-5	103-11-4
11-12"	.001"	± .0003"	275-300mm	0.01mm	0.009mm	101-12-1	101-12-0	103-12-5	103-12-4
0-1"	.0001"	± .0001"	0-25mm	0.001mm	0.004mm	101-01-3	101-01-2	103-01-7	103-01-6
1-2"	.0001"	± .0002"	25-50mm	0.001mm	0.004mm	101-02-3	101-02-2	103-02-7	103-02-6
2-3"	.0001"	± .0002"	50-75mm	0.001mm	0.005mm	101-03-3	101-03-2	103-03-7	103-03-6
3-4"	.0001"	± .0002"	75-100mm	0.001mm	0.005mm	101-04-3	101-04-2	103-04-7	103-04-6
4-5"	.0001"	± .0002"	100-125mm	0.001mm	0.006mm	101-05-3	101-05-2	103-05-7	103-05-6
5-6"	.0001"	± .0002"	125-150mm	0.001mm	0.006mm	101-06-3	101-06-2	103-06-7	103-06-6
6-7"	.0001"	± .0002"	150-175mm	0.001mm	0.007mm	101-07-3	101-07-2	103-07-7	103-07-6
7-8"	.0001"	± .0002"	175-200mm	0.001mm	0.007mm	101-08-3	101-08-2	103-08-7	103-08-6
8-9"	.0001"	± .0002"	200-225mm	0.001mm	0.008mm	101-09-3	101-09-2	103-09-7	103-09-6
9-10"	.0001"	± .0003"	225-250mm	0.001mm	0.008mm	101-10-3	101-10-2	103-10-7	103-10-6
10-11"	.0001"	± .0003"	250-275mm	0.001mm	0.009mm	101-11-3	101-11-2	103-11-7	103-11-6
11-12"	.0001"	± .0003"	275-300mm	0.001mm	0.009mm	101-12-3	101-12-2	103-12-7	103-12-6



Outside Micrometer Sets

101 Series

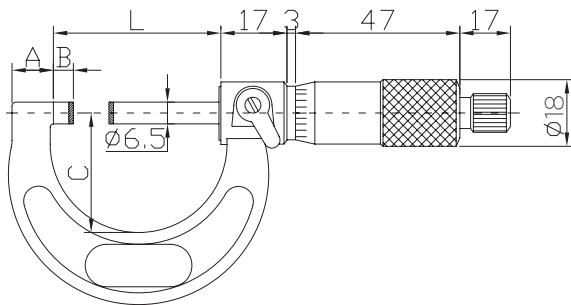


101-66-8

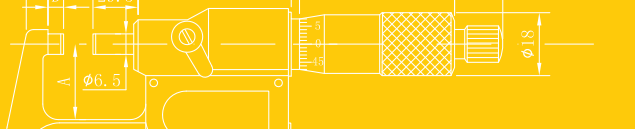
SPECIFICATIONS

Inch		Metric		Inch	Metric
Range	Graduation	Range	Graduation	Code No.	Code No.
0-3"	.001"	0-75mm	0.01mm	101-63-9	101-63-8
0-4"	.001"	0-100mm	0.01mm	101-64-9	101-64-8
0-6"	.001"	0-150mm	0.01mm	101-66-9	101-66-8
0-12"	.001"	0-300mm	0.01mm	101-72-9	101-72-8
6-12"	.001"	150-300mm	0.01mm	101-82-9	101-82-8
0-3"	.0001"	0-75mm	0.001mm	101-63-7	101-63-6
0-4"	.0001"	0-100mm	0.001mm	101-64-7	101-64-6
0-6"	.0001"	0-150mm	0.001mm	101-66-7	101-66-6
0-12"	.0001"	0-300mm	0.001mm	101-72-7	101-72-6
6-12"	.0001"	150-300mm	0.001mm	101-82-7	101-82-6

Dimension



Range	A	B	C	L
Inch/Metric	mm	mm	mm	mm
0-1" / 0-25mm	9	3	28	32
1-2" / 25-50mm	14	3	38	57
2-3" / 50-75mm	14.5	3	49	82
3-4" / 75-100mm	15	3	60	107
4-5" / 100-125mm	16.5	3	73	133
5-6" / 125-150mm	16.5	3	85	158
6-7" / 150-175mm	19.4	3	104	183
7-8" / 175-200mm	19.4	3	117	209
8-9" / 200-225mm	19.4	3	130	234
9-10" / 225-250mm	19.4	3	142	260
10-11" / 250-275mm	19.4	3	155	285
11-12" / 275-300mm	19.4	3	168	310



Interchangeable Anvil Outside Micrometers

111 / 115 Series



Digital models



111-06-1



S-wrench



Torque Wrench



Standard



Guiding rings

FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .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 models
- Inch / Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On / Off to maximize battery life
- Absolute or incremental measuring modes
- Protection level IP65

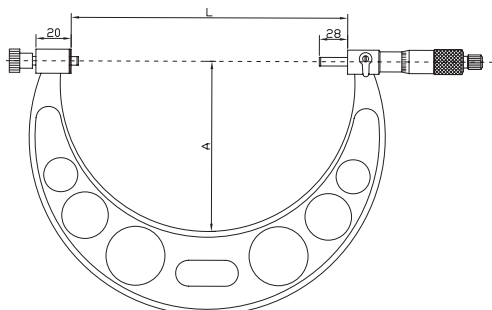
STANDARD ACCESSORIES

- S-wrench, Battery (Digital models), Standards, Interchangeable anvils, Torque wrench, 2 Guiding rings
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

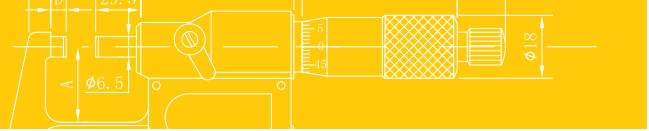
Inch		Metric		Digital models			Mechanical models			
Range	Accuracy	Range	Anvils	Standards	Inch Code No.	Metric Code No.	Accuracy	Inch Code No.	Metric Code No.	Accuracy
0-6"	± .0002"	0-150mm	6 pcs	5 pcs	115-06-1	115-06-0	± 0.003mm	111-06-1	111-06-0	0.006mm
6-12"	± .0003"	150-300mm	6 pcs	6 pcs	115-12-1	115-12-0	± 0.005mm	111-12-1	111-12-0	0.008mm
0-4"	± .0002"	0-100mm	4 pcs	3 pcs	115-04-7	115-04-6	± 0.003mm	111-04-7	111-04-6	0.005mm
4-8"	± .0003"	100-200mm	4 pcs	4 pcs	115-08-7	115-08-6	± 0.004mm	111-08-7	111-08-6	0.007mm
8-12"	± .0003"	200-300mm	4 pcs	4 pcs	115-12-7	115-12-6	± 0.005mm	111-12-7	111-12-6	0.009mm
12-16"	± .0004"	300-400mm	4 pcs	2 pcs	115-16-1	115-16-0	± 0.006mm	111-16-1	111-16-0	0.011mm
16-20"	± .0005"	400-500mm	4 pcs	2 pcs	115-20-1	115-20-0	± 0.007mm	111-20-1	111-20-0	0.013mm
20-24"	± .0006"	500-600mm	4 pcs	2 pcs	115-24-1	115-24-0	± 0.007mm	111-24-1	111-24-0	0.015mm
24-28"	± .0006"	600-700mm	4 pcs	2 pcs	115-28-1	115-28-0	± 0.008mm	111-28-1	111-28-0	0.016mm
28-32"	± .0007"	700-800mm	4 pcs	2 pcs	115-32-1	115-32-0	± 0.009mm	111-32-1	111-32-0	0.018mm
32-36"	± .0008"	800-900mm	4 pcs	2 pcs	115-36-1	115-36-0	± 0.010mm	111-36-1	111-36-0	0.020mm
36-40"	± .0008"	900-1000mm	4 pcs	2 pcs	115-40-1	115-40-0	± 0.010mm	111-40-1	111-40-0	0.020mm

Dimension



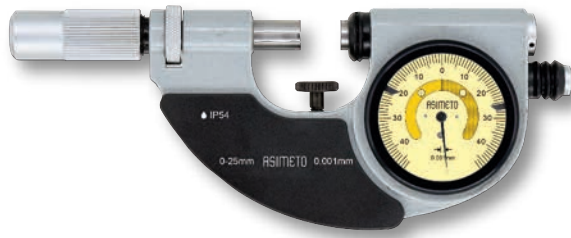
Note: The individual anvils are matched as a set with the frame. The accuracy can not be guaranteed if used with a different frame

Range	Scope of application	A	L
Inch	Metric	mm	mm
0-6"	0-150mm	82	158
6-12"	150-300mm	165	308
0-4"	0-100mm	57	108
4-8"	100-200mm	114	208
8-12"	200-300mm	165	308
12-16"	300-400mm	224	409
16-20"	400-500mm	275	509
20-24"	500-600mm	321	609
24-28"	600-700mm	371	709
28-32"	700-800mm	426	809
32-36"	800-900mm	476	909
36-40"	900-1000mm	576	1009



Dial Snap Gauge

152 Series



152-01-4



Standard

FEATURES

- IP protection level: IP54
- Carbide tipped measuring faces, spindle diameter $\phi 10$
- Dial indication accuracy: 0.001mm / .00005"
- Dial rang: $e \pm 0.04\text{mm} / \pm .0015"$
- Direct GO / NG judgment
- Big size indicator, easy to be read.
- Dial reading: 0.001mm / .00005"
- Measuring force 5-10N

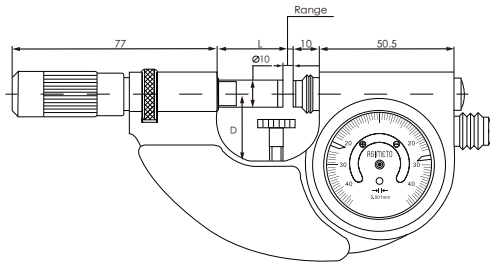
STANDARD ACCESSORIES

- Standard (over 1" / 25mm range)
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch		Metric		Inch	Metric
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-1"	$\pm .00005"$	0-25mm	0.001mm	152-01-5	152-01-4
1-2"	$\pm .00005"$	25-50mm	0.001mm	152-02-5	152-02-4
2-3"	$\pm .00005"$	50-75mm	0.001mm	152-03-5	152-03-4
3-4"	$\pm .00005"$	75-100mm	0.001mm	152-04-5	152-04-4

Dimension



Range	D	L
Inch/Metric	mm	mm
0-1"/0-25mm	25	28.5
1-2"/25-50mm	35	53.5
2-3"/50-75mm	47.5	78.5
3-4"/75-100mm	60	103.5

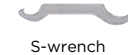


Indicating Micrometers

152 Series



152-01-0



S-wrench



Standard

FEATURES

- Resolution:
Indicator: .00005" / 0.001mm
Scale: .0001" / 0.002mm
- Carbide tipped measuring faces
- Grey painted steel frame
- Indicator range: $\pm 0.04\text{mm}$
- Retractable anvil with an indicator for precision measurement of mass-produced parts

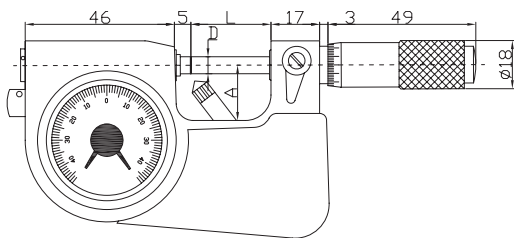
STANDARD ACCESSORIES

- S-wrench, Standard (over 1" / 25mm range)
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch		Metric		Inch	Metric
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-1"	$\pm .0001"$	0-25mm	0.002mm	152-01-1	152-01-0
1-2"	$\pm .0002"$	25-50mm	0.002mm	152-02-1	152-02-0
2-3"	$\pm .0002"$	50-75mm	0.003mm	152-03-1	152-03-0
3-4"	$\pm .0002"$	75-100mm	0.003mm	152-04-1	152-04-0

Dimension



Range	L	A	D
Inch/Metric	mm	mm	mm
0-1"/0-25mm	28.5	19	$\varnothing 6.5$
1-2"/25-50mm	53.5	30	$\varnothing 6.5$
2-3"/50-75mm	78.5	45	$\varnothing 6.5$
3-4"/75-100mm	103.5	57	$\varnothing 6.5$

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

208 / 209 Series



208-12-0



209-09-0

FEATURES

- Resolution:
 - Digital models: .00005" / 0.001mm
 - Mechanical models: .0001" / 0.001mm
- Protection level IP65
- Ratchet stop
- Setting ring supplied
- Measuring contact points are designed to allow measurements near to the bottom of blind holes
- Models up to and including 6mm / .24 inch have two measuring points, models (over 6mm / .24 inch) with three measuring points

STANDARD ACCESSORIES

- Battery (Digital models), Setting Ring, Extension rod (over 6-8mm range), S-wrench, Screwdriver
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Digital models

Inch			Metric						Inch		Metric	
Range	Accuracy	Setting Ring	Range	Accuracy	Setting Ring	L	A	Extension Rod	Code No.	Code No.		
.08-.1"	± .00015"	.1"	2-2.5mm	0.004mm	2.5mm	12.5mm	-	-	208-06-1	208-06-0		
.1-.12"	± .00015"	.1"	2.5-3mm	0.004mm	2.5mm	12.5mm	-	-	208-07-1	208-07-0		
.12-.16"	± .00015"	.16"	3-4mm	0.004mm	4mm	22.5mm	-	-	208-08-1	208-08-0		
.16-.2"	± .00015"	.16"	4-5mm	0.004mm	5mm	22.5mm	-	-	208-09-1	208-09-0		
.2-.24"	± .00015"	.24"	5-6mm	0.004mm	6mm	22.5mm	-	-	208-10-1	208-10-0		
.24-.28"	± .00015"	.24"	-	-	-	22.5mm	-	-	208-10-5	-		
.275-.35"	± .0001"	.275"	6-8mm	0.004mm	6mm	53.5mm	0.5mm	100mm	208-11-1	208-11-0		
.35-.425"	± .0001"	.35"	8-10mm	0.004mm	8mm	53.5mm	0.5mm	100mm	208-12-1	208-12-0		
.425-.5"	± .0001"	.5"	10-12mm	0.004mm	10mm	53.5mm	0.5mm	100mm	208-13-1	208-13-0		

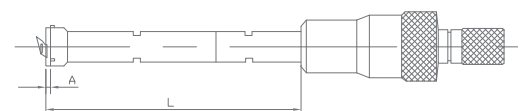
Mechanical models

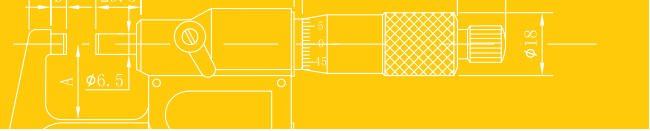
Inch			Metric						Inch		Metric	
Range	Accuracy	Setting Ring	Range	Accuracy	Setting Ring	L	A	Extension Rod	Code No.	Code No.		
.08-.1"	± .00015"	.1"	2-2.5mm	0.004mm	2.5mm	12.5mm	-	-	209-06-1	209-06-0		
.1-.12"	± .00015"	.1"	2.5-3mm	0.004mm	2.5mm	12.5mm	-	-	209-07-1	209-07-0		
.12-.16"	± .00015"	.16"	3-4mm	0.004mm	4mm	22.5mm	-	-	209-08-1	209-08-0		
.16-.2"	± .00015"	.16"	4-5mm	0.004mm	5mm	22.5mm	-	-	209-09-1	209-09-0		
.2-.24"	± .00015"	.24"	5-6mm	0.004mm	6mm	22.5mm	-	-	209-10-1	209-10-0		
.24-.28"	± .00015"	.24"	-	-	-	22.5mm	-	-	209-10-5	-		
.275-.35"	± .0001"	.275"	6-8mm	0.004mm	6mm	53.5mm	0.5mm	100mm	209-11-1	209-11-0		
.35-.425"	± .0001"	.35"	8-10mm	0.004mm	8mm	53.5mm	0.5mm	100mm	209-12-1	209-12-0		
.425-.5"	± .0001"	.5"	10-12mm	0.004mm	10mm	53.5mm	0.5mm	100mm	209-13-1	209-13-0		

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



Dimension: 6-12mm/.275 - 0.5"





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

208 / 209 Series



208-28-0



209-26-0

FEATURES

- Resolution:
 - Digital models: .00005" / 0.001mm
 - Mechanical models: .0002" / 0.005mm
- Protection level IP65
- 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

STANDARD ACCESSORIES

- Battery (Digital models),
- Extension rod (over 6-8mm range),
- Wrench, Screwdriver, Setting ring
- Warranty card, Instruction manual, Calibration certificate

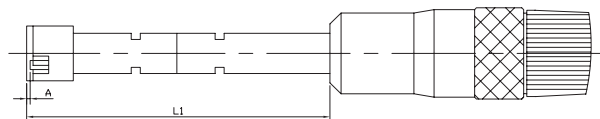
SPECIFICATIONS

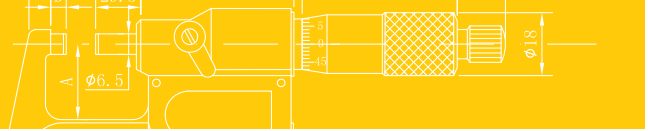
Digital models

Inch			Metric						Inch		Metric	
Range	Accuracy	Setting Ring	Range	Accuracy	Setting Ring	L1	A	Extension Rod	Code No.	Code No.		
.5-.65"	±.0001"	.65"	12-16mm	0.004mm	16mm	80mm	0.5mm	150mm	208-24-1	208-24-0		
.65-.8"	±.0001"	.65"	16-20mm	0.004mm	16mm	80mm	0.5mm	150mm	208-25-1	208-25-0		
.8-1"	±.0001"	1"	20-25mm	0.004mm	25mm	90mm	0.5mm	150mm	208-26-1	208-26-0		
1-1.2"	±.0002"	1"	25-30mm	0.004mm	25mm	90mm	0.5mm	150mm	208-27-1	208-27-0		
1.2-1.6"	±.0002"	1.6"	30-40mm	0.004mm	40mm	97mm	0.5mm	150mm	208-28-1	208-28-0		
1.6-2"	±.0002"	1.6"	40-50mm	0.005mm	40mm	97mm	0.5mm	150mm	208-29-1	208-29-0		
2-2.5"	±.0002"	2.5"	50-63mm	0.005mm	62mm	114mm	0.5mm	150mm	208-30-1	208-30-0		
2.5-3"	±.0002"	2.5"	62-75mm	0.005mm	62mm	114mm	0.5mm	150mm	208-31-1	208-31-0		
3-3.5"	±.0002"	3.5"	75-88mm	0.005mm	87mm	114mm	0.5mm	150mm	208-32-1	208-32-0		
3.5-4"	±.0002"	3.5"	87-100mm	0.005mm	87mm	114mm	0.5mm	150mm	208-33-1	208-33-0		

Mechanical models

Inch			Metric						Inch		Metric	
Range	Accuracy	Setting Ring	Range	Accuracy	Setting Ring	L1	A	Extension Rod	Code No.	Code No.		
.5-.65"	±.0001"	.65"	12-16mm	0.004mm	16mm	80mm	0.5mm	150mm	209-24-1	209-24-0		
.65-.8"	±.0001"	.65"	16-20mm	0.004mm	16mm	80mm	0.5mm	150mm	209-25-1	209-25-0		
.8-1"	±.0001"	1"	20-25mm	0.004mm	25mm	90mm	0.5mm	150mm	209-26-1	209-26-0		
1-1.2"	±.0002"	1"	25-30mm	0.004mm	25mm	90mm	0.5mm	150mm	209-27-1	209-27-0		
1.2-1.6"	±.0002"	1.6"	30-40mm	0.004mm	40mm	97mm	0.5mm	150mm	209-28-1	209-28-0		
1.6-2"	±.0002"	1.6"	40-50mm	0.004mm	40mm	97mm	0.5mm	150mm	209-29-1	209-29-0		
2-2.5"	±.0002"	2.5"	50-63mm	0.005mm	62mm	114mm	0.5mm	150mm	209-30-1	209-30-0		
2.5-3"	±.0002"	2.5"	62-75mm	0.005mm	62mm	114mm	0.5mm	150mm	209-31-1	209-31-0		
3-3.5"	±.0002"	3.5"	75-88mm	0.005mm	87mm	114mm	0.5mm	150mm	209-32-1	209-32-0		
3.5-4"	±.0002"	3.5"	87-100mm	0.005mm	87mm	114mm	0.5mm	150mm	209-33-1	209-33-0		

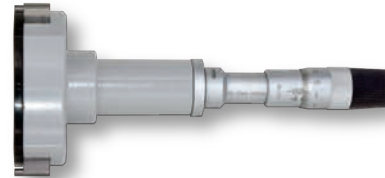




Three-Point Internal Micrometers (100-300mm/4.0-12.0") 208 / 209 Series



208-34-2



209-34-2



FEATURES

- Resolution:
 - Digital models: .00005" / 0.001mm
 - Mechanical models: .0002" / 0.005mm
- Protection level IP65
- 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 with the set but are optional

STANDARD ACCESSORIES

- Battery (Digital models)
- Extension rod (over 6-8mm range)
- Wrench, Screwdriver
- Warranty card, Instruction manual, Calibration certificate

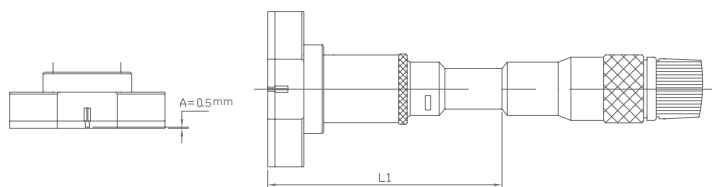
SPECIFICATIONS

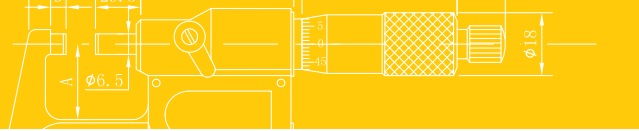
Digital models

Inch			Metric			Optional		Inch		Metric
Range	Accuracy	Setting Ring	Range	Accuracy	Setting Ring	L1	Extension Rod	Code No.	Code No.	
4-5"	± .0002"	4"	100-125mm	0.005mm	100mm	145mm	150mm	208-34-1	208-34-0	
5-6"	± .0002"	5"	125-150mm	0.005mm	125mm	145mm	150mm	208-35-1	208-35-0	
6-7"	± .0002"	6"	150-175mm	0.005mm	150mm	145mm	150mm	208-36-1	208-36-0	
7-8"	± .0002"	7"	175-200mm	0.005mm	175mm	145mm	150mm	208-37-1	208-37-0	
8-9"	± .00028"	8"	200-225mm	0.007mm	200mm	145mm	150mm	208-38-1	208-38-0	
9-10"	± .00028"	9"	225-250mm	0.007mm	225mm	145mm	150mm	208-39-1	208-39-0	
10-11"	± .00028"	10"	250-275mm	0.007mm	250mm	145mm	150mm	208-40-1	208-40-0	
11-12"	± .00028"	11"	275-300mm	0.007mm	275mm	145mm	150mm	208-41-1	208-41-0	

Mechanical models

Inch			Metric			Optional		Inch		Metric
Range	Accuracy	Setting Ring	Range	Accuracy	Setting Ring	L1	Extension Rod	Code No.	Code No.	
4-5"	± .0002"	4"	100-125mm	0.005mm	100mm	145mm	150mm	209-34-1	209-34-0	
5-6"	± .0002"	5"	125-150mm	0.005mm	125mm	145mm	150mm	209-35-1	209-35-0	
6-7"	± .0002"	6"	150-175mm	0.005mm	150mm	145mm	150mm	209-36-1	209-36-0	
7-8"	± .0002"	7"	175-200mm	0.005mm	175mm	145mm	150mm	209-37-1	209-37-0	
8-9"	± .00028"	8"	200-225mm	0.007mm	200mm	145mm	150mm	209-38-1	209-38-0	
9-10"	± .00028"	9"	225-250mm	0.007mm	225mm	145mm	150mm	209-39-1	209-39-0	
10-11"	± .00028"	10"	250-275mm	0.007mm	250mm	145mm	150mm	209-40-1	209-40-0	
11-12"	± .00028"	11"	275-300mm	0.007mm	275mm	145mm	150mm	209-41-1	209-41-0	





Two and Three Point Internal Micrometers Sets

208 / 209 Series



209-62-8

SPECIFICATIONS

Digital models

Range	Individual range	Setting Ring	Extension Rod	Code No.
Inch				
.08-.12"	0.08-0.1", 0.1-0.12" 2 pcs	0.1"	-	208-61-9
.12-.28"	0.12-0.16", 0.16"-0.2", 0.2-0.24", 0.24-0.28" 4 pcs	0.16", 0.24"	-	208-62-9
.275-.5"	0.275-0.35", 0.35-0.425", 0.425"-0.5" 3 pcs	0.275", 0.35", 0.5"	4"	208-63-9
.5-.8"	0.5-0.65", 0.65-0.8" 2 pcs	0.65"	6"	208-64-9
.8-2"	0.8-1", 1-1.2", 1.2-1.6", 1.6-2" 4 pcs	1", 1.6"	6"	208-65-9
2-4"	2-2.5", 2.5-3", 3-3.5", 3.5-4" 4 pcs	2.5", 3.5"	6"	208-66-9
Metric				
2-3mm	2-2.5, 2.5-3mm 2 pcs	2.5mm	-	208-61-8
3-6mm	3-4, 4-5, 5-6mm 3 pcs	4, 5, 6mm	-	208-62-8
6-12mm	6-8, 8-10, 10-12mm 3 pcs	6, 8, 10mm	100mm	208-63-8
12-20mm	12-16, 16-20mm 2 pcs	16mm	150mm	208-64-8
20-50mm	20-25, 25-30, 30-40, 40-50mm 4 pcs	25, 40mm	150mm	208-65-8
50-100mm	50-63, 62-75, 75-88, 87-100mm 4 pcs	62, 87mm	150mm	208-66-8

Mechanical models

Range	Individual range	Setting Ring	Extension Rod	Code No.
Inch				
.08-.12"	0.08-0.1", 0.1-0.12" 2 pcs	0.1"	-	209-61-9
.12-.28"	0.12-0.16", 0.16"-0.2", 0.2-0.24", 0.24-0.28" 4 pcs	0.16", 0.24"	-	209-62-9
.275-.5"	0.275-0.35", 0.35-0.425", 0.425"-0.5" 3 pcs	0.275", 0.35", 0.5"	4"	209-63-9
.5-.8"	0.5-0.65", 0.65-0.8" 2 pcs	0.65"	6"	209-64-9
.8-2"	0.8-1", 1-1.2", 1.2-1.6", 1.6-2" 4 pcs	1", 1.6"	6"	209-65-9
2-4"	2-2.5", 2.5-3", 3-3.5", 3.5-4" 4 pcs	2.5", 3.5"	6"	209-66-9
Metric				
2-3mm	2-2.5, 2.5-3mm 2 pcs	2.5mm	-	209-61-8
3-6mm	3-4, 4-5, 5-6mm 3 pcs	4, 5, 6mm	-	209-62-8
6-12mm	6-8, 8-10, 10-12mm 3 pcs	6, 8, 10mm	100mm	209-63-8
12-20mm	12-16, 16-20mm 2 pcs	16mm	150mm	209-64-8
20-50mm	20-25, 25-30, 30-40, 40-50mm 4 pcs	25, 40mm	150mm	209-65-8
50-100mm	50-63, 62-75, 75-88, 87-100mm 4 pcs	62, 87mm	150mm	209-66-8



Pistol Grip Bore Gauge (100-300mm)

245 Series



STANDARD ACCESSORIES

- Battery, Extension rod, Wrench, Setting Ring included (optional for 100mm / 4")
- Warranty card, Instruction manual, Calibration certificate

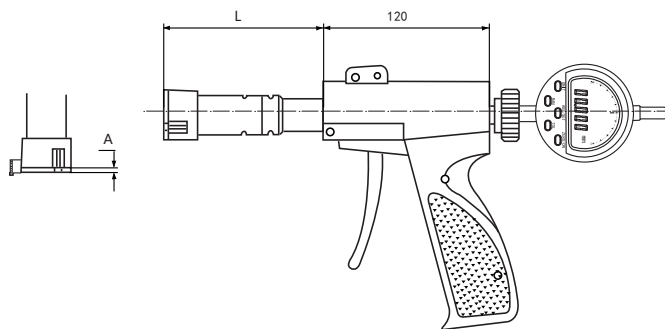
FEATURES

- Digital indicator resolution: .00005" / 0.002mm
- Single handed easy operation, suitable for left or right hand
- Self-centering 3 point contact for high accurate internal measurement
- Highly durable carbide tipped contact points
- Extension rod included for deep hole measurement
- Products include: bore gage, Indicator, extension rod, setting rings and wrench
- Accommodate any standard 8mm or 3 / 8" stem indicator
- 330 rotatable display device that can read values from any angle
- GO / NO-GO judgment function

SPECIFICATIONS

Inch						
Range	Accuracy	Setting Ring (Optional)	L	A	Extension Rod	Code No.
4.0-5.0"	±.0002"	4"	5.2"	.02"	6"	245-34-1
5.0-6.0"	±.0002"	5"	5.2"	.02"	6"	245-35-1
6.0-7.0"	±.0002"	6"	5.2"	.02"	6"	245-36-1
7.0-8.0"	±.0002"	7"	5.2"	.02"	6"	245-37-1
8.0-9.0"	±.00028"	8"	5.2"	.02"	6"	245-38-1
9.0-10.0"	±.00028"	9"	5.2"	.02"	6"	245-39-1
10.0-11.0"	±.00028"	10"	5.2"	.02"	6"	245-40-1
11.0-12.0"	±.00028"	11"	5.2"	.02"	6"	245-41-1

Metric						
Range	Accuracy	Setting Ring (Optional)	L	A	Extension Rod	Code No.
100-125mm	0.005mm	100mm	130mm	0.5mm	150mm	245-34-0
125-150mm	0.005mm	125mm	130mm	0.5mm	150mm	245-35-0
150-175mm	0.005mm	150mm	130mm	0.5mm	150mm	245-36-0
175-200mm	0.005mm	175mm	130mm	0.5mm	150mm	245-37-0
200-225mm	0.007mm	200mm	130mm	0.5mm	150mm	245-38-0
225-250mm	0.007mm	225mm	130mm	0.5mm	150mm	245-39-0
250-275mm	0.007mm	250mm	130mm	0.5mm	150mm	245-40-0
275-300mm	0.007mm	275mm	130mm	0.5mm	150mm	245-41-0





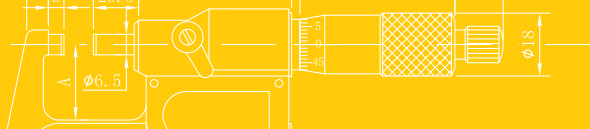
Pistol Grip Bore Gauge Sets

245 Series



SPECIFICATIONS

Set Range	Individual Range	Setting Ring	Extension Rod	Code No.
Inch				
.275-.5"	0.275-0.35", 0.35-0.425", 0.425"-0.5" (3 pcs)	0.275", 0.35", 0.5"	4"	245-63-9
.5-.8"	0.5-0.65", 0.65-0.8" (2 pcs)	0.65"	6"	245-64-9
.8-2"	0.8-1", 1-1.2", 1.2-1.6", 1.6-2" (4 pcs)	1", 1.6"	6"	245-65-9
2-4"	2-2.5", 2.5-3", 3-3.5", 3.5-4" (4 pcs)	2.5", 3.5"	6"	245-66-9
Metric				
6-12mm	6-8, 8-10, 10-12mm (3 pcs)	6, 8, 10mm	100mm	245-63-8
12-20mm	12-16, 16-20mm (2 pcs)	16mm	150mm	245-64-8
20-50mm	20-25, 25-30, 30-40, 40-50mm (4 pcs)	25, 40mm	150mm	245-65-8
50-100mm	50-63, 62-75, 75-88, 87-100mm (4 pcs)	62, 87mm	150mm	245-66-8



Inside Micrometers

203 / 207 Series



207-01-1



203-02-0

FEATURES

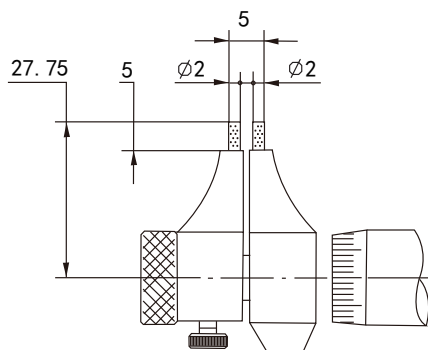
- Resolution:
Digital models: .00005" / 0.001mm
Mechanical models: .001" / 0.01mm
- Designed for the measurement of intricate internal characteristics
- 207 Series has solid carbide pins for measurement contact points
- Satin chrome finished
- .2-1.2" / 5-30mm and 1-2" / 25-50mm range are supplied with Setting Ring
- Ratchet stop

STANDARD ACCESSORIES

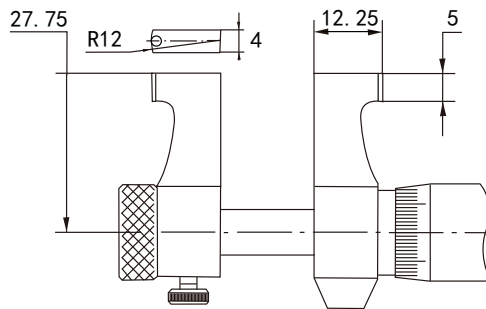
- Battery (Digital models), S-wrench, Setting Ring
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

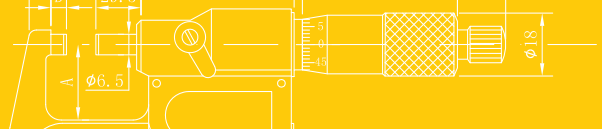
Inch			Metric			Inch		Metric	
Range	Resolution	Accuracy	Range	Resolution	Accuracy	Code No.	Code No.		
Digital models									
.2-1.2"	.00005"	± .0001"	5-30mm	0.001mm	± 0.003mm	207-01-1	207-01-0		
1-2"	.00005"	± .0002"	25-50mm	0.001mm	± 0.003mm	207-02-1	207-02-0		
2-3"	.00005"	± .0002"	50-75mm	0.001mm	± 0.004mm	207-03-1	207-03-0		
3-4"	.00005"	± .0002"	75-100mm	0.001mm	± 0.004mm	207-04-1	207-04-0		
4-5"	.00005"	± .0002"	100-125mm	0.001mm	± 0.005mm	207-05-1	207-05-0		
5-6"	.00005"	± .0002"	125-150mm	0.001mm	± 0.005mm	207-06-1	207-06-0		
6-7"	.00005"	± .0002"	150-175mm	0.001mm	± 0.005mm	207-07-1	207-07-0		
7-8"	.00005"	± .0002"	175-200mm	0.001mm	± 0.005mm	207-08-1	207-08-0		
Mechanical models									
.2-1.2"	.001"	± .0001"	5-30mm	0.01mm	0.005mm	203-01-1	203-01-0		
1.0-2.0"	.001"	± .0002"	25-50mm	0.01mm	0.006mm	203-02-1	203-02-0		
2.0-3.0"	.001"	± .0002"	50-75mm	0.01mm	0.007mm	203-03-1	203-03-0		
3.0-4.0"	.001"	± .0002"	75-100mm	0.01mm	0.008mm	203-04-1	203-04-0		
4.0-5.0"	.001"	± .0002"	100-125mm	0.01mm	0.009mm	203-05-1	203-05-0		
5.0-6.0"	.001"	± .0002"	125-150mm	0.01mm	0.009mm	203-06-1	203-06-0		
6.0-7.0"	.001"	± .0002"	150-175mm	0.01mm	0.010mm	203-07-1	203-07-0		
7.0-8.0"	.001"	± .0002"	175-200mm	0.01mm	0.010mm	203-08-1	203-08-0		



5-30mm



25-50mm

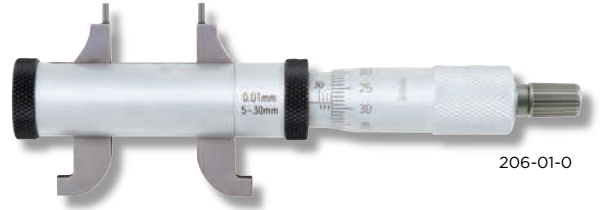


Dual Measurement Inside Micrometers

206 Series

FEATURES

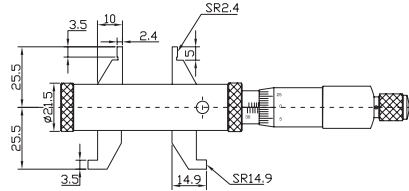
- For all kinds of inside measurements
- Large measuring range with two sides of calipers
- Bi-directional graduation for easy reading in both directions
- Supplied with Setting Ring (Ø1.2" / Ø30mm dia.)



206-01-0

STANDARD ACCESSORIES

- S-wrench, Setting Ring
- Warranty card, Instruction manual, Calibration certificate

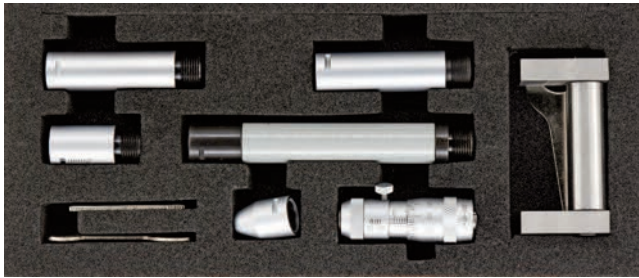


SPECIFICATIONS

Lower Range	Upper Range	Graduation	Accuracy	Code No.
Inch				
.2-1.2"	1.2-2.2"	.001"	.00024"	206-01-1
Metric				
5-30mm	30-55mm	0.01mm	0.006mm	206-01-0

Tubular Inside Micrometers

240 Series



240-01-0

SPECIFICATIONS

- Graduation: .001" / 0.01mm
- Accuracy: Metric (3+n+L / 50) μ 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: Ø15.5mm

STANDARD ACCESSORIES

- S-wrench, Standard caliper gauge, Extension Rod, Micrometer Head
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Range	Extension Rod	Note	Code No.
Inch			
2-12"	.5", 1", 2" (2 pcs), 4"	Includes .50", .001" Mic. Head	240-01-1
2-40"	.5", 1", 2", 4" (2 pcs), 6", 8", 12"	Includes .50", .001" Mic. Head	240-02-1
2-2.5"	-	Replacement Mic Head .001"	169-55-1
Metric			
50-300mm	13, 25, 50 (2 pcs), 100mm	Includes 13mm, 0.01mm Mic. Head	240-01-0
50-1000mm	13, 25, 50, 100 (2 pcs), 150, 200, 300mm	Includes 13mm, 0.01mm Mic. Head	240-02-0
50-1500mm	13, 25, 50, 100 (2 pcs), 150, 200 (2 pcs), 300mm (2 pcs)	Includes 13mm, 0.01mm Mic. Head	240-03-0
50-100mm	13, 25mm	Includes 13mm, 0.01mm Mic. Head	240-11-0
50-500mm	13, 25, 50 (2 pcs), 100, 200mm	Includes 13mm, 0.01mm Mic. Head	240-12-0
50-63mm	-	Replacement 0.01mm Mic. Head	169-55-0



Inside Micrometers - Interchangeable Rod Type

242 Series



242-40-1

FEATURES

- Graduation: .001" / 0.01mm.
- Accuracy: Metric (6+L / 50) mm
Inch [0.0003+0.00005(L / 2)]"
L = Maximum measuring Length (mm) / inch
- Rods marked with its measuring range
- Satin chrome finish throughout
- 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

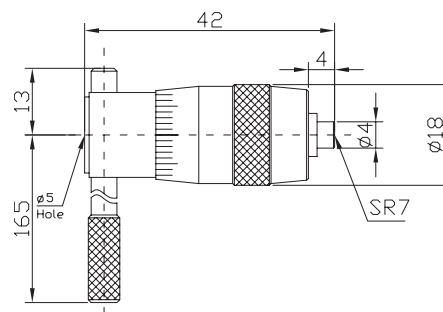
STANDARD ACCESSORIES

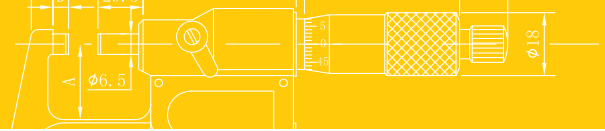
- Micrometer Head, Extension Rod, S-wrench
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Range	Head Travel	Graduation	Spacing Collar	Diameter of Rods	Note	Code No.
Inch						
1-2"	.25"	.001"	.250"	Ø.248"	1" Mic head & 2 Rods	242-02-1
2-8"	.50"	.001"	.500"	Ø.248"	2" Mic head & 6 Rods	242-08-1
2-12"	.50"	.001"	.500"	Ø.248"	2" Mic head & 10 Rods	242-12-1
8-20"	1.00"	.001"	1", 2"	Ø.355"	8" Mic head & 3 Rods	242-20-1
8-40"	1.00"	.001"	1", 2"	Ø.355"	8" Mic head & 8 Rods	242-40-1
Metric						
25-50mm	7.0mm	0.01mm	6.0mm	Ø6.3mm	25mm Mic head & 2 Rods	242-02-0
50-200mm	13mm	0.01mm	12.0mm	Ø6.3mm	50mm Mic head & 6 Rods	242-08-0
50-300mm	13mm	0.01mm	12.0mm	Ø6.3mm	50mm Mic head & 10 Rods	242-12-0
200-500mm	25mm	0.01mm	25mm, 50mm	Ø9mm	200mm Mic head & 3 Rods	242-20-0
200-1000mm	25mm	0.01mm	25mm, 50mm	Ø9mm	200mm Mic head & 8 Rods	242-40-0

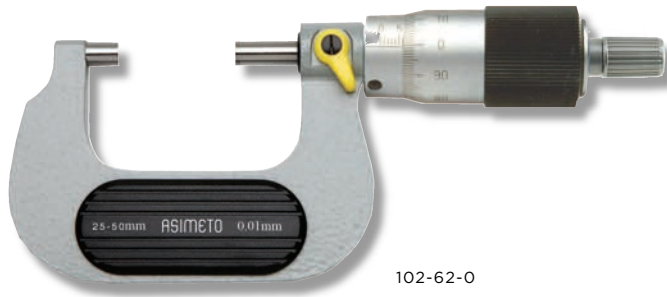
Note: Individual rods are matched with micrometer and should not be interchanged with other sets



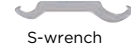


Quick-Setting Outside Micrometers, 1mm Rev

102 Series



102-62-0



S-wrench



Standard

FEATURES

- Graduation: 0.01mm
- Flatness: 0.3µm
- 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
- Ratchet thimble
- Grey painted steel frame

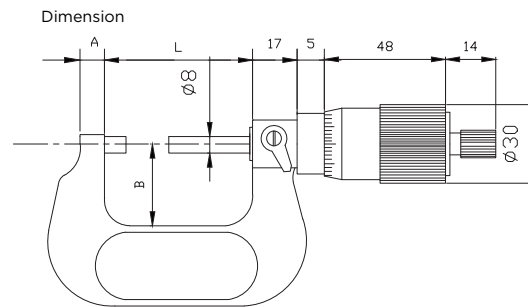
SPECIFICATIONS

Range	Accuracy	Code No.
0-25mm	0.004mm	102-61-0
25-50mm	0.004mm	102-62-0
50-75mm	0.005mm	102-63-0
75-100mm	0.005mm	102-64-0

Range	A	B	L
0-25mm	6mm	24mm	32mm
25-50mm	8mm	32mm	57mm
50-75mm	8mm	45mm	82mm
75-100mm	8mm	57mm	107mm

STANDARD ACCESSORIES

- S-wrench, Standard (over 25mm range)
- Warranty card, Instruction manual, Calibration certificate



Micrometer Stands

109 Series

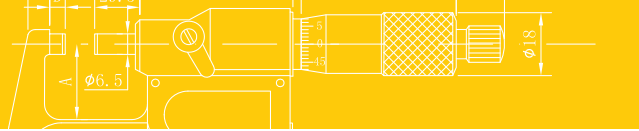
- These stands are designed to allow bench top use with hand micrometers



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



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



Blade Micrometers

117 / 112 Series



117-01-1



112-01-0



S-wrench

Standard

STANDARD ACCESSORIES

- S-wrench, Battery (Digital models), Standard (over 1" / 25mm range)
- Warranty card, Instruction manual, Calibration certificate

FEATURES

- Resolution: Digital reading: .00005" / 0.001mm
Scale on digital models: .0001" / 0.01mm
Scale on mechanical models: .001" / 0.01mm
- Ratchet stop
- For measuring the groove diameter of shafts, keyways, and other hard to reach portions
- Non-rotating spindle
- Carbide tipped measuring faces
- Grey painted steel frame
- Inch / Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On / Off to maximize battery life
- Absolute or incremental measuring modes

SPECIFICATIONS

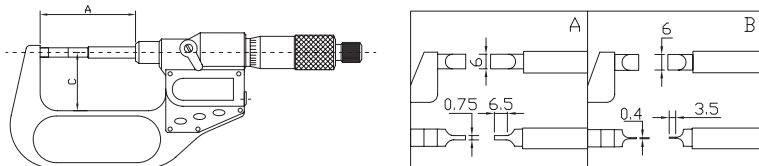
Digital models

Inch	Metric	Inch	Metric	Anvil Type	Inch	Metric
Range	Accuracy	Range	Accuracy		Code No.	Code No.
0-1"	± .0001"	0-25mm	± 0.002mm	A	117-01-1	117-01-0
1-2"	± .0002"	25-50mm	± 0.002mm	A	117-02-1	117-02-0
2-3"	± .0002"	50-75mm	± 0.003mm	A	117-03-1	117-03-0
3-4"	± .0002"	75-100mm	± 0.003mm	A	117-04-1	117-04-0
4-5"	± .0002"	100-125mm	± 0.003mm	A	117-05-1	117-05-0
5-6"	± .0002"	125-150mm	± 0.003mm	A	117-06-1	117-06-0
0-1"	± .0001"	0-25mm	± 0.002mm	B	117-01-3	117-01-2
1-2"	± .0002"	25-50mm	± 0.002mm	B	117-02-3	117-02-2
2-3"	± .0002"	50-75mm	± 0.003mm	B	117-03-3	117-03-2
3-4"	± .0002"	75-100mm	± 0.003mm	B	117-04-3	117-04-2
4-5"	± .0002"	100-125mm	± 0.003mm	B	117-05-3	117-05-2

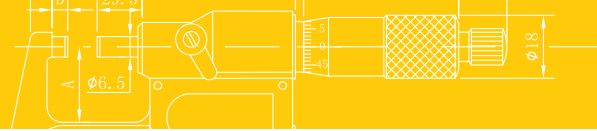
Mechanical models

Inch	Metric	Inch	Metric	Anvil Type	Inch	Metric
Range	Accuracy	Range	Accuracy		Code No.	Code No.
0-1"	± .0001"	0-25mm	0.004mm	A	112-01-1	112-01-0
1-2"	± .0002"	25-50mm	0.004mm	A	112-02-1	112-02-0
2-3"	± .0002"	50-75mm	0.005mm	A	112-03-1	112-03-0
3-4"	± .0002"	75-100mm	0.005mm	A	112-04-1	112-04-0
4-5"	± .0002"	100-125mm	0.006mm	A	112-05-1	112-05-0
5-6"	± .0002"	125-150mm	0.006mm	A	112-06-1	112-06-0
0-1"	± .0001"	0-25mm	0.004mm	B	112-01-3	112-01-2
1-2"	± .0002"	25-50mm	0.004mm	B	112-02-3	112-02-2
2-3"	± .0002"	50-75mm	0.005mm	B	112-03-3	112-03-2
3-4"	± .0002"	75-100mm	0.005mm	B	112-04-3	112-04-2
4-5"	± .0002"	100-125mm	0.006mm	B	112-05-3	112-05-2

Dimension



Range	A	C
Inch/Metric	mm	mm
0-1"/0-25mm	57	32
1-2"/25-50mm	82	44.5
2-3"/50-75mm	107	57
3-4"/75-100mm	132.6	69.5

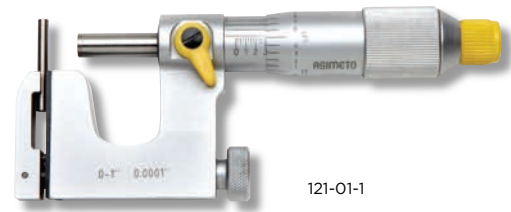


Multi-Anvil Micrometers

121 / 125 Series



125-01-1



121-01-1

STANDARD ACCESSORIES

- Battery (Digital models),
Rod Anvil, Flat Anvil
S-wrench, Standard (25-50mm)
- Warranty card, Instruction manual,
Calibration certificate



FEATURES

- Resolution:
Digital reading: .00005" / 0.001mm
Scale on digital models: .0001" / 0.01mm
Scale on mechanical models: .0001" / 0.01mm
- Ratchet stop for digital models
Ratchet thimble for mechanical models
- Measures tube thickness, shoulder edge distance
rivet head height, with interchangeable anvils
(Flat Anvil, Rod Anvil, V-anvil)
- Carbide tipped measuring faces
- Chrome-plated steel feet frame
- Inch / Metric conversion
- Upon switching on the display will read
the actual absolute measuring position
- Automatic On / Off to maximize battery life
- Absolute or incremental measuring modes
- Protection level IP65

SPECIFICATIONS

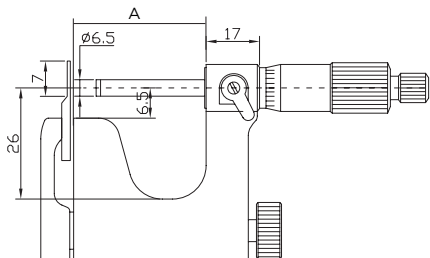
Digital models

Inch	Metric	Inch	Metric
Range	Accuracy	Range	Accuracy
0-1"	± .0001"	0-25mm	± 0.002mm
1-2"	± .0002"	25-50mm	± 0.002mm
		Code No.	Code No.
		125-01-1	125-01-0
		125-02-1	125-02-0

Mechanical models

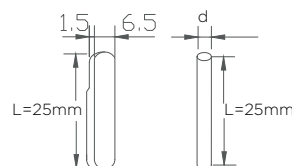
Inch	Metric	Inch	Metric
Range	Accuracy	Range	Accuracy
0-1"	± .0001"	0-25	0.004
1-2"	± .0002"	25-50	0.004
		Code No.	Code No.
		121-01-1	121-01-0
		121-02-1	121-02-0

Dimension



Range	A	d
0-25mm	28.5mm	Ø3mm
25-50mm	53.5mm	Ø5mm

Anvils





Point Micrometers

122 / 126 Series



126-02-1



122-01-1



STANDARD ACCESSORIES

- S-wrench, Battery (Digital models), Standard (over 1" / 25mm range)
- Warranty card, Instruction manual, Calibration certificate

FEATURES

- Resolution: Digital reading: .00005" / 0.001mm
Scale on digital models: .0001" / 0.01mm
Scale on mechanical models: .001" / 0.01mm
- 15 degree and 30 degree measuring points are available
- For measuring the web thickness of drills, small grooves, and other hard to reach dimensions
- Carbide tipped measuring faces
- Grey painted steel frame
- Ratchet stop
- Inch / Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On / Off to maximize battery life
- Absolute or incremental measuring modes
- Protection level IP65

SPECIFICATIONS

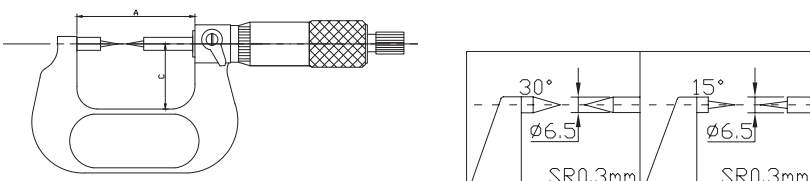
Digital models

Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Anvil Type	Code No.	Code No.	Code No.
0-1"	± .0001"	0-25mm	± 0.002mm	15°	126-01-1	126-01-0	126-01-0
1-2"	± .0002"	25-50mm	± 0.002mm	15°	126-02-1	126-02-0	126-02-0
2-3"	± .0002"	50-75mm	± 0.003mm	15°	126-03-1	126-03-0	126-03-0
3-4"	± .0002"	75-100mm	± 0.003mm	15°	126-04-1	126-04-0	126-04-0
0-1"	± .0001"	0-25mm	± 0.002mm	30°	126-01-3	126-01-2	126-01-2
1-2"	± .0002"	25-50mm	± 0.002mm	30°	126-02-3	126-02-2	126-02-2
2-3"	± .0002"	50-75mm	± 0.003mm	30°	126-03-3	126-03-2	126-03-2
3-4"	± .0002"	75-100mm	± 0.003mm	30°	126-04-3	126-04-2	126-04-2

Mechanical models

Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Anvil Type	Code No.	Code No.	Code No.
0-1"	± .0001"	0-25mm	0.004mm	15°	122-01-1	122-01-0	122-01-0
1-2"	± .0002"	25-50mm	0.004mm	15°	122-02-1	122-02-0	122-02-0
2-3"	± .0002"	50-75mm	0.005mm	15°	122-03-1	122-03-0	122-03-0
3-4"	± .0002"	75-100mm	0.005mm	15°	122-04-1	122-04-0	122-04-0
0-1"	± .0001"	0-25mm	0.004mm	30°	122-01-3	122-01-2	122-01-2
1-2"	± .0002"	25-50mm	0.004mm	30°	122-02-3	122-02-2	122-02-2
2-3"	± .0002"	50-75mm	0.005mm	30°	122-03-3	122-03-2	122-03-2
3-4"	± .0002"	75-100mm	0.005mm	30°	122-04-3	122-04-2	122-04-2

Dimension



Range	Range	A	C
Inch	Metric	mm	mm
0-1"	0-25mm	57	32
1-2"	25-50mm	82	44.5
2-3"	50-75mm	107	57
3-4"	75-100mm	132.6	69.5



Single Point Micrometers

131 / 135 Series



135-01-3



131-01-3



STANDARD ACCESSORIES

- S-wrench, Battery (Digital models), Standard (over 1" / 25mm range)
- Warranty card, Instruction manual, Calibration certificate

FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .0001" / 0.01mm
- Protection level IP65
- For measuring the height of crimp contacts
- Carbide tipped measuring faces
- Grey painted steel frame
- Ratchet stop
- Inch / Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On / Off to maximize battery life
- Absolute or incremental measuring modes

SPECIFICATIONS

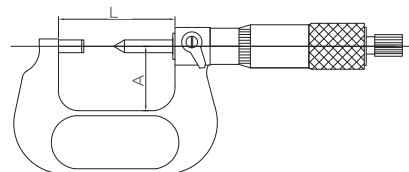
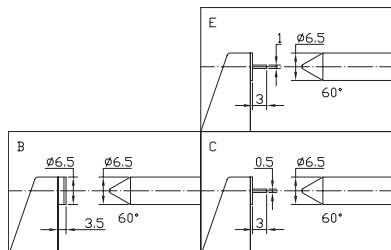
Digital models

Inch		Metric		Anvil Type	Code No.	
Range	Accuracy	Range	Accuracy		Inch	Metric
0-1"	± .0001"	0-25mm	± 0.002mm	B	135-01-1	135-01-0
1-2"	± .0002"	25-50mm	± 0.002mm	B	135-02-1	135-02-0
2-3"	± .0002"	50-75mm	± 0.003mm	B	135-03-1	135-03-0
3-4"	± .0002"	75-100mm	± 0.003mm	B	135-04-1	135-04-0
0-1"	± .0001"	0-25mm	± 0.002mm	C	135-01-3	135-01-2
0-1"	± .0001"	0-25mm	± 0.002mm	E	135-01-5	135-01-4

Mechanical models

Inch		Metric		Anvil Type	Code No.	
Range	Accuracy	Range	Accuracy		Inch	Metric
0-1"	± .0001"	0-25mm	0.004mm	B	131-01-1	131-01-0
1-2"	± .0002"	25-50mm	0.004mm	B	131-02-1	131-02-0
2-3"	± .0002"	50-75mm	0.005mm	B	131-03-1	131-03-0
3-4"	± .0002"	75-100mm	0.005mm	B	131-04-1	131-04-0
0-1"	± .0001"	0-25mm	0.004mm	C	131-01-3	131-01-2
0-1"	± .0001"	0-25mm	0.004mm	E	131-01-5	131-01-4

Dimension



Range	Range	L	A
Inch	Metric	mm	mm
0-1"	0-25mm	34.4	24
1-2"	25-50mm	59.4	32
2-3"	50-75mm	84.8	44.5
3-4"	75-100mm	110.2	57



Spline Micrometers

118 Series



118-02-1



118-61-1



S-wrench

Standard

STANDARD ACCESSORIES

- S-wrench, Battery (Digital models), Standard (over 1" / 25mm range)
- Warranty card, Instruction manual, Calibration certificate

FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .0001" / 0.01mm
- Protection level IP65
- For measuring spline shafts, slots and keyways
- Carbide tipped measuring faces
- Grey painted steel frame
- Ratchet stop
- Anvils A and Anvils B are optional
- Inch / Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On / Off to maximize battery life
- Absolute or incremental measuring modes

SPECIFICATIONS

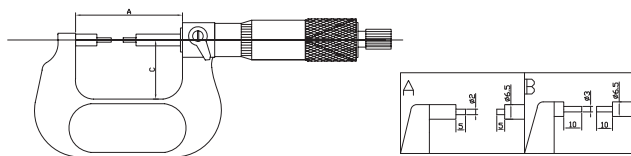
Digital models

Inch		Metric			Inch	Metric
Range	Accuracy	Range	Accuracy	Anvil Type	Code No.	Code No.
0-1"	± .0001"	0-25mm	± 0.002mm	A (Ø2*5)	118-01-1	118-01-0
1-2"	± .0002"	25-50mm	± 0.002mm	A (Ø2*5)	118-02-1	118-02-0
2-3"	± .0002"	50-75mm	± 0.003mm	A (Ø2*5)	118-03-1	118-03-0
3-4"	± .0002"	75-100mm	± 0.003mm	A (Ø2*5)	118-04-1	118-04-0
4-5"	± .0002"	100-125mm	± 0.003mm	A (Ø2*5)	118-05-1	118-05-0
5-6"	± .0002"	125-150mm	± 0.003mm	A (Ø2*5)	118-06-1	118-06-0
0-1"	± .0001"	0-25mm	± 0.002mm	B (Ø3*10)	118-01-3	118-01-2
1-2"	± .0002"	25-50mm	± 0.002mm	B (Ø3*10)	118-02-3	118-02-2
2-3"	± .0002"	50-75mm	± 0.003mm	B (Ø3*10)	118-03-3	118-03-2
3-4"	± .0002"	75-100mm	± 0.003mm	B (Ø3*10)	118-04-3	118-04-2
4-5"	± .0002"	100-125mm	± 0.003mm	B (Ø3*10)	118-05-3	118-05-2
5-6"	± .0002"	125-150mm	± 0.003mm	B (Ø3*10)	118-06-3	118-06-2

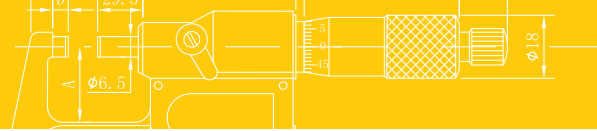
Mechanical models

Inch		Metric			Inch	Metric
Range	Accuracy	Range	Accuracy	Anvil Type	Code No.	Code No.
0-1"	± .0001"	0-25mm	0.004mm	A (Ø2*5)	118-61-1	118-61-0
1-2"	± .0002"	25-50mm	0.004mm	A (Ø2*5)	118-62-1	118-62-0
2-3"	± .0002"	50-75mm	0.005mm	A (Ø2*5)	118-63-1	118-63-0
3-4"	± .0002"	75-100mm	0.005mm	A (Ø2*5)	118-64-1	118-64-0
4-5"	± .0002"	100-125mm	0.006mm	A (Ø2*5)	118-65-1	118-65-0
5-6"	± .0002"	125-150mm	0.006mm	A (Ø2*5)	118-66-1	118-66-0
0-1"	± .0001"	0-25mm	0.004mm	B (Ø3*10)	118-61-3	118-61-2
1-2"	± .0002"	25-50mm	0.004mm	B (Ø3*10)	118-62-3	118-62-2
2-3"	± .0002"	50-75mm	0.005mm	B (Ø3*10)	118-63-3	118-63-2
3-4"	± .0002"	75-100mm	0.005mm	B (Ø3*10)	118-64-3	118-64-2
4-5"	± .0002"	100-125mm	0.006mm	B (Ø3*10)	118-65-3	118-65-2
5-6"	± .0002"	125-150mm	0.006mm	B (Ø3*10)	118-66-3	118-66-2

Dimension



Range	Range	A	C
Inch	Metric	mm	mm
0-1"	0-25mm	57	32
1-2"	25-50mm	82	44.5
2-3"	50-75mm	107	57
3-4"	75-100mm	132.6	69.5



Gear Tooth Micrometers

118 / 119 Series



118-31-9



118-71-9



STANDARD ACCESSORIES

- S-wrench, Battery (Digital models), Standard (over 1" / 25mm range)
- Warranty card, Instruction manual, Calibration certificate

FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .001" / 0.01mm
- Protection level IP65
- 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
- Grey painted steel frame
- Ratchet stop
- Inch / Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On / Off to maximize battery life
- Absolute or incremental measuring modes

SPECIFICATIONS

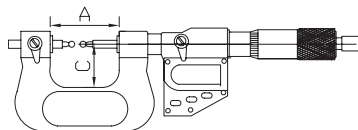
Digital models

Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Code No.	Set Code No.	Code No.	Set Code No.
0-1"	± .0001"	0-25mm	± 0.002mm	118-31-1	118-31-9	118-31-0	118-31-8
1-2"	± .0002"	25-50mm	± 0.002mm	118-32-1	118-32-9	118-32-0	118-32-8
2-3"	± .0002"	50-75mm	± 0.003mm	118-33-1	118-33-9	118-33-0	118-33-8
3-4"	± .0002"	75-100mm	± 0.003mm	118-34-1	118-34-9	118-34-0	118-34-8
4-5"	± .0002"	100-125mm	± 0.003mm	118-35-1	118-35-9	118-35-0	118-35-8
5-6"	± .0002"	125-150mm	± 0.003mm	118-36-1	118-36-9	118-36-0	118-36-8
6-7"	± .0002"	150-175mm	± 0.004mm	118-37-1	118-37-9	118-37-0	118-37-8

Mechanical models

Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Code No.	Set Code No.	Code No.	Set Code No.
0-1"	± .0001"	0-25mm	0.004mm	118-71-1	118-71-9	118-71-0	118-71-8
1-2"	± .0002"	25-50mm	0.004mm	118-72-1	118-72-9	118-72-0	118-72-8
2-3"	± .0002"	50-75mm	0.005mm	118-73-1	118-73-9	118-73-0	118-73-8
3-4"	± .0002"	75-100mm	0.005mm	118-74-1	118-74-9	118-74-0	118-74-8
4-5"	± .0002"	100-125mm	0.006mm	118-75-1	118-75-9	118-75-0	118-75-8
5-6"	± .0002"	125-150mm	0.006mm	118-76-1	118-76-9	118-76-0	118-76-8
6-7"	± .0002"	150-175mm	0.007mm	118-77-1	118-77-9	118-77-0	118-77-8

Dimension



Range	Range	A	C
Inch	Metric	mm	mm
0-1"	0-25mm	67	38
1-2"	25-50mm	92.4	50
2-3"	50-75mm	117.6	62
3-4"	75-100mm	143	70
4-5"	100-125mm	168.2	82
5-6"	125-150mm	192	94.5
6-7"	150-175mm	217	107

Anvils

Ball dia.	Module	Diametral pitch	Code No.
Ø1mm-Ø6.0mm	0.6-3.5	45-7	119-80-0
Ø1mm	0.6-0.65	45	119-81-0
Ø1.5mm	0.9-1.0	28-26	119-82-0
Ø2.0mm	1.25	22	119-83-0
Ø2.5mm	1.5	17	119-84-0
Ø3.0mm	1.75	15	119-85-0
Ø3.5mm	2	13	119-86-0
Ø4.0mm	2.25	11	119-87-0
Ø4.5mm	2.5	10	119-88-0
Ø5.0mm	2.75	9	119-89-0
Ø6.0mm	3.5	7	119-90-0



Disc Micrometers

141 / 145 Series



145-02-1



141-03-1



STANDARD ACCESSORIES

- S-wrench, Battery (Digital models), Standard (over 1" / 25mm range)
- Warranty card, Instruction manual, Calibration certificate

FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .0001" / 0.01mm
- For measuring gears and paper thickness
- Non-rotating spindle
- Grey painted steel frame
- Ratchet stop
- Inch / Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On / Off to maximize battery life
- Absolute or incremental measuring modes

SPECIFICATIONS

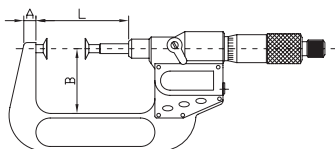
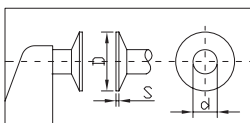
Digital models

Inch		Metric		Inch	Metric
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-1"	± .0001"	0-25mm	± 0.002mm	145-01-1	145-01-0
1-2"	± .0002"	25-50mm	± 0.002mm	145-02-1	145-02-0
2-3"	± .0002"	50-75mm	± 0.003mm	145-03-1	145-03-0
3-4"	± .0002"	75-100mm	± 0.003mm	145-04-1	145-04-0
4-5"	± .0002"	100-125mm	± 0.003mm	145-05-1	145-05-0
5-6"	± .0002"	125-150mm	± 0.003mm	145-06-1	145-06-0
6-7"	± .0002"	150-175mm	± 0.003mm	145-07-1	145-07-0
7-8"	± .0002"	175-200mm	± 0.003mm	145-08-1	145-08-0

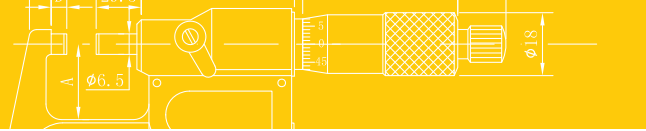
Mechanical models

Inch		Metric		Inch code No.		Metric code No.	
Range	Accuracy	Range	Accuracy	Rotating spindle	Non-rotating spindle	Rotating spindle	Non-rotating spindle
0-1"	± .0001"	0-25mm	0.004mm	141-01-1	141-01-3	141-01-0	141-01-2
1-2"	± .0002"	25-50mm	0.004mm	141-02-1	141-02-3	141-02-0	141-02-2
2-3"	± .0002"	50-75mm	0.005mm	141-03-1	141-03-3	141-03-0	141-03-2
3-4"	± .0002"	75-100mm	0.005mm	141-04-1	141-04-3	141-04-0	141-04-2
4-5"	± .0002"	100-125mm	0.006mm	141-05-1	141-05-3	141-05-0	141-05-2
5-6"	± .0002"	125-150mm	0.006mm	141-06-1	141-06-3	141-06-0	141-06-2
6-7"	± .0002"	150-175mm	0.007mm	141-07-1	141-07-3	141-07-0	141-07-2
7-8"	± .0002"	175-200mm	0.007mm	141-08-1	141-08-3	141-08-0	141-08-2

Dimension



Range	A	B	L	D	S	d
Inch/Metric	mm	mm	mm	mm	mm	mm
0-1"/0-25mm	8	32	43	20	0.7	8
1-2"/25-50mm	8	44.5	68	20	0.7	8
2-3"/50-75mm	8	57	93	20	0.7	8
3-4"/75-100mm	10	70	118.5	20	0.7	8
4-5"/100-125mm	10	82	144	30	0.9	12
5-6"/125-150mm	12	94.5	169.5	30	0.9	12
6-7"/150-175mm	12	107	194.8	30	0.9	12



Jaw Type Micrometers

122 / 126 Series



126-52-1



122-51-1



S-wrench

Standard

STANDARD ACCESSORIES

- S-wrench, Battery (Digital models), Standard (over 1" / 25mm range)
- Warranty card, Instruction manual, Calibration certificate

FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .0001" / 0.01mm
- For measuring gears and paper thickness
- Non-rotating spindle
- Jaw type measuring faces
- Grey painted steel frame
- Ratchet stop
- Inch / Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On / Off to maximize battery life
- Absolute or incremental measuring modes

SPECIFICATIONS

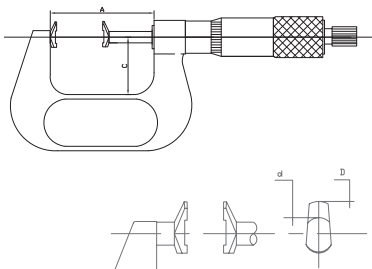
Digital models

Inch	Metric	Inch	Metric	Inch	Metric
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-1"	± .0001"	0-25mm	± 0.002mm	126-51-1	126-51-0
1-2"	± .0002"	25-50mm	± 0.002mm	126-52-1	126-52-0
2-3"	± .0002"	50-75mm	± 0.003mm	126-53-1	126-53-0
3-4"	± .0002"	75-100mm	± 0.003mm	126-54-1	126-54-0
4-5"	± .0002"	100-125mm	± 0.003mm	126-55-1	126-55-0
5-6"	± .0002"	125-150mm	± 0.003mm	126-56-1	126-56-0
6-7"	± .0002"	150-175mm	± 0.004mm	126-57-1	126-57-0
7-8"	± .0002"	175-200mm	± 0.004mm	126-58-1	126-58-0

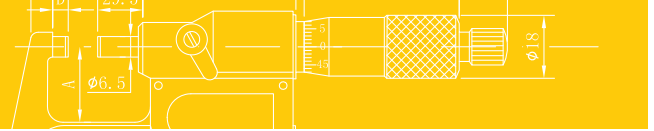
Mechanical models

Inch	Metric	Inch	Metric	Inch	Metric
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-1"	± .0001"	0-25mm	0.004mm	122-51-1	122-51-0
1-2"	± .0002"	25-50mm	0.004mm	122-52-1	122-52-0
2-3"	± .0002"	50-75mm	0.005mm	122-53-1	122-53-0
3-4"	± .0002"	75-100mm	0.005mm	122-54-1	122-54-0
4-5"	± .0002"	100-125mm	0.006mm	122-55-1	122-55-0
5-6"	± .0002"	125-150mm	0.006mm	122-56-1	122-56-0
6-7"	± .0003"	150-175mm	0.007mm	122-57-1	122-57-0
7-8"	± .0003"	175-200mm	0.007mm	122-58-1	122-58-0

Dimension



Range	A	C	D	d
Inch/Metric	mm	mm	mm	mm
0-1"/0-25mm	34.4	24	R10	Ø8
1-2"/25-50mm	59.4	32	R10	Ø8
2-3"/50-75mm	84.8	44.5	R10	Ø8
3-4"/75-100mm	110.2	57	R10	Ø8
4-5"/100-125mm	137.6	69.5	R15	Ø12
5-6"/125-150mm	163	82	R15	Ø12
6-7"/150-175mm	188.4	94.5	R15	Ø12
7-8"/175-200mm	213.8	107	R15	Ø12



Universal Micrometers

142 / 146 Series



146-01-0



Anvils



142-01-1



S-wrench

Standard

STANDARD ACCESSORIES

- S-wrench, Battery (Digital models), 7 pairs Anvils, Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate

FEATURES

- Resolution: Digital reading: .00005" / 0.001mm Scale on digital models: .0001" / 0.01mm Scale on mechanical models: .001" / 0.01mm
- Protection level IP65
- With 7 pairs of interchangeable anvils, For a wide range of applications
- Grey painted steel frame
- Ratchet stop
- Non-rotating spindle
- Inch / Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On / Off to maximize battery life
- Absolute or incremental measuring modes

SPECIFICATIONS

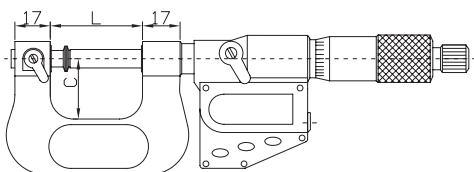
Digital models

Inch Range	Accuracy	Metric Range	Accuracy	Inch Code No.	Metric Code No.
0-1"	± .0001"	0-25mm	± 0.002mm	146-01-1	146-01-0
1-2"	± .0002"	25-50mm	± 0.002mm	146-02-1	146-02-0
2-3"	± .0002"	50-75mm	± 0.003mm	146-03-1	146-03-0
3-4"	± .0002"	75-100mm	± 0.003mm	146-04-1	146-04-0
4-5"	± .0002"	100-125mm	± 0.003mm	146-05-1	146-05-0
5-6"	± .0002"	125-150mm	± 0.003mm	146-06-1	146-06-0
6-7"	± .0002"	150-175mm	± 0.004mm	146-07-1	146-07-0
7-8"	± .0002"	175-200mm	± 0.004mm	146-08-1	146-08-0

Mechanical models

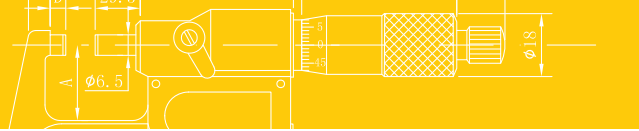
Inch Range	Accuracy	Metric Range	Accuracy	Inch Code No.	Metric Code No.
0-1"	± .0001"	0-25mm	0.004mm	142-01-1	142-01-0
1-2"	± .0002"	25-50mm	0.004mm	142-02-1	142-02-0
2-3"	± .0002"	50-75mm	0.005mm	142-03-1	142-03-0
3-4"	± .0002"	75-100mm	0.005mm	142-04-1	142-04-0
4-5"	± .0002"	100-125mm	0.006mm	142-05-1	142-05-0
5-6"	± .0002"	125-150mm	0.006mm	142-06-1	142-06-0
6-7"	± .0002"	150-175mm	0.007mm	142-07-1	142-07-0
7-8"	± .0002"	175-200mm	0.007mm	142-08-1	142-08-0

Dimension



Range	C	L
Inch/Metric	mm	mm
0-1"/0-25mm	26	42
1-2"/25-50mm	38	67
2-3"/50-75mm	50	92
3-4"/75-100mm	62	118
4-5"/100-125mm	70	143
5-6"/125-150mm	82	168
6-7"/150-175mm	95	192
7-8"/175-200mm	107	217

Anvils	Type
Flat	
Spherical	
Blade	
Point	
Spline	
Disc	
Knife-edge	



V-Anvil Micrometers

151 / 155 Series



155-01-1



151-01-5



S-wrench

Standard

STANDARD ACCESSORIES

- S-wrench, Battery (Digital models), Standard
- Warranty card, Instruction manual, Calibration certificate

FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .001" / 0.01mm
- Protection level IP65
- For measuring the outside diameter of cutting tools such as taps, reamers and end mills
- Carbide tipped measuring faces
- Grey painted steel frame
- Ratchet stop
- Inch / Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On / Off to maximize battery life
- Absolute or incremental measuring modes

SPECIFICATIONS

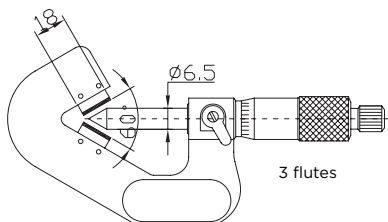
Digital models

Inch	Metric	Inch	Metric
Range	Accuracy	Range	Accuracy
3 flutes			
.04-.6"	± .0001"	1-15mm	± 0.002mm
.2-.8"	± .0001"	5-20mm	± 0.002mm
.8-1.4"	± .0002"	20-35mm	± 0.003mm
5 flutes			
.2-1.0"	± .0001"	5-25mm	± 0.002mm
1.0-1.8"	± .0002"	25-45mm	± 0.003mm

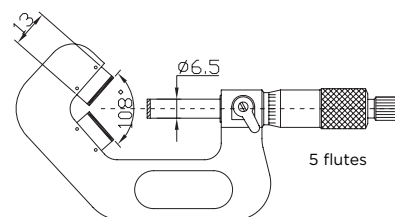
Mechanical models

Inch	Metric	Inch	Metric
Range	Accuracy	Range	Accuracy
3 flutes			
.04-.6"	± .0001"	1-15mm	0.004mm
.2-.8"	± .0001"	5-20mm	0.004mm
.8-1.4"	± .0002"	20-35mm	0.004mm
5 flutes			
.2-1.0"	± .0001"	5-25mm	0.004mm
1.0-1.8"	± .0002"	25-45mm	0.004mm

Dimension



3 flutes



5 flutes

Tube Micrometers

143 / 147 Series



147-01-3



143-01-3



S-wrench

Standard

STANDARD ACCESSORIES

- S-wrench, Battery (Digital models), Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate

FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .0001" / 0.01mm
- Protection level IP65
- For measuring wall thickness of various tubes
- Carbide tipped measuring faces
- Grey painted steel frame
- Ratchet stop
- Anvils J and Anvils K are optional
- Inch / Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On / Off to maximize battery life
- Absolute or incremental measuring modes

SPECIFICATIONS

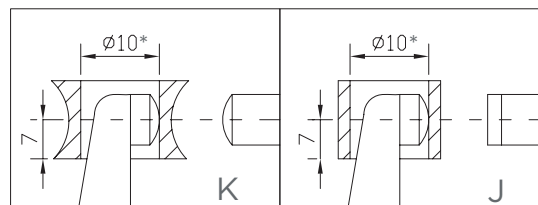
Digital models

Inch		Metric			Inch	Metric
Range	Accuracy	Range	Accuracy	Anvils	Code No.	Code No.
0-1"	± .0001"	0-25mm	± 0.002mm	J	147-01-1	147-01-0
1-2"	± .0002"	25-50mm	± 0.002mm	J	147-02-1	147-02-0
2-3"	± .0002"	50-75mm	± 0.003mm	J	147-03-1	147-03-0
3-4"	± .0002"	75-100mm	± 0.003mm	J	147-04-1	147-04-0
0-1"	± .0001"	0-25mm	± 0.002mm	K	147-01-3	147-01-2
1-2"	± .0002"	25-50mm	± 0.002mm	K	147-02-3	147-02-2
2-3"	± .0002"	50-75mm	± 0.003mm	K	147-03-3	147-03-2
3-4"	± .0002"	75-100mm	± 0.003mm	K	147-04-3	147-04-2

Mechanical models

Inch		Metric			Inch	Metric
Range	Accuracy	Range	Accuracy	Anvils	Code No.	Code No.
0-1"	± .0001"	0-25mm	0.004mm	J	143-01-1	143-01-0
1-2"	± .0002"	25-50mm	0.004mm	J	143-02-1	143-02-0
2-3"	± .0002"	50-75mm	0.005mm	J	143-03-1	143-03-0
3-4"	± .0002"	75-100mm	0.005mm	J	143-04-1	143-04-0
0-1"	± .0001"	0-25mm	0.004mm	K	143-01-3	143-01-2
1-2"	± .0002"	25-50mm	0.004mm	K	143-02-3	143-02-2
2-3"	± .0002"	50-75mm	0.005mm	K	143-03-3	143-03-2
3-4"	± .0002"	75-100mm	0.005mm	K	143-04-3	143-04-2

Dimension



* Min dimension of measured diameter

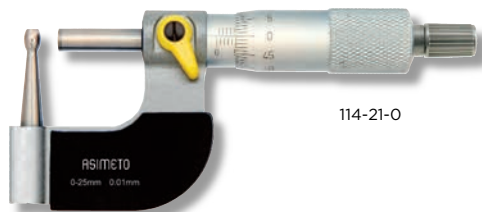


Tube Micrometers

113 / 114 Series



113-01-1



114-21-0



S-wrench

Standard

STANDARD ACCESSORIES

- S-wrench, Battery (Digital models), Standard (25-50mm range)
- Warranty card, Instruction manual, Calibration certificate

FEATURES

- Resolution: Digital reading: .00005" / 0.001mm
Scale on digital models: .0001" / 0.01mm
Scale on mechanical models: .0001" / 0.01mm
- Protection level IP65
- For measuring wall thickness of various tubes
- Carbide tipped measuring faces
- Grey painted steel frame
- Ratchet stop
- Six Anvils are optional
- Inch / Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On / Off to maximize battery life
- Absolute or incremental measuring modes

SPECIFICATIONS

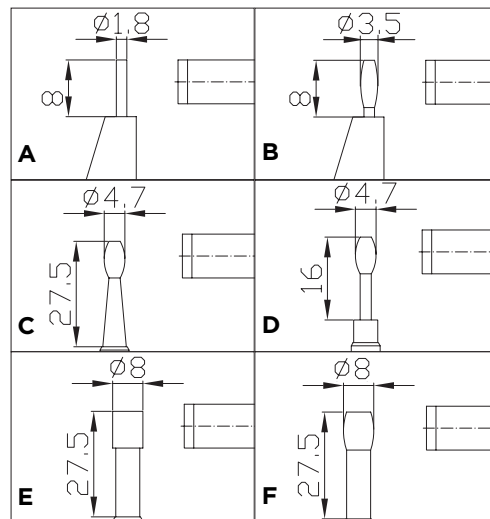
Digital models

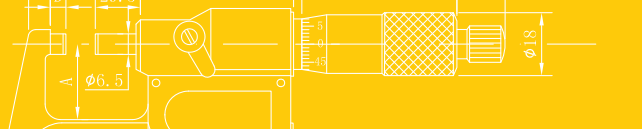
Inch	Accuracy	Metric	Accuracy	Anvils	Inch	Metric
Range	Accuracy	Range	Accuracy		Code No.	Code No.
0-1"	± .0001"	0-25mm	± 0.003mm	A	113-01-1	113-01-0
1-2"	± .0002"	25-50mm	± 0.003mm	A	113-02-1	113-02-0
0-1"	± .0001"	0-25mm	± 0.003mm	C	113-21-1	113-21-0
1-2"	± .0002"	25-50mm	± 0.003mm	C	113-22-1	113-22-0
0-1"	± .0001"	0-25mm	± 0.003mm	E	113-41-1	113-41-0
1-2"	± .0002"	25-50mm	± 0.003mm	E	113-42-1	113-42-0
0-1"	± .0001"	0-25mm	± 0.003mm	B	113-11-1	113-11-0
1-2"	± .0002"	25-50mm	± 0.003mm	B	113-12-1	113-12-0
0-1"	± .0001"	0-25mm	± 0.003mm	D	113-31-1	113-31-0
1-2"	± .0002"	25-50mm	± 0.003mm	D	113-32-1	113-32-0
0-1"	± .0001"	0-25mm	± 0.003mm	F	113-51-1	113-51-0
1-2"	± .0002"	25-50mm	± 0.003mm	F	113-52-1	113-52-0

Mechanical models

Inch	Accuracy	Metric	Accuracy	Anvils	Inch	Metric
Range	Accuracy	Range	Accuracy		Code No.	Code No.
0-1"	± .0001"	0-25mm	0.004mm	A	114-01-1	114-01-0
1-2"	± .0002"	25-50mm	0.004mm	A	114-02-1	114-02-0
0-1"	± .0001"	0-25mm	0.004mm	C	114-21-1	114-21-0
1-2"	± .0002"	25-50mm	0.004mm	C	114-22-1	114-22-0
0-1"	± .0001"	0-25mm	0.004mm	E	114-41-1	114-41-0
1-2"	± .0002"	25-50mm	0.004mm	E	114-42-1	114-42-0
0-1"	± .0001"	0-25mm	0.004mm	B	114-11-1	114-11-0
1-2"	± .0002"	25-50mm	0.004mm	B	114-12-1	114-12-0
0-1"	± .0001"	0-25mm	0.004mm	D	114-31-1	114-31-0
1-2"	± .0002"	25-50mm	0.004mm	D	114-32-1	114-32-0
0-1"	± .0001"	0-25mm	0.004mm	F	114-51-1	114-51-0
1-2"	± .0002"	25-50mm	0.004mm	F	114-52-1	114-52-0

Dimension





Deep Throat Micrometers

150 / 157 Series



157-51-1



150-51-0



S-wrench

Standard

STANDARD ACCESSORIES

- S-wrench, Battery (Digital models), Standard (25-50mm range)
- Warranty card, Instruction manual, Calibration certificate

FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .0001" / 0.01mm
- Protection level IP65
- For measuring thickness of sheet metal, Paper and sheet plastic
- Carbide tipped measuring faces
- Grey painted steel frame
- Ratchet stop
- Three Anvils are optional
- Inch / Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On / Off to maximize battery life
- Absolute or incremental measuring modes

SPECIFICATIONS

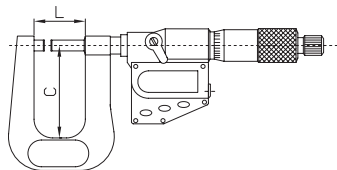
Digital models

Throat depth	Inch		Metric		Inch Code No.			Metric Code No.		
	Range	Accuracy	Range	Accuracy	Type A	Type B	Type C	Type A	Type B	Type C
50mm	0-1"	± .0002"	0-25mm	± 0.002mm	157-01-1	157-31-1	157-51-1	157-01-0	157-31-0	157-51-0
50mm	1-2"	± .0002"	25-50mm	± 0.002mm	157-02-1	157-32-1	157-52-1	157-02-0	157-32-0	157-52-0
100mm	0-1"	± .0002"	0-25mm	± 0.003mm	157-01-3	157-31-3	157-51-3	157-01-2	157-31-2	157-51-2
100mm	1-2"	± .0002"	25-50mm	± 0.003mm	157-02-3	157-32-3	157-52-3	157-02-2	157-32-2	157-52-2
150mm	0-1"	± .0003"	0-25mm	± 0.003mm	157-01-5	157-31-5	157-51-5	157-01-4	157-31-4	157-51-4
150mm	1-2"	± .0003"	25-50mm	± 0.003mm	157-02-5	157-32-5	157-52-5	157-02-4	157-32-4	157-52-4
300mm	0-1"	± .0003"	0-25mm	± 0.004mm	157-01-7	157-31-7	-	157-01-6	157-31-6	-
300mm	1-2"	± .0003"	25-50mm	± 0.004mm	157-02-7	157-32-7	-	157-02-6	157-32-6	-

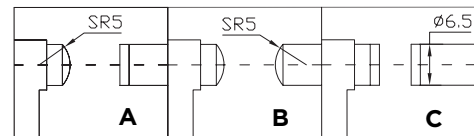
Mechanical models

Throat depth	Inch		Metric		Inch Code No.			Metric Code No.		
	Range	Accuracy	Range	Accuracy	Type A	Type B	Type C	Type A	Type B	Type C
50mm	0-1"	± .0002"	0-25mm	0.004mm	150-01-1	150-31-1	150-51-1	150-01-0	150-31-0	150-51-0
50mm	1-2"	± .0002"	25-50mm	0.004mm	150-02-1	150-32-1	150-52-1	150-02-0	150-32-0	150-52-0
100mm	0-1"	± .0002"	0-25mm	0.005mm	150-01-3	150-31-3	150-51-3	150-01-2	150-31-2	150-51-2
100mm	1-2"	± .0002"	25-50mm	0.005mm	150-02-3	150-32-3	150-52-3	150-02-2	150-32-2	150-52-2
150mm	0-1"	± .0003"	0-25mm	0.006mm	150-01-5	150-31-5	150-51-5	150-01-4	150-31-4	150-51-4
150mm	1-2"	± .0003"	25-50mm	0.006mm	150-02-5	150-32-5	150-52-5	150-02-4	150-32-4	150-52-4
300mm	0-1"	± .0003"	0-25mm	0.007mm	150-01-7	150-31-7	-	150-01-6	150-31-6	-
300mm	1-2"	± .0003"	25-50mm	0.007mm	150-02-7	150-32-7	-	150-02-6	150-32-6	-

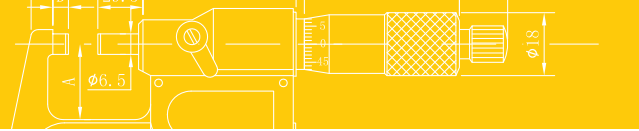
Dimension



Anvils



Throat depth	Range	L	C	Range	L	C
mm	Inch/Metric	mm	mm	Inch/Metric	mm	mm
50	0-1"/0-25mm	32	55	1-2"/25-50mm	57	55
100	0-1"/0-25mm	32	105	1-2"/25-50mm	57	105
200	0-1"/0-25mm	32	155	1-2"/25-50mm	57	155
300	0-1"/0-25mm	32	310	1-2"/25-50mm	57	310



Limit Micrometers

133 Series



133-31-1

FEATURES

- Graduation: .0001" / 0.002mm
- Grey painted steel frame
- Carbide tipped measuring faces
- Can be used as a GO/NOGO gauge by setting the upper and lower limits

STANDARD ACCESSORIES

- S-wrench, Standard (25-50mm range)
- Warranty card, Instruction manual, Calibration certificate



S-wrench

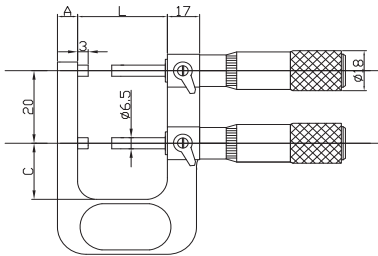


Standard

SPECIFICATIONS

Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Code No.	Code No.	Code No.	Code No.
0-1"	±.0001"	0-25mm	0.003mm	133-31-1	133-31-0		
1-2"	±.0002"	25-50mm	0.003mm	133-32-1	133-32-0		

Dimension



Range	A	L	C
Inch/Metric	mm	mm	mm
0-1"/0-25mm	12	32	24
1-2"/25-50mm	15	57	32

Wire Micrometers

161 Series



161-01-0



S-wrench

FEATURES

- Graduation: .001" / 0.01mm
- Chrome-plated steel feet Frame
- Carbide tipped measuring faces
- For measuring the diameter of wire and small spheres
- Ratchet stop

STANDARD ACCESSORIES

- S-wrench
- Warranty card, Calibration certificate

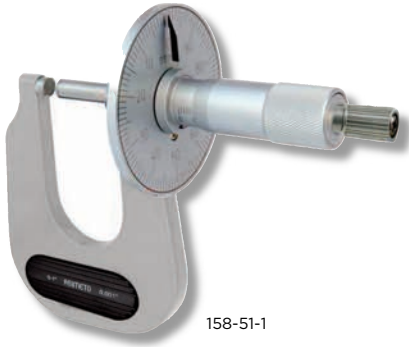
SPECIFICATIONS

Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Code No.	Code No.	Code No.	Code No.
0-.4"	±.0001"	0-10mm	0.004mm	161-01-1	161-01-0		



Sheet Metal Micrometers

158 Series



158-51-1

FEATURES

- Graduation: .001" / 0.01mm
- Grey painted steel frame
- Carbide tipped measuring faces
- The dial reading allows for quick reading of sheet metal thickness
- Ratchet stop

STANDARD ACCESSORIES

- S-wrench
- Warranty card, Instruction manual, Calibration certificate

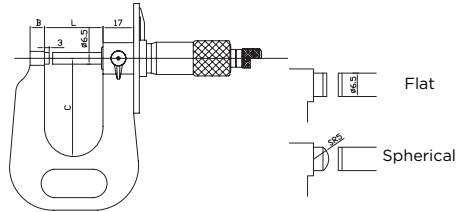


S-wrench

SPECIFICATIONS

Inch		Metric		Measuring Faces	Inch		Metric	
Range	Accuracy	Range	Accuracy		Code No.	Code No.		
0-.6"	± .0001"	0-15mm	0.004mm	Flat	158-51-1	158-51-0		
0-1"	± .0002"	0-25mm	0.004mm	Flat	158-52-1	158-52-0		
1-2"	± .0002"	0-50mm	0.005mm	Flat	158-53-1	158-53-0		
0-.6"	± .0001"	0-15mm	0.004mm	Spherical	158-51-3	158-51-2		
0-1"	± .0002"	0-25mm	0.004mm	Spherical	158-52-3	158-52-2		
0-2"	± .0002"	0-50mm	0.005mm	Spherical	158-53-3	158-53-2		

Dimension



Range	L	B	C
Inch/Metric	mm	mm	mm
0-0.6"/0-15mm	22	8	55
0-1"/0-25mm	32	8	55
0-2"/0-50mm	57	12	105

Hub Micrometers

160 Series



160-01-0

FEATURES

- Graduation: .0001" / 0.01mm
- Carbide tipped measuring faces
- Measures the hub thickness and shoulders inside the bore
- Ratchet stop

STANDARD ACCESSORIES

- S-wrench, Standard (over 1"/25mm range)
- Warranty card, Calibration certificate



S-wrench



Standard

SPECIFICATIONS

Inch		Metric		Code No.	Inch		Metric	
Range	Accuracy	Range	Accuracy		Code No.	Code No.		
0-1"	± .0001"	0-25mm	0.004mm	160-01-1	160-01-0			
1-2"	± .0002"	25-50mm	0.004mm	160-02-1	160-02-0			
2-3"	± .0002"	50-75mm	0.005mm	160-03-1	160-03-0			
3-4"	± .0002"	75-100mm	0.005mm	160-04-1	160-04-0			



Groove Micrometers

163 Series



163-01-0



163-02-2



163-61-0



163-62-2

FEATURES

- Graduation: .001" / 0.01mm
- Parallelism: .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

STANDARD ACCESSORIES

- S-wrench
- Warranty card, Instruction manual, Calibration certificate

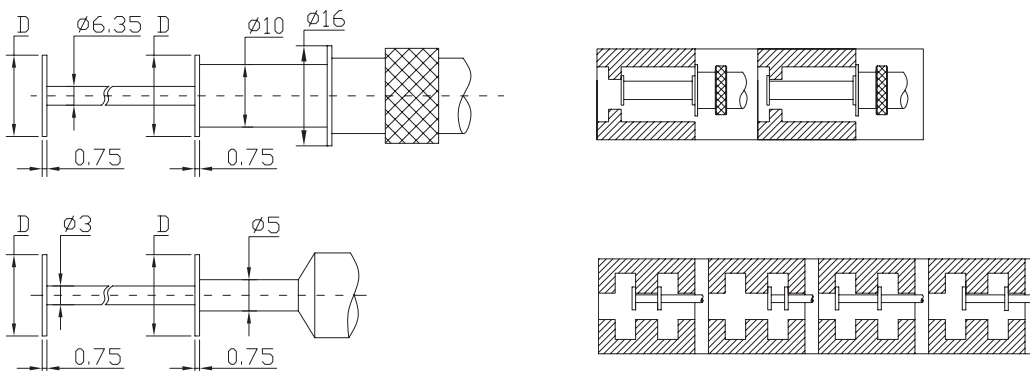


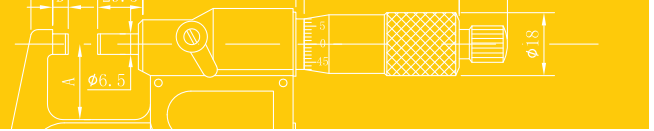
S-wrench

SPECIFICATIONS

	Inch			Metric			Inch	Metric
Flange Diameter	Range Outside	Range Inside	Accuracy	Range outside	Range inside	Accuracy	Code No.	Code No.
Without measuring force								
6.5mm	0-1"	.06-1.05"	± .001"	0-25mm	1.6-26.5mm	0.01mm	163-01-1	163-01-0
13mm	0-1"	.06-1.05"	± .001"	0-25mm	1.6-26.5mm	0.01mm	163-01-3	163-01-2
13mm	1-2"	1.05-2.05"	± .001"	25-50mm	26.5-51.5mm	0.01mm	163-02-3	163-02-2
13mm	2-3"	2.05-3.05"	± .001"	50-75mm	51.5-76.5mm	0.01mm	163-03-3	163-03-2
13mm	3-4"	3.05-4.05"	± .001"	75-100mm	76.5-101.5mm	0.01mm	163-04-3	163-04-2
Two-directional measuring force								
6.5mm	0-1"	.06-1.05"	± .001"	0-25mm	1.6-26.5mm	0.01mm	163-61-1	163-61-0
13mm	0-1"	.06-1.05"	± .001"	0-25mm	1.6-26.5mm	0.01mm	163-61-3	163-61-2
13mm	1-2"	1.05-2.05"	± .001"	25-50mm	26.5-51.5mm	0.01mm	163-62-3	163-62-2
13mm	2-3"	2.05-3.05"	± .001"	50-75mm	51.5-76.5mm	0.01mm	163-63-3	163-63-2
13mm	3-4"	3.05-4.05"	± .001"	75-100mm	76.5-101.5mm	0.01mm	163-64-3	163-64-2

Dimension





Snap Gauges

181 Series



181-01-0

FEATURES

- Grey painted steel frame
- Carbide tipped measuring faces
- Dial gauge is not included and is optional, refer to 422-21-1 or 422-21-2
(The measuring resolution is indicative of the dial gauge)
- 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

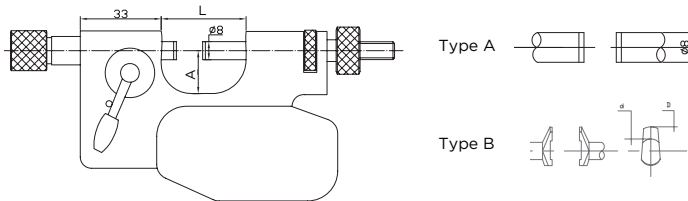
STANDARD ACCESSORIES

- Warranty card, Instruction manual

SPECIFICATIONS

Type A		Inch	Metric	Type B		Inch	Metric
Range	Range	Code No.	Code No.	Range	Range	Code No.	Code No.
0-1"	0-25mm	181-01-1	181-01-0	0-1.5"	0-40mm	181-01-3	181-01-2
0-2"	0-50mm	181-02-1	181-02-0	1.5-3.5"	40-90mm	181-02-3	181-02-2
2-4"	50-100mm	181-04-1	181-04-0	3.5-5.5"	90-140mm	181-04-3	181-04-2
4-6"	100-150mm	181-06-1	181-06-0	5.5-7.5"	140-190mm	181-06-3	181-06-2
6-8"	150-200mm	181-08-1	181-08-0				

Dimension



Range	L	A
mm	mm	mm
0-25	34	18
0-50	62	32
50-100	112	62
100-150	162	85
150-200	212	110

Snap Gauges

182 Series



182-01-1

FEATURES

- Grey painted steel frame
- Dial gauge is not included and is optional (The measuring resolution is indicative of the dial gauge)
Refer to 405-95-4 or 405-95-5
- 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

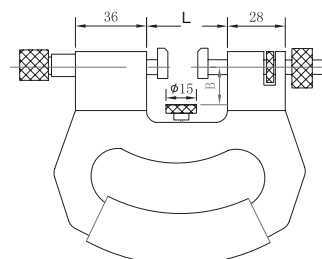
STANDARD ACCESSORIES

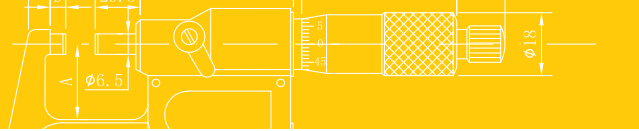
- Warranty card, Instruction manual

SPECIFICATIONS

Inch	Metric			Inch	Metric
Range	Range	L	B	Code No.	Code No.
0-1"	0-25mm	42mm	20mm	182-01-1	182-01-0
0-2"	25-50mm	69mm	32.5mm	182-02-1	182-02-0
2-3"	50-75mm	94mm	45mm	182-03-1	182-03-0
3-4"	75-100mm	119mm	57.5mm	182-04-1	182-04-0
4-5"	100-125mm	144mm	70mm	182-05-1	182-05-0
5-6"	125-150mm	169mm	82.5mm	182-06-1	182-06-0
6-7"	150-175mm	194mm	95mm	182-07-1	182-07-0
7-8"	175-200mm	219mm	107.5mm	182-08-1	182-08-0
8-9"	200-225mm	244mm	120mm	182-09-1	182-09-0
9-10"	225-250mm	269mm	132.5mm	182-10-1	182-10-0
10-11"	250-275mm	294mm	145mm	182-11-1	182-11-0
11-12"	275-300mm	319mm	157.5mm	182-12-1	182-12-0

Dimension





Can Seam Micrometers

162 Series



162-01-0



162-01-2



162-01-4

FEATURES

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

STANDARD ACCESSORIES

- S-wrench
- Warranty card, Calibration certificate



S-wrench

SPECIFICATIONS

Inch	Metric			Inch Code No.			Metric Code No.		
Range	Accuracy	Range	Accuracy	Steel Cans	Aluminum Cans	Aerosol Cans	Steel Cans	Aluminum Cans	Aerosol Cans
0-.6"	.0001"	0-13mm	0.004mm	162-01-1	162-01-3	162-01-5	162-01-0	162-01-2	162-01-4

Digital Micrometer Heads

165 Series



165-01-1

STANDARD ACCESSORIES

- S-wrench, Battery
- Warranty card, Instruction manual, Calibration certificate



S-wrench

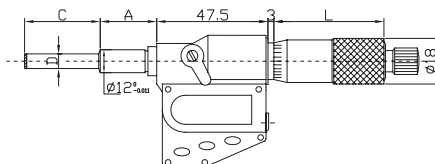
FEATURES

- Resolution:
 - Digital: .00005" / 0.001mm
 - Scale: .0001" / 0.01mm
- Protection level IP65
- Inch/Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Extra large LCD readout
- Absolute or incremental measuring modes
- Carbide tipped measuring faces
- Ratchet stop

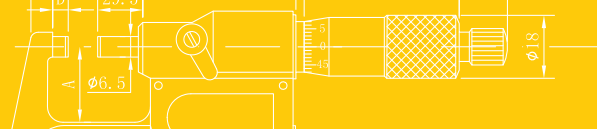
SPECIFICATIONS

Inch		Metric				Inch	Metric
Range	Accuracy	Range	Accuracy	Measuring face	Clamp Nut	Code No.	Code No.
0-1"	± .0001"	0-25mm	±0.002mm	Flat & Carbide tipped	w/o	165-01-1	165-01-0
0-1"	± .0001"	0-25mm	±0.002mm	Spherical	w/o	165-01-3	165-01-2
0-1"	± .0001"	0-25mm	±0.002mm	With non-rotating device	w/o	165-01-5	165-01-4
0-1"	± .0001"	0-25mm	±0.002mm	Flat & Carbide tipped	with	165-61-1	165-61-0
0-1"	± .0001"	0-25mm	±0.002mm	Spherical	with	165-61-3	165-61-2
0-1"	± .0001"	0-25mm	±0.002mm	With non-rotating device	with	165-61-5	165-61-4
0-2"	± .0002"	0-50mm	±0.002mm	Flat & Carbide tipped	w/o	165-02-1	165-02-0
0-2"	± .0002"	0-50mm	±0.002mm	Spherical	w/o	165-02-3	165-02-2

Dimension



Range	D	A	C	L
0-1"/0-25mm	Ø6.5mm	17.5mm	28.5mm	47mm
0-1"/0-50mm	Ø8mm	35.5mm	53mm	71.5mm



Micrometer Heads

169 Series



169-05-7



169-05-0

FEATURES

- Satin chrome finish
- Ratchet stop for 0-25mm range

STANDARD ACCESSORIES

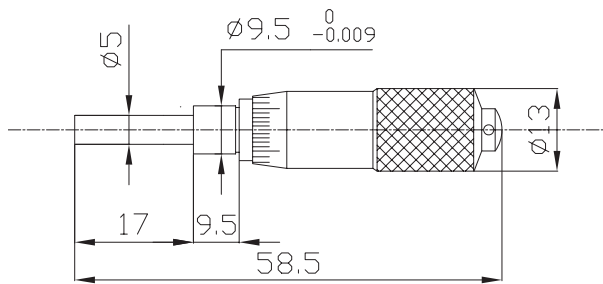
- S-wrench
- Warranty card, Instruction manual
- Calibration certificate

SPECIFICATIONS

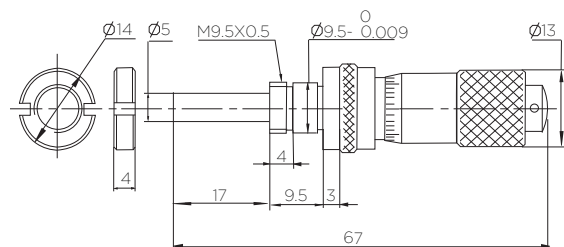
Inch				Metric						Inch		Metric	
Range	Accuracy	Graduation	Spindle Dia.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut	Code No.	Code No.	
0-.5"	± .0001"	.001"	Ø0.197"	0-13mm	0.004mm	0.01mm	Ø5mm	w/o	Flat	w/o	169-05-1	169-05-0	
0-.5"	± .0001"	.001"	Ø0.197"	0-13mm	0.004mm	0.01mm	Ø5mm	with	Flat	with	169-05-3	169-05-2	
0-.5"	± .0001"	.001"	Ø0.197"	0-13mm	0.004mm	0.01mm	Ø5mm	w/o	Spherical	w/o	169-05-5	169-05-4	
0-.5"	± .0001"	.001"	Ø0.197"	0-13mm	0.004mm	0.01mm	Ø5mm	with	Spherical	with	169-05-7	169-05-6	
0-.5"	± .0001"	.001"	Ø0.197"	0-13mm	0.004mm	0.01mm	Ø5mm	w/o	Flat	with	169-05-9	169-05-8	
0-1"	± .0001"	.001"	Ø0.256"	0-25mm	0.004mm	0.01mm	Ø6.5mm	with	Carbide & Flat	w/o	169-92-1	169-92-0	
0-1"	± .0001"	.001"	Ø0.256"	0-25mm	0.004mm	0.01mm	Ø6.5mm	with	Carbide & Flat	with	169-92-3	169-92-2	
0-1"	± .0001"	.001"	Ø0.256"	0-25mm	0.004mm	0.01mm	Ø6.5mm	with	Carbide & Flat	w/o	169-92-5	169-92-4	
0-1"	± .0001"	.001"	Ø0.256"	0-25mm	0.004mm	0.01mm	Ø6.5mm	with	Carbide & Flat	with	169-92-7	169-92-6	
0-2"	± .0001"	.001"	Ø0.256"	0-50mm	0.004mm	0.01mm	Ø6.5mm	with	Carbide & Flat	w/o	169-93-1	169-93-0	
0-2"	± .0001"	.001"	Ø0.256"	0-50mm	0.004mm	0.01mm	Ø6.5mm	with	Carbide & Flat	with	169-93-3	169-93-2	
0-2"	± .0001"	.001"	Ø0.256"	0-50mm	0.004mm	0.01mm	Ø6.5mm	with	Carbide & Flat	w/o	169-93-5	169-93-4	
0-2"	± .0001"	.001"	Ø0.256"	0-50mm	0.004mm	0.01mm	Ø6.5mm	with	Carbide & Flat	with	169-93-7	169-93-6	

Dimension

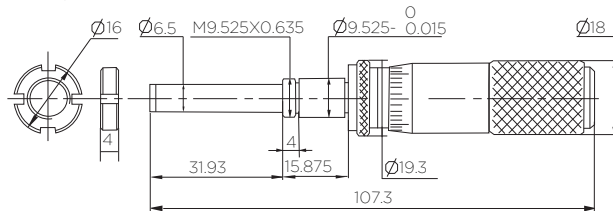
169-05-0



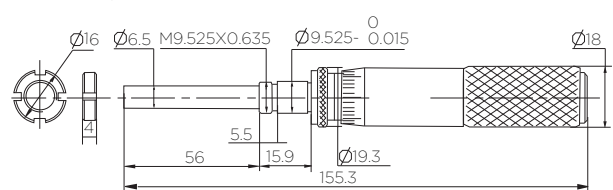
169-05-2/3



169-92-2/3



169-93-2/3





Micrometer Heads

169 Series



169-82-0



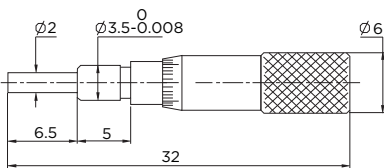
169-75-4

SPECIFICATIONS

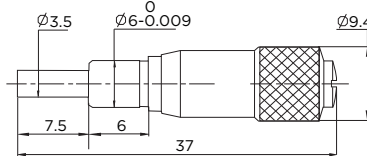
Inch				Metric						Inch		Metric	
Range	Accuracy	Graduation	Spindle Dia.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut	Code No.	Code No.	
0-.2"	±.0001"	.001"	Ø .079"	0-5mm	0.004mm	0.02mm	Ø2mm	w/o	Flat	w/o	169-82-1	169-82-0	
0-.2"	±.0001"	.001"	Ø .079"	0-5mm	0.004mm	0.02mm	Ø2mm	w/o	Spherical	w/o	169-82-3	169-82-2	
0-.25"	±.0001"	.001"	Ø .138"	0-6.5mm	0.004mm	0.01mm	Ø3.5mm	w/o	Flat	w/o	169-65-1	169-65-0	
0-.25"	±.0001"	.001"	Ø .138"	0-6.5mm	0.004mm	0.01mm	Ø3.5mm	w/o	Spherical	w/o	169-65-3	169-65-2	
0-.25"	±.0001"	.001"	Ø .138"	0-6.5mm	0.004mm	0.01mm	Ø3.5mm	w/o	Flat	with	169-65-5	169-65-4	
0-.25"	±.0001"	.001"	Ø .138"	0-6.5mm	0.004mm	0.01mm	Ø3.5mm	w/o	Spherical	with	169-65-7	169-65-6	
0-.25"	±.0001"	.001"	Ø .256"	0-6.5mm	0.004mm	0.01mm	Ø6.5mm	w/o	Carbide & Flat	w/o	169-75-1	169-75-0	
0-.25"	±.0001"	.001"	Ø .256"	0-6.5mm	0.004mm	0.01mm	Ø6.5mm	w/o	Carbide & Spherical	w/o	169-75-3	169-75-2	
0-.25"	±.0001"	.001"	Ø .256"	0-6.5mm	0.004mm	0.01mm	Ø6.5mm	w/o	Carbide & Flat	with	169-75-5	169-75-4	
0-.25"	±.0001"	.001"	Ø .256"	0-6.5mm	0.004mm	0.01mm	Ø6.5mm	w/o	Carbide & Spherical	with	169-75-7	169-75-6	
0-.25"	±.0001"	.0002"	Ø .256"	0-6.5mm	0.004mm	0.005mm	Ø6.5mm	w/o	Carbide & Flat	w/o	169-85-1	169-85-0	
0-.25"	±.0001"	.0002"	Ø .256"	0-6.5mm	0.004mm	0.005mm	Ø6.5mm	w/o	Carbide & Spherical	w/o	169-85-3	169-85-2	

Dimension

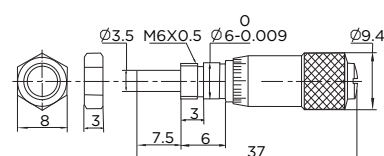
169-82-0/1



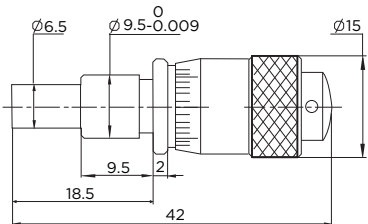
169-65-0/1



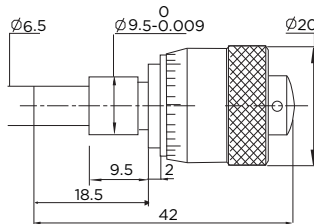
169-65-4/5



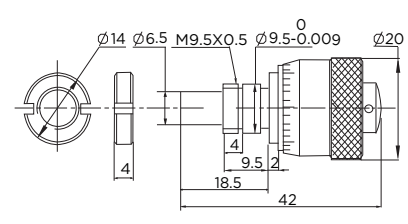
169-85-0/1



169-75-0/1



169-75-4/5

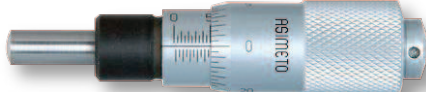


Micrometer Heads

169 Series



169-13-0



169-33-2



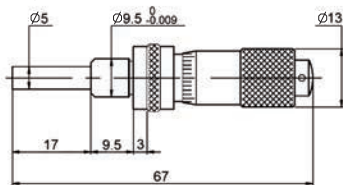
169-45-2

SPECIFICATIONS

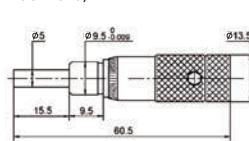
Inch				Metric						Inch		Metric	
Range	Accuracy	Graduation	Spindle Dia.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut	Code No.	Code No.	
0-.5"	±.0001"	.001"	Ø0.197"	0-13mm	0.004mm	0.01mm	Ø5mm	with	Flat	w/o	169-06-1	169-06-0	
0-.5"	±.0001"	.001"	Ø0.197"	0-13mm	0.004mm	0.01mm	Ø5mm	with	Spherical	w/o	169-06-3	169-06-2	
0-.5"	±.0001"	.001"	Ø0.197"	0-13mm	0.004mm	0.01mm	Ø5mm	w/o	Spherical	with	169-06-5	169-06-4	
0-.5"	±.0001"	.001"	Ø0.197"	0-13mm	0.004mm	0.01mm	Ø5mm	w/o	Flat	w/o	169-13-1	169-13-0	
0-.5"	±.0001"	.001"	Ø0.197"	0-13mm	0.004mm	0.01mm	Ø5mm	with	Flat	w/o	169-13-3	169-13-2	
0-.5"	±.0001"	.001"	Ø0.197"	0-13mm	0.004mm	0.01mm	Ø5mm	w/o	Spherical	w/o	169-13-5	169-13-4	
0-.5"	±.0001"	.001"	Ø0.197"	0-13mm	0.004mm	0.01mm	Ø5mm	with	Spherical	w/o	169-13-7	169-13-6	
0-.5"	±.0001"	.001"	Ø0.197"	0-13mm	0.004mm	0.01mm	Ø5mm	w/o	Flat	with	169-23-1	169-23-0	
0-.5"	±.0001"	.001"	Ø0.197"	0-13mm	0.004mm	0.01mm	Ø5mm	with	Flat	with	169-23-3	169-23-2	
0-.5"	±.0001"	.001"	Ø0.197"	0-13mm	0.004mm	0.01mm	Ø5mm	w/o	Spherical	with	169-23-5	169-23-4	
0-.5"	±.0001"	.001"	Ø0.197"	0-13mm	0.004mm	0.01mm	Ø5mm	with	Spherical	with	169-23-7	169-23-6	
0-.5"	±.0001"	.0002"	Ø0.197"	0-13mm	0.004mm	0.005mm	Ø5mm	w/o	Flat	w/o	169-33-1	169-33-0	
0-.5"	±.0001"	.0002"	Ø0.197"	0-13mm	0.004mm	0.005mm	Ø5mm	w/o	Carbide & Spherical	w/o	169-33-3	169-33-2	
0-.5"	±.0001"	.0002"	Ø0.197"	0-13mm	0.004mm	0.005mm	Ø5mm	w/o	Flat	with	169-33-5	169-33-4	
0-.5"	±.0001"	.0002"	Ø0.197"	0-13mm	0.004mm	0.005mm	Ø5mm	w/o	Spherical	with	169-33-7	169-33-6	
0-.5"	±.0001"	.001"	Ø0.197"	0-13mm	0.004mm	0.01mm	Ø5mm	w/o	Carbide & Flat	w/o	169-43-1	169-43-0	
0-.5"	±.0001"	.001"	Ø0.197"	0-13mm	0.004mm	0.01mm	Ø5mm	w/o	Carbide & Spherical	w/o	169-43-3	169-43-2	
0-.5"	±.0001"	.001"	Ø0.197"	0-13mm	0.004mm	0.01mm	Ø5mm	w/o	Carbide & Flat	with	169-43-5	169-43-4	
0-.5"	±.0001"	.001"	Ø0.197"	0-13mm	0.004mm	0.01mm	Ø5mm	w/o	Carbide & Spherical	with	169-43-7	169-43-6	

Dimension

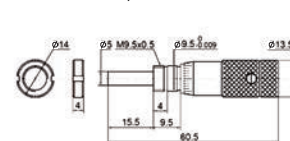
169-06-0/1



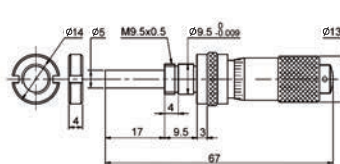
169-45-0/1



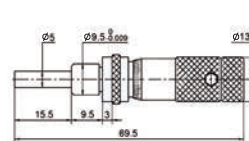
169-23-0/1



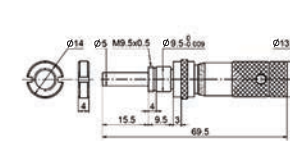
169-06-4/5



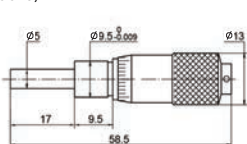
169-13-2/3



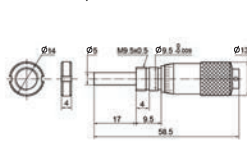
169-23-2/3



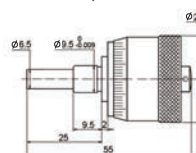
169-33-0/1



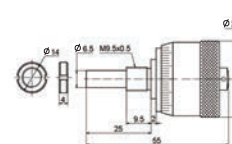
169-33-4/5



169-45-0/1

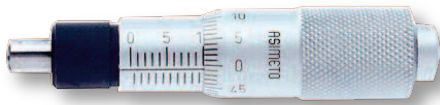


169-45-4/5



Micrometer Heads

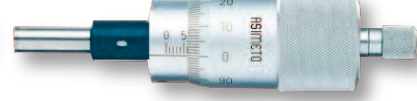
169 Series



169-15-2



169-35-0

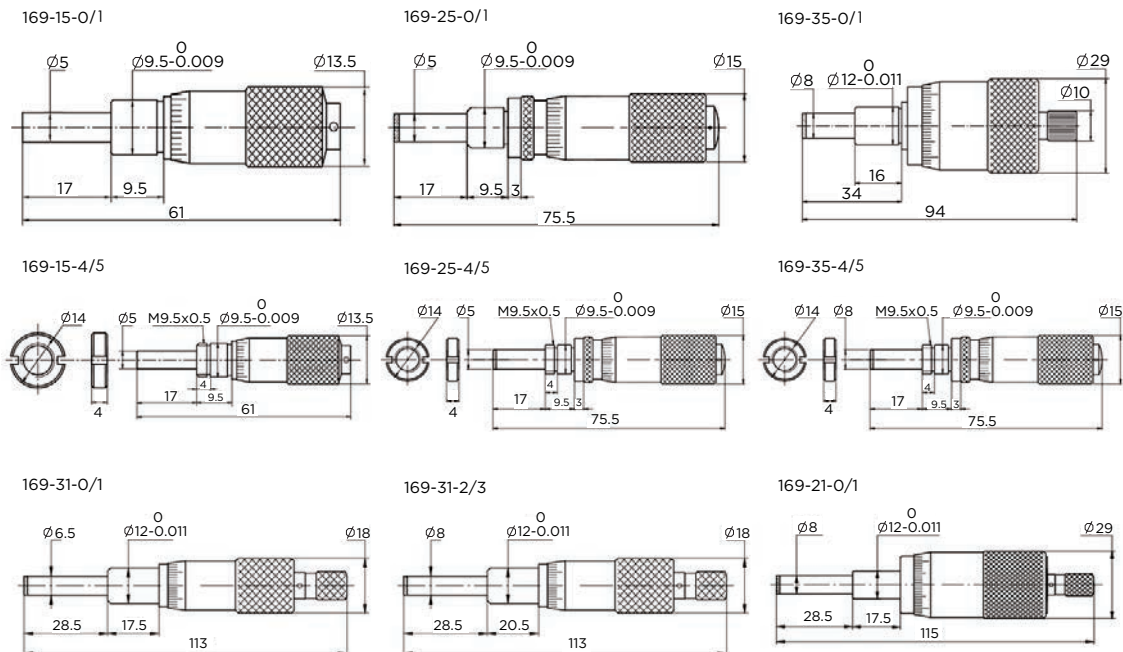


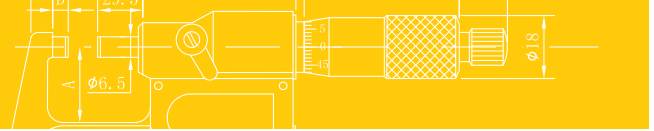
169-21-0

SPECIFICATIONS

Inch				Metric							Inch		Metric	
Range	Accuracy	Graduation	Spindle Dia.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut	Code No.	Code No.		
0-.6"	±.0001"	.001"	Ø0.197"	0-15mm	0.004mm	0.01mm	Ø5mm	w/o	Flat	w/o	169-15-1	169-15-0		
0-.6"	±.0001"	.001"	Ø0.197"	0-15mm	0.004mm	0.01mm	Ø5mm	w/o	Spherical	w/o	169-15-3	169-15-2		
0-.6"	±.0001"	.001"	Ø0.197"	0-15mm	0.004mm	0.01mm	Ø5mm	w/o	Flat	with	169-15-5	169-15-4		
0-.6"	±.0001"	.001"	Ø0.197"	0-15mm	0.004mm	0.01mm	Ø5mm	w/o	Spherical	with	169-15-7	169-15-6		
0-.6"	±.0001"	.001"	Ø0.197"	0-15mm	0.004mm	0.01mm	Ø5mm	with	Flat	w/o	169-25-1	169-25-0		
0-.6"	±.0001"	.001"	Ø0.197"	0-15mm	0.004mm	0.01mm	Ø5mm	with	Spherical	w/o	169-25-3	169-25-2		
0-.6"	±.0001"	.001"	Ø0.197"	0-15mm	0.004mm	0.01mm	Ø5mm	with	Flat	with	169-25-5	169-25-4		
0-.6"	±.0001"	.001"	Ø0.197"	0-15mm	0.004mm	0.01mm	Ø5mm	with	Spherical	with	169-25-7	169-25-6		
0-.6"	±.0001"	.001"	Ø0.315"	0-15mm	0.004mm	0.01mm	Ø8mm	w/o	Carbide & Flat	w/o	169-35-1	169-35-0		
0-.6"	±.0001"	.001"	Ø0.315"	0-15mm	0.004mm	0.01mm	Ø8mm	w/o	Carbide & Spherical	w/o	169-35-3	169-35-2		
0-.6"	±.0001"	.001"	Ø0.315"	0-15mm	0.004mm	0.01mm	Ø8mm	w/o	Carbide & Flat	with	169-35-5	169-35-4		
0-.6"	±.0001"	.001"	Ø0.315"	0-15mm	0.004mm	0.01mm	Ø8mm	w/o	Carbide & Spherical	with	169-35-7	169-35-6		
0-1"	±.0001"	.001"	Ø0.315"	0-25mm	0.004mm	0.01mm	Ø8mm	w/o	Carbide & Flat	w/o	169-21-1	169-21-0		
0-1"	±.0001"	.001"	Ø0.315"	0-25mm	0.004mm	0.01mm	Ø8mm	w/o	Carbide & Spherical	w/o	169-21-3	169-21-2		
0-1"	±.0001"	.001"	Ø0.256"	0-25mm	0.004mm	0.01mm	Ø6.5mm	w/o	Carbide & Flat	w/o	169-31-1	169-31-0		
0-1"	±.0001"	.001"	Ø0.256"	0-25mm	0.004mm	0.01mm	Ø6.5mm	w/o	Carbide & Spherical	w/o	169-32-1	169-32-0		
0-1"	±.0001"	.001"	Ø0.315"	0-25mm	0.004mm	0.01mm	Ø8mm	w/o	Carbide & Flat	w/o	169-31-3	169-31-2		
0-1"	±.0001"	.001"	Ø0.315"	0-25mm	0.004mm	0.01mm	Ø8mm	w/o	Carbide & Spherical	w/o	169-32-3	169-32-2		
0-1"	±.0001"	.0001"	Ø0.256"	0-25mm	0.004mm	0.002mm	Ø6.5mm	w/o	Carbide & Flat	w/o	169-31-5	169-31-4		
0-1"	±.0001"	.0001"	Ø0.256"	0-25mm	0.004mm	0.002mm	Ø6.5mm	w/o	Carbide & Spherical	w/o	169-32-5	169-32-4		
0-1"	±.0001"	.0001"	Ø0.315"	0-25mm	0.004mm	0.002mm	Ø8mm	w/o	Carbide & Flat	w/o	169-31-7	169-31-6		
0-1"	±.0001"	.0001"	Ø0.315"	0-25mm	0.004mm	0.002mm	Ø8mm	w/o	Carbide & Spherical	w/o	169-32-7	169-32-6		

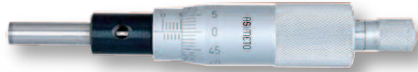
Dimension



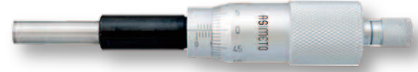


Micrometer Heads

169 Series



169-11-2



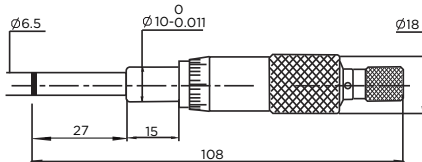
169-51-0

SPECIFICATIONS

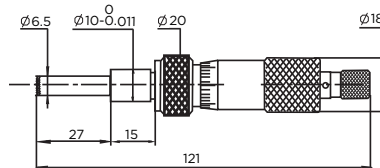
Inch				Metric				Inch				Metric	
Range	Accuracy	Graduation	Spindle Dia.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut	Code No.	Code No.	
0-1"	±.0001"	.001"	Ø0.256"	0-25mm	0.004mm	0.01mm	Ø6.5mm	w/o	Carbide & Flat	w/o	169-11-3	169-11-2	
0-1"	±.0001"	.001"	Ø0.256"	0-25mm	0.004mm	0.01mm	Ø6.5mm	w/o	Carbide & Spherical	w/o	169-11-1	169-11-0	
0-1"	±.0001"	.001"	Ø0.256"	0-25mm	0.004mm	0.01mm	Ø6.5mm	w/o	Carbide & Flat	with	169-01-3	169-01-2	
0-1"	±.0001"	.001"	Ø0.256"	0-25mm	0.004mm	0.01mm	Ø6.5mm	w/o	Carbide & Spherical	with	169-01-1	169-01-0	
0-1"	±.0001"	.001"	Ø0.256"	0-25mm	0.004mm	0.01mm	Ø6.5mm	with	Carbide & Flat	w/o	169-41-1	169-41-0	
0-1"	±.0001"	.001"	Ø0.256"	0-25mm	0.004mm	0.01mm	Ø6.5mm	with	Carbide & Spherical	w/o	169-41-3	169-41-2	
0-1"	±.0001"	.001"	Ø0.256"	0-25mm	0.004mm	0.01mm	Ø6.5mm	with	Carbide & Flat	with	169-42-1	169-42-0	
0-1"	±.0001"	.001"	Ø0.256"	0-25mm	0.004mm	0.01mm	Ø6.5mm	with	Carbide & Spherical	with	169-42-3	169-42-2	
0-1"	±.0001"	.001"	Ø0.315"	0-25mm	0.004mm	0.01mm	Ø8mm	w/o	Carbide & Flat	w/o	169-51-1	169-51-0	
0-1"	±.0001"	.001"	Ø0.315"	0-25mm	0.004mm	0.01mm	Ø8mm	w/o	Carbide & Spherical	w/o	169-52-1	169-52-0	
0-1"	±.0001"	.001"	Ø0.315"	0-25mm	0.004mm	0.01mm	Ø8mm	w/o	Carbide & Flat	w/o	169-53-1	169-53-0	
0-1"	±.0001"	.001"	Ø0.315"	0-25mm	0.004mm	0.01mm	Ø8mm	w/o	Carbide & Spherical	w/o	169-54-1	169-54-0	
0-1"	±.0001"	.0001"	Ø0.315"	0-25mm	0.004mm	0.001mm	Ø8mm	w/o	Carbide & Flat	w/o	169-51-3	169-51-2	
0-1"	±.0001"	.0001"	Ø0.315"	0-25mm	0.004mm	0.001mm	Ø8mm	w/o	Carbide & Spherical	w/o	169-52-3	169-52-2	
0-1"	±.0001"	.0001"	Ø0.315"	0-25mm	0.004mm	0.001mm	Ø8mm	w/o	Carbide & Flat	w/o	169-53-3	169-53-2	
0-1"	±.0001"	.0001"	Ø0.315"	0-25mm	0.004mm	0.001mm	Ø8mm	w/o	Carbide & Spherical	w/o	169-54-3	169-54-2	
0-1"	±.0001"	.001"	Ø0.315"	0-25mm	0.004mm	0.01mm	Ø8mm	w/o	Carbide & Flat	with	169-51-5	169-51-4	
0-1"	±.0001"	.001"	Ø0.315"	0-25mm	0.004mm	0.01mm	Ø8mm	w/o	Carbide & Spherical	with	169-52-5	169-52-4	
0-1"	±.0001"	.001"	Ø0.315"	0-25mm	0.004mm	0.01mm	Ø8mm	w/o	Carbide & Flat	with	169-53-5	169-53-4	
0-1"	±.0001"	.001"	Ø0.315"	0-25mm	0.004mm	0.01mm	Ø8mm	w/o	Carbide & Spherical	with	169-54-5	169-54-4	
0-1"	±.0001"	.0001"	Ø0.315"	0-25mm	0.004mm	0.001mm	Ø8mm	w/o	Carbide & Flat	with	169-51-7	169-51-6	
0-1"	±.0001"	.0001"	Ø0.315"	0-25mm	0.004mm	0.001mm	Ø8mm	w/o	Carbide & Spherical	with	169-52-7	169-52-6	
0-1"	±.0001"	.0001"	Ø0.315"	0-25mm	0.004mm	0.001mm	Ø8mm	w/o	Carbide & Flat	with	169-53-7	169-53-6	
0-1"	±.0001"	.0001"	Ø0.315"	0-25mm	0.004mm	0.001mm	Ø8mm	w/o	Carbide & Spherical	with	169-54-7	169-54-6	

Dimension

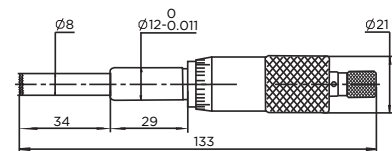
169-11-2/3



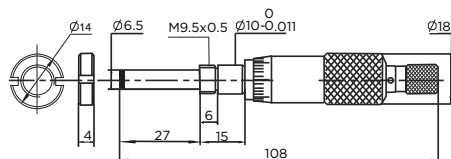
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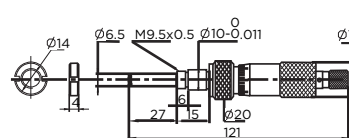
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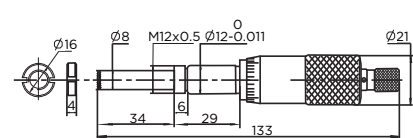
169-01-2/3



169-42-0/1

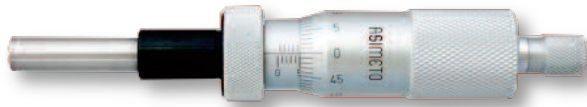


169-51-4/5

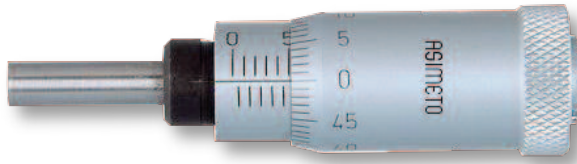


Micrometer Heads

169 Series



169-55-0



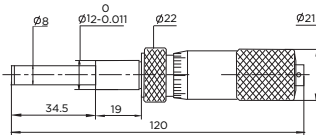
169-91-0

SPECIFICATIONS

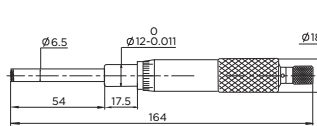
Inch				Metric						Inch		Metric	
Range	Accuracy	Graduation	Spindle Dia.	Range	Accuracy	Graduation	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut	Code No.	Code No.	
0-1"	± .0001"	.001"	Ø0.315"	0-25mm	0.004mm	0.01mm	Ø8mm	with	Carbide & Flat	w/o	169-55-1A	169-55-0A	
0-1"	± .0001"	.001"	Ø0.315"	0-25mm	0.004mm	0.01mm	Ø8mm	with	Carbide & Spherical	w/o	169-56-1	169-56-0	
0-1"	± .0001"	.001"	Ø0.315"	0-25mm	0.004mm	0.01mm	Ø8mm	with	Carbide & Flat	w/o	169-57-1	169-57-0	
0-1"	± .0001"	.001"	Ø0.315"	0-25mm	0.004mm	0.01mm	Ø8mm	with	Carbide & Spherical	w/o	169-58-1	169-58-0	
0-1"	± .0001"	.0001"	Ø0.315"	0-25mm	0.004mm	0.001mm	Ø8mm	with	Carbide & Flat	w/o	169-55-3	169-55-2	
0-1"	± .0001"	.0001"	Ø0.315"	0-25mm	0.004mm	0.001mm	Ø8mm	with	Carbide & Spherical	w/o	169-56-3	169-56-2	
0-1"	± .0001"	.0001"	Ø0.315"	0-25mm	0.004mm	0.001mm	Ø8mm	with	Carbide & Flat	w/o	169-57-3	169-57-2	
0-1"	± .0001"	.0001"	Ø0.315"	0-25mm	0.004mm	0.001mm	Ø8mm	with	Carbide & Spherical	w/o	169-58-3	169-58-2	
0-1"	± .0001"	.001"	Ø0.315"	0-25mm	0.004mm	0.01mm	Ø8mm	with	Carbide & Flat	with	169-55-5	169-55-4	
0-1"	± .0001"	.001"	Ø0.315"	0-25mm	0.004mm	0.01mm	Ø8mm	with	Carbide & Spherical	with	169-56-5	169-56-4	
0-1"	± .0001"	.001"	Ø0.315"	0-25mm	0.004mm	0.01mm	Ø8mm	with	Carbide & Flat	with	169-57-5	169-57-4	
0-1"	± .0001"	.001"	Ø0.315"	0-25mm	0.004mm	0.01mm	Ø8mm	with	Carbide & Spherical	with	169-58-5	169-58-4	
0-1"	± .0001"	.0001"	Ø0.315"	0-25mm	0.004mm	0.001mm	Ø8mm	with	Carbide & Flat	with	169-55-7	169-55-6	
0-1"	± .0001"	.0001"	Ø0.315"	0-25mm	0.004mm	0.001mm	Ø8mm	with	Carbide & Spherical	with	169-56-7	169-56-6	
0-1"	± .0001"	.0001"	Ø0.315"	0-25mm	0.004mm	0.001mm	Ø8mm	with	Carbide & Flat	with	169-57-7	169-57-6	
0-1"	± .0001"	.0001"	Ø0.315"	0-25mm	0.004mm	0.001mm	Ø8mm	with	Carbide & Spherical	with	169-58-7	169-58-6	
0-2"	± .0001"	.001"	Ø0.256"	0-50mm	0.004mm	0.01mm	Ø6.5mm	w/o	Carbide & Flat	w/o	169-81-1	169-81-0	
0-2"	± .0001"	.001"	Ø0.256"	0-50mm	0.004mm	0.01mm	Ø6.5mm	w/o	Carbide & Spherical	w/o	169-81-3	169-81-2	
0-2"	± .0001"	.001"	Ø0.256"	0-50mm	0.004mm	0.01mm	Ø6.5mm	w/o	Carbide & Flat	with	169-81-5	169-81-4	
0-2"	± .0001"	.001"	Ø0.256"	0-50mm	0.004mm	0.01mm	Ø6.5mm	w/o	Carbide & Spherical	with	169-81-7	169-81-6	
0-.5"	± .0001"	.001"	Ø0.157"	0-13mm	0.004mm	0.01mm	Ø4mm	w/o	Flat	w/o	169-91-1	169-91-0	
0-.5"	± .0001"	.001"	Ø0.197"	0-13mm	0.004mm	0.01mm	Ø5mm	w/o	Spherical	with	169-91-3	169-91-2	

Dimension

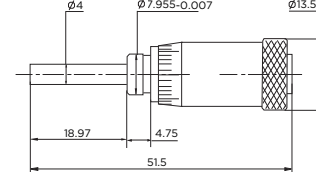
169-55-0/1



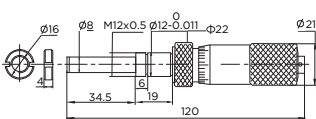
169-81-0/1



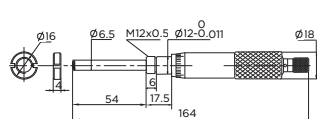
169-91-0/1



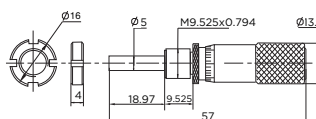
169-55-4/5

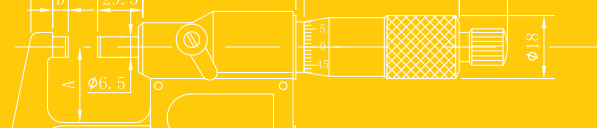


169-81-4/5



169-91-2/3



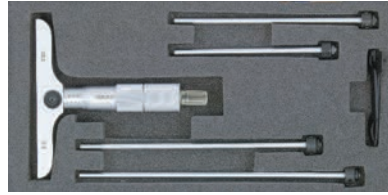


Depth Micrometers

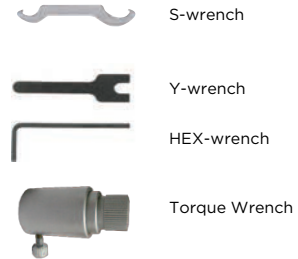
201 / 205 Series



205-04-3



201-04-3



FEATURES

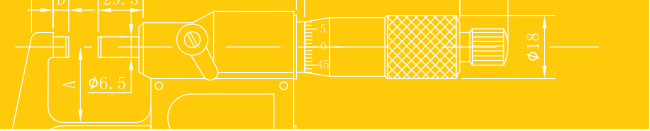
- Resolution
Digital models: .00005" / 0.001mm
Mechanical models: .001" / 0.01mm
- Micrometers head accuracy: (0-25mm / 0-1")
Metric: $\pm 0.003\text{mm}$
Inch: $\pm 0.0001"$
- Measuring inserts accuracy:
Metric: $\pm(2+L/75)\ \mu\text{m}$
Inch: $\pm[0.001+0.0005(L/3)]"$
L = Maximum measuring Length (mm) (inch)
- Protection level IP65
- Ratchet stop
- 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
- The measurement mode of Absolute or Incremental is displayed when turned on
- The battery life is maximized with the automatic On/Off feature
- Inch/Metric conversion

STANDARD ACCESSORIES

- Battery (Digital models), Rods, Y-wrench, S-wrench, HEX-wrench (Mechanical Models), Torque Wrench (Mechanical Models), Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch	Metric			Inch Code No.		Metric Code No.	
Range	Range	Base length	Rods	Flat End	Spherical End	Flat End	Spherical End
Digital models							
0-2"	0-50mm	63mm	2 pcs	205-02-1	205-52-1	205-02-0	205-52-0
0-4"	0-100mm	63mm	4 pcs	205-04-1	205-54-1	205-04-0	205-54-0
0-6"	0-150mm	63mm	6 pcs	205-06-1	205-56-1	205-06-0	205-56-0
0-12"	0-300mm	63mm	12 pcs	205-12-1	205-62-1	205-12-0	205-62-0
0-4"	0-100mm	101.5mm	4 pcs	205-04-3	205-54-3	205-04-2	205-54-2
0-6"	0-150mm	101.5mm	6 pcs	205-06-3	205-56-3	205-06-2	205-56-2
0-12"	0-300mm	101.5mm	12 pcs	205-12-3	205-62-3	205-12-2	205-62-2
Mechanical models (Run through interchangeable rods)							
0-2"	0-50mm	63mm	2 pcs	201-02-1	201-52-1	201-02-0	201-52-0
0-4"	0-100mm	63mm	4 pcs	201-04-1	201-54-1	201-04-0	201-54-0
0-6"	0-150mm	63mm	6 pcs	201-06-1	201-56-1	201-06-0	201-56-0
0-12"	0-300mm	63mm	12 pcs	201-12-1	201-62-1	201-12-0	201-62-0
0-4"	0-100mm	101.5mm	4 pcs	201-04-3	201-54-3	201-04-2	201-54-2
0-6"	0-150mm	101.5mm	6 pcs	201-06-3	201-56-3	201-06-2	201-56-2
0-12"	0-300mm	101.5mm	12 pcs	201-12-3	201-62-3	201-12-2	201-62-2
Mechanical models - Half base							
0-4"	0-100mm	57mm	4 pcs	201-04-7	-	201-04-6	-
0-6"	0-150mm	57mm	6 pcs	201-06-7	-	201-06-6	-



Micrometer Standards

110 Series

FEATURES

- Used for zero point setting of outside micrometers
- 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



110-11-1



110-08-1



110-06-1

SPECIFICATIONS

Metric				Inch			
Size	Accuracy	Diameter	Code No.	Size	Accuracy	Diameter	Code No.
25mm	± 0.0012mm	Ø7mm	110-01-0	1"	± .00005"	Ø7mm	110-01-1
50mm	± 0.0012mm	Ø7mm	110-02-0	2"	± .0001"	Ø7mm	110-02-1
75mm	± 0.0015mm	Ø7mm	110-03-0	3"	± .0001"	Ø7mm	110-03-1
100mm	± 0.0020mm	Ø8mm	110-04-0	4"	± .0001"	Ø8mm	110-04-1
125mm	± 0.0025mm	Ø8mm	110-05-0	5"	± .00015"	Ø8mm	110-05-1
150mm	± 0.0025mm	Ø8mm	110-06-0	6"	± .00015"	Ø8mm	110-06-1
175mm	± 0.0025mm	Ø8mm	110-07-0	7"	± .00015"	Ø8mm	110-07-1
200mm	± 0.0035mm	Ø8mm	110-08-0	8"	± .00015"	Ø8mm	110-08-1
225mm	± 0.0035mm	Ø8mm	110-09-0	9"	± .00020"	Ø8mm	110-09-1
250mm	± 0.0035mm	Ø8mm	110-10-0	10"	± .00020"	Ø8mm	110-10-1
275mm	± 0.0040mm	Ø8mm	110-11-0	11"	± .00020"	Ø8mm	110-11-1
300mm	± 0.0040mm	Ø16mm	110-12-0	12"	± .00025"	Ø16mm	110-12-1
325mm	± 0.0045mm	Ø16mm	110-13-0	13"	± .00025"	Ø16mm	110-13-1
350mm	± 0.0045mm	Ø16mm	110-14-0	14"	± .00025"	Ø16mm	110-14-1
375mm	± 0.0045mm	Ø16mm	110-15-0	15"	± .00025"	Ø16mm	110-15-1
400mm	± 0.0045mm	Ø16mm	110-16-0	16"	± .00025"	Ø16mm	110-16-1
425mm	± 0.0050mm	Ø16mm	110-17-0	17"	± .00025"	Ø16mm	110-17-1
450mm	± 0.0050mm	Ø16mm	110-18-0	18"	± .00025"	Ø16mm	110-18-1
475mm	± 0.0050mm	Ø16mm	110-19-0	19"	± .00030"	Ø16mm	110-19-1
500mm	± 0.0050mm	Ø16mm	110-20-0	20"	± .00030"	Ø16mm	110-20-1
525mm	± 0.0055mm	Ø16mm	110-21-0	21"	± .00030"	Ø16mm	110-21-1
575mm	± 0.0055mm	Ø16mm	110-22-0	23"	± .00030"	Ø16mm	110-22-1
625mm	± 0.0055mm	Ø16mm	110-23-0	25"	± .00030"	Ø16mm	110-23-1
675mm	± 0.0065mm	Ø16mm	110-24-0	27"	± .00035"	Ø16mm	110-24-1
725mm	± 0.0065mm	Ø16mm	110-25-0	29"	± .00035"	Ø16mm	110-25-1
775mm	± 0.0065mm	Ø16mm	110-26-0	31"	± .00035"	Ø16mm	110-26-1
825mm	± 0.0075mm	Ø16mm	110-27-0	33"	± .00035"	Ø16mm	110-27-1
875mm	± 0.0075mm	Ø16mm	110-28-0	35"	± .00035"	Ø16mm	110-28-1
925mm	± 0.0075mm	Ø16mm	110-29-0	37"	± .00035"	Ø16mm	110-29-1
975mm	± 0.0075mm	Ø16mm	110-30-0				
1050mm	± 0.0090mm	Ø23mm	110-31-0				
1150mm	± 0.0090mm	Ø23mm	110-32-0				
1250mm	± 0.0090mm	Ø23mm	110-33-0				
1350mm	± 0.0105mm	Ø23mm	110-34-0				
1450mm	± 0.0105mm	Ø23mm	110-35-0				
1550mm	± 0.0105mm	Ø23mm	110-36-0				
1650mm	± 0.0125mm	Ø23mm	110-37-0				
1750mm	± 0.0125mm	Ø23mm	110-38-0				
1850mm	± 0.0125mm	Ø23mm	110-39-0				
1950mm	± 0.0125mm	Ø23mm	110-40-0				



0 0
10
20

100
110
1

ASIMETO

25

ON OFF 0 ABS

mm in

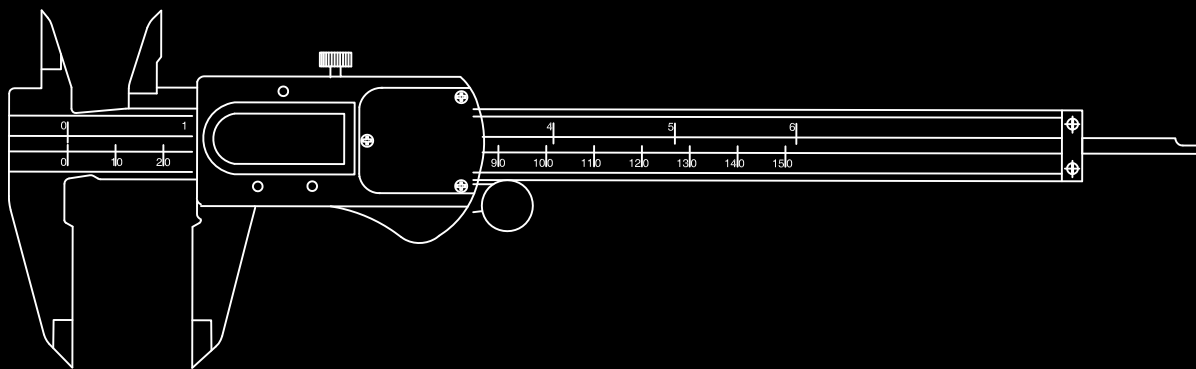
ORIGIN

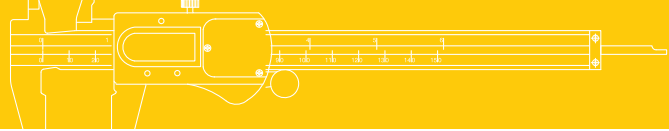
ASIMETO

4

Calipers

55	IP67 Digital Calipers _SYLVAC SYSTEM	77	Heavy Duty Vernier Calipers (Mono block)
55	IP67 Digital Calipers	78	Heavy Duty Vernier Calipers (Open block)
56	IP67 Big Screen Digital Caliper	79	Circle Vernier Calipers
56	Big Screen Digital Caliper	79	T Form Marking Calipers
57	Absolute Digital Calipers	79	Marking Calipers
57	Digital Calipers (Four Buttons)	79	Measuring Gauges
58	Multi-function Digital Calipers	80	Internal Dial Caliper Gauges
59	Digital Calipers (Three Buttons)	81	Internal Caliper Gauges
60	ABS Heavy Duty Digital Calipers	82	External Caliper Gauges
61	Ultra Light Heavy Duty Digital Calipers _SYLVAC SYSTEM	83	Tool Kits
62	Ultra Light Digital Universal Depth Gauges _SYLVAC SYSTEM		
63	ABS Digital Calipers for Outside/Inside Grooves		
64	ABS Digital Tube Calipers		
64	Digital Calipers With Adjustable Measuring Jaw		
65	Digital Gear Tooth Calipers		
66	Digital Thickness Gauges	84	
67	Digital Gauge With Single Wide Measuring Face		
67	Welding Fillet Gauges		
68	Mini-type 3-purpose Digital Calipers		
68	Hook Type Digital Calipers		
69	Digital Scales		
70	Dial Calipers		
71	Vernier Calipers		
73	Long Jaw Vernier Calipers (Mono block)		
74	Long Jaw Vernier Calipers (Open block)		
75	Heavy Duty Vernier Calipers With Upper Knife-edge (Mono block)		
76	Heavy Duty Vernier Calipers With Upper Knife-edge (Open block)		





IP67 Digital Calipers _ SYLVAC SYSTEM

301 Series



301-06-0

FEATURES

- Resolution: .0005" / 0.01mm
- Conforms to the IP67 ratings
- Inch / Metric conversion
- Auto power On / Off
- Sylvac system

STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch		Metric		Code No.	Remark
Range	Accuracy	Range	Accuracy		
0-6"	± .001"	0-150mm	± 0.02mm	301-06-0	
0-6"	± .001"	0-150mm	± 0.02mm	301-06-2	round depth bar Ø1.5mm
0-8"	± .0015"	0-200mm	± 0.03mm	301-08-0	
0-12"	± .0015"	0-300mm	± 0.03mm	301-12-0	

IP67 Digital Calipers

305 Series



305-06-2



FEATURES

- Resolution: .0005" / 0.01mm
- Absolute function, there is no need to set the zero
- Absolute or incremental measuring modes
- Metal Housing, the design will allow the caliper to be used in normal workshop conditions and is resistant to coolant, water, dust or oil
- Conforms to the IP67 ratings
- Hold function for easy reading
- Inch/Metric conversion
- Auto power On / Off
- With Thumb Wheel

STANDARD ACCESSORIES

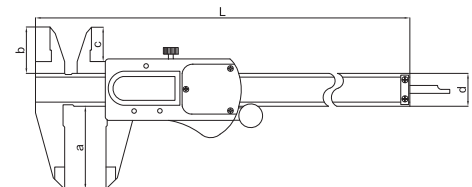
- Battery, Screwdriver
- Warranty card, Instruction manual, Calibration certificate

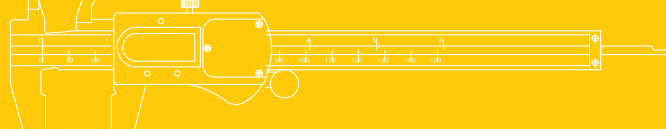
SPECIFICATIONS

Inch		Metric		Code No.
Range	Accuracy	Range	Accuracy	
0-6"	± .001"	0-150mm	± 0.02mm	305-06-2
0-8"	± .0015"	0-200mm	± 0.03mm	305-08-2
0-12"	± .0015"	0-300mm	± 0.03mm	305-12-2

Dimension

Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-6"/0-150mm	236	40	21	16.5	16
0-8"/0-200mm	286	50	24	19.5	16
0-12"/0-300mm	400	60	25	20.5	16





IP67 Big Screen Digital Caliper

305 Series



305-06-5

FEATURES

- Resolution: .0005" / 0.01mm
- Large screen: (53.5 x 15.5mm) LCD display area
- Auto power off, extend battery life
- Inch / Metric conversion
- Memory function: Keep the reading even after the display is turned off
- Conforms to the IP67 ratings

SPECIFICATIONS

Inch		Metric		With Thumb Wheel	W/O Thumb Wheel
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-6"	± .001"	0-150mm	± 0.02mm	305-06-5	305-06-6
0-8"	± .0015"	0-200mm	± 0.03mm	305-08-5	305-08-6
0-12"	± .0015"	0-300mm	± 0.03mm	305-12-5	305-12-6

STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

Big Screen Digital Caliper

306 Series



306-06-5



306-06-3

FEATURES

- Resolution: .0005" / 0.01mm
- Large screen: (53.5 x 15.5mm) LCD display area
- Auto power off, extend battery life
- Inch / Metric conversion
- Memory function: Keep the reading even after the display is turned off
- Absolute measurement model with the function of data output (ABS type products)
- Cable data output: 900-05-4 / 5; (ABS type products)
- Wireless data output:
Transmitting Device: 901-00-4 / 6
Receiver Device: 901-00-3

SPECIFICATIONS

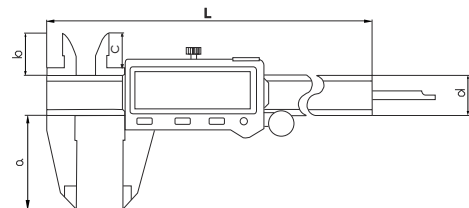
Inch		Metric		With Thumb Wheel	W/O Thumb Wheel
Range	Accuracy	Range	Accuracy	Code No.	Code No.
Incremental Type					
0-6"	± .001"	0-150mm	± 0.02mm	306-06-5	306-06-6
0-8"	± .0015"	0-200mm	± 0.03mm	306-08-5	306-08-6
0-12"	± .0015"	0-300mm	± 0.03mm	306-12-5	306-12-6
Absolute Type					
0-6"	± .001"	0-150mm	± 0.02mm	306-06-3	306-06-4
0-8"	± .0015"	0-200mm	± 0.03mm	306-08-3	306-08-4
0-12"	± .0015"	0-300mm	± 0.03mm	306-12-3	306-12-4

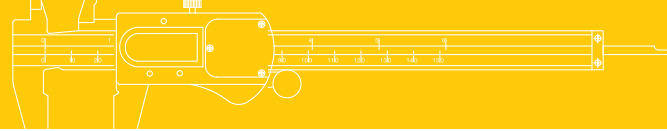
STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

Dimension

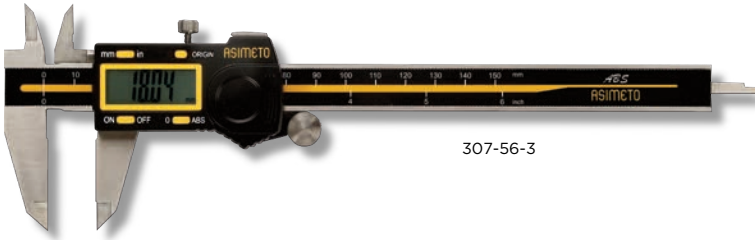
Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-6"/0-150mm	236	40	21	16.5	16
0-8"/0-200mm	286	50	24	19.5	16
0-12"/0-300mm	400	60	25	20.5	16





Absolute Digital Calipers

307 Series



307-56-3

SPECIFICATIONS

Inch	Metric	With Thumb Wheel	W/O Thumb Wheel
Range	Accuracy	Range	Accuracy
0-6"	± .001"	0-150mm	± 0.02mm
0-8"	± .0015"	0-200mm	± 0.03mm
0-12"	± .0015"	0-300mm	± 0.03mm

Dimension

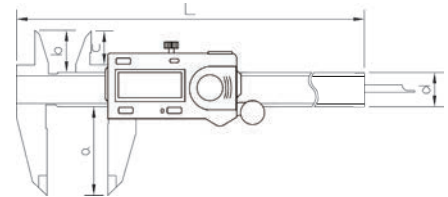
Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-6"/0-150mm	236	40	21	16.5	16
0-8"/0-200mm	286	50	24	19.5	16
0-12"/0-300mm	400	60	25	20.5	16

FEATURES

- Resolution: .0005" / 0.01mm
- The caliper will be ready for measurements as soon as it is switched on with the LCD screen displaying the actual slider position. There is no need to set the zero position each time the caliper is used as the origin setting is retained even when the caliper is switched off
- Absolute system delivers reliable measurement
- Inch/Metric conversion
- A thumb wheel is provided for easy use
- Cable data output: 900-05-4 / 5
- Wireless data output:
Transmitting Device : 901-00-4 / 6
Receiver Device: 901-00-3

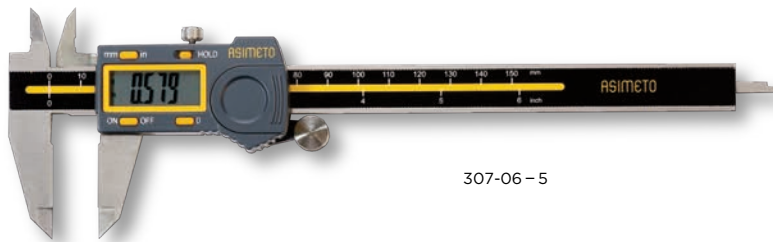
STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate



Digital Calipers (Four Buttons)

307 Series



307-06-5

SPECIFICATIONS

Inch	Metric	With Thumb Wheel	W/O Thumb Wheel
Range	Accuracy	Range	Accuracy
0-4"	± .001"	0-100mm	± 0.02mm
0-6"	± .001"	0-150mm	± 0.02mm
0-8"	± .0015"	0-200mm	± 0.03mm
0-12"	± .0015"	0-300mm	± 0.03mm

Dimension

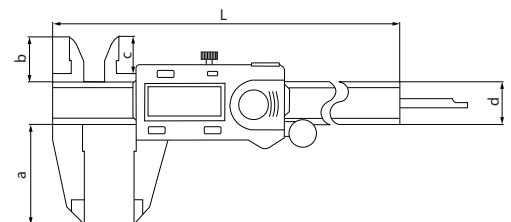
Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-4"/0-100mm	186	40	21	16.5	16
0-6"/0-150mm	236	40	21	16.5	16
0-8"/0-200mm	286	50	24	19.5	16
0-12"/0-300mm	400	60	25	20.5	16

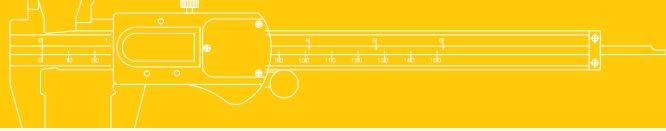
FEATURES

- Resolution: .0005" / 0.01mm
- Extra large LCD readout
- The origin position is retained through the On/Off cycle
- Inch/Metric conversion

STANDARD ACCESSORIES

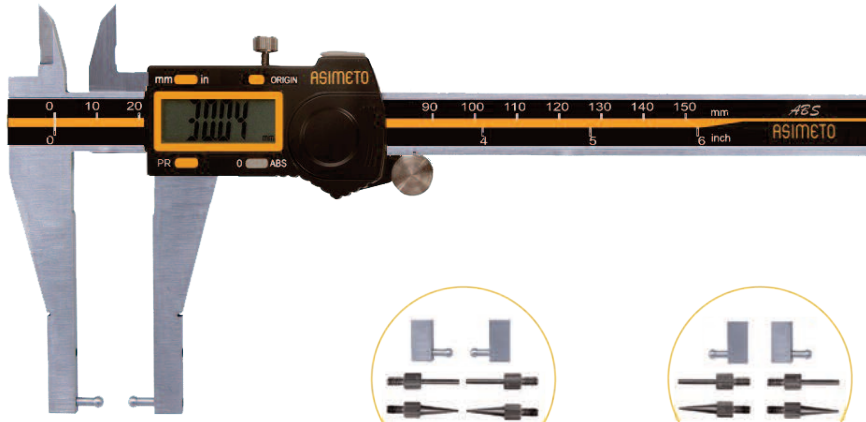
- Battery
- Warranty card, Instruction manual, Calibration certificate





Multi-function Digital Calipers

318 Series



Probes for external dimensions

Probes for internal dimensions

FEATURES

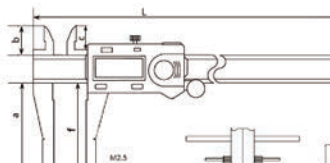
- Resolution: .0005" / 0.01mm
- ABS system delivery reliable measurement With preset value function, the initial value can be set arbitrarily
- Zero-setting at any position for incremental measurement
- Inch/Metric conversion
- With three shape probes
- Cable data output: 900-05-4 / 5
- Wireless data output:
Transmitting Device : 901-00-4 / 6
Receiver Device: 901-00-3

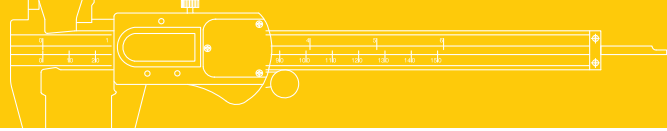
SPECIFICATIONS

Inch		Metric		With Thumb Wheel	W/O Thumb Wheel
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-6"	± .0005"	0-150mm	± 0.03mm	318-06-3	318-06-2
0-8"	± .0005"	0-200mm	± 0.03mm	318-08-3	318-08-2
0-12"	± .002"	0-300mm	± 0.04mm	318-12-3	318-12-2

Dimension

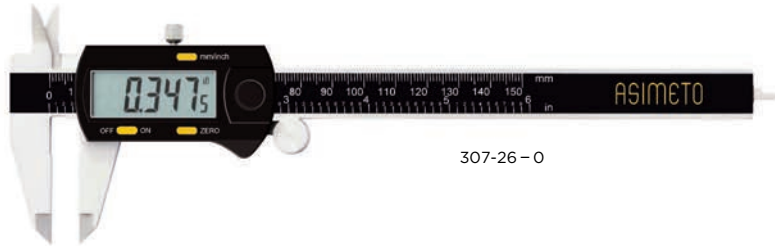
Range	L	a	b	c	d	e	f
Inch/Metric	mm	mm	mm	mm	mm	mm	mm
0-6"/0-150mm	235	67.2	22.55	18	16	7.5	64.2
0-8"/0-200mm	287	67.2	22.55	18	16	7.5	64.2
0-12"/0-300mm	390	67.2	22.55	18	16	7.5	64.2





Digital Calipers (Three Buttons)

307 Series



307-26-0

FEATURES

- Resolution: .0005" / 0.01mm
- Extra large LCD readout
- The origin position is retained through the On/Off cycle
- Inch/Metric conversion

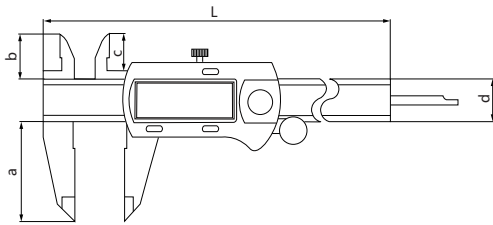
STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

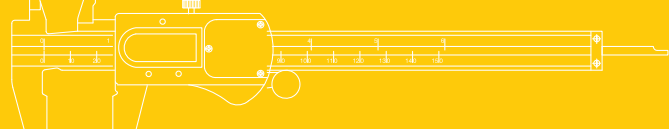
SPECIFICATIONS

Inch		Metric		With Thumb Wheel	
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-6"	± .001"	0-150mm	± 0.02mm	307-26-1	307-26-0
0-8"	± .0015"	0-200mm	± 0.03mm	307-28-1	307-28-0
0-12"	± .0015"	0-300mm	± 0.03mm	307-32-1	307-32-0

Dimension



Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-6"/0-150mm	236	40	21	16.5	16
0-8"/0-200mm	286	50	24	19.5	16
0-12"/0-300mm	400	60	26	21.5	16



ABS Heavy Duty Digital Calipers

315 Series



315-12-6



315-12-8

FEATURES

- Resolution: .0005" / 0.01mm
- Designed with fine adjustment to allow precise movement of the slider
- Internal measurement jaws are rounded to provide accurate measurement of internal diameters
- Minimum internal diameter measurement capability of 20mm
- Inch/Metric conversion
- Zero setting at any position
- Models are available with or without upper jaws
- Absolute delivery reliable measurement
- Cable data output: 900-05-4/5
- Wireless data output:
Transmitting Device : 901-00-4/6
Receiver Device: 901-00-3

STANDARD ACCESSORIES

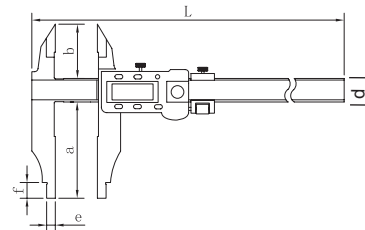
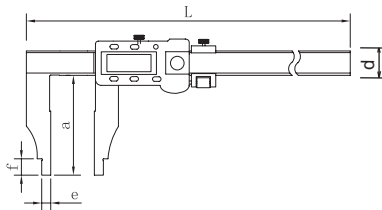
- Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch		Metric				
Range	Resolution	Range	Resolution	Accuracy	Jaw Length	Code No.
Without Upper Jaws						
0-12"	.0005"	0-300mm	0.01mm	± 0.04mm	90mm	315-12-6
0-20"	.0005"	0-500mm	0.01mm	± 0.05mm	150mm	315-20-6
0-24"	.0005"	0-600mm	0.01mm	± 0.05mm	100mm	315-24-6
0-32"	.0005"	0-800mm	0.01mm	± 0.07mm	150mm	315-32-6
0-40"	.0005"	0-1000mm	0.01mm	± 0.07mm	150mm	315-40-6
With Upper Jaws						
0-12"	.0005"	0-300mm	0.01mm	± 0.04mm	90mm	315-12-8
0-20"	.0005"	0-500mm	0.01mm	± 0.05mm	150mm	315-20-8
0-32"	.0005"	0-800mm	0.01mm	± 0.07mm	150mm	315-32-8
0-40"	.0005"	0-1000mm	0.01mm	± 0.07mm	150mm	315-40-8

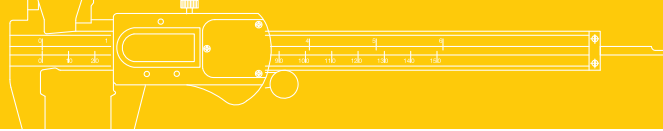
Remark: Special Jaw Length are upon requested

Dimension



Range	L	a	d	e	f
Inch/Metric	mm	mm	mm	mm	mm
0-12"/0-300mm	470	90	20	5	18
0-20"/0-500mm	680	150	24	10	18
0-24"/0-600mm	730	100	24	10	18
0-32"/0-800mm	1030	150	30	10	25
0-40"/0-1000mm	1230	150	30	10	25

Range	L	a	b	d	e	f
Inch/Metric	mm	mm	mm	mm	mm	mm
0-12"/0-300	470	90	56	20	5	18
0-20"/0-500	680	150	56	24	10	25
0-32"/0-800	1030	150	67	30	10	25
0-40"/0-1000	1230	150	67	30	10	25



Ultra Light Heavy Duty Digital Calipers _SYLVAC SYSTEM 312 Series



312-20-4

FEATURES

- Resolution: .0005" / 0.01mm
- Lightweight design
- Optimum guidance and sliding characteristics due to double Vee guides.
- Stainless steel jaws, precision ground.
- Inch / Metric conversion

STANDARD ACCESSORIES

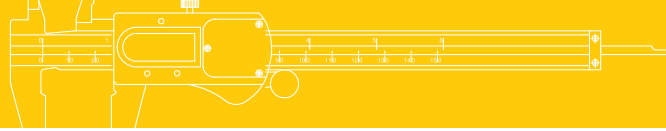
- Battery
- Warranty card, Instruction manual, Calibration certificate



312-12-0

SPECIFICATIONS

Inch	Metric						
Range	Range	Accuracy	Jaw Length	Internal Jaw	Power	Remark	Code No.
With Upper Jaws							
0-12"	0-300mm	± 0.04mm	90mm	10mm	LR44 1.5V	-	312-12-0
0-20"	0-500mm	± 0.05mm	90mm	10mm	LR44 1.5V	-	312-20-0
0-32"	0-800mm	± 0.06mm	90mm	10mm	LR44 1.5V	-	312-32-0
Without Upper Jaws							
0-40"	0-1000mm	± 0.06mm	150mm	20mm	CR2032 3V	Sylvac Electronics	312-40-2
0-60"	0-1500mm	± 0.07mm	150mm	20mm	CR2032 3V	Sylvac Electronics	312-60-2
0-80"	0-2000mm	± 0.14mm	150mm	20mm	CR2032 3V	Sylvac Electronics	312-80-2
0-120"	0-3000mm	± 0.18mm	150mm	20mm	CR2032 3V	Sylvac Electronics	312-20-4



Ultra Light Digital Universal Depth Gauges _SYLVAC SYSTEM 312 Series



FEATURES

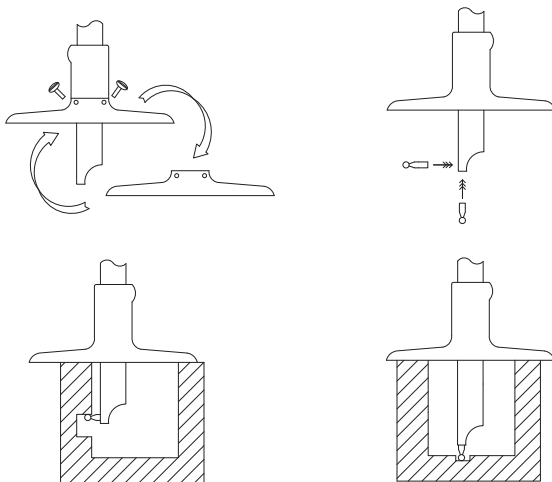
- Resolution: .0005" / 0.01mm
- Lightweight design
- Easy to read display. Optimum sliding characteristics are ensured by double Vee guides. Measurement head of hard-coated Aluminium with two tapped holes at 90° (M2.5) to take the measuring tips.
- Inch / Metric conversion
- Power: LR44 1.5V Battery

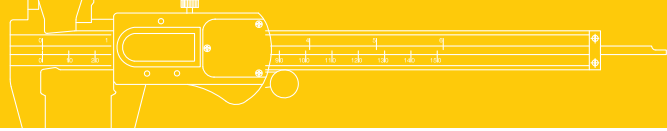
STANDARD ACCESSORIES

- Battery, Base (Each one of 150mm, 300mm, 450mm), Φ 2mm Contact Point
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch	Metric		
Range	Range	Accuracy	Code No.
0-12"	0-300mm	\pm 0.04mm	312-12-6
0-20"	0-500mm	\pm 0.05mm	312-20-6
0-32"	0-800mm	\pm 0.06mm	312-32-6





ABS Digital Calipers for Outside/Inside Grooves

309 Series



309-06-3



309-06-4

FEATURES

- Resolution: .0005" / 0.01mm
- Inch / Metric conversion
- Zero-setting at any position for incremental measurement
- ABS system delivery reliable measurement
- Preset function
- Automatic off to maximize battery life
- Cable data output: 900-05-4 / 5
- Wireless data output:
Receiver Device: 901-00-4 / 6
Transmitting Device: 901-00-3

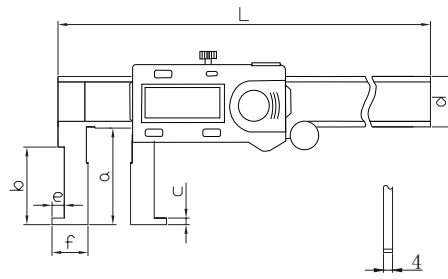
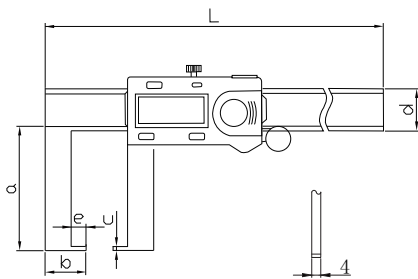
STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

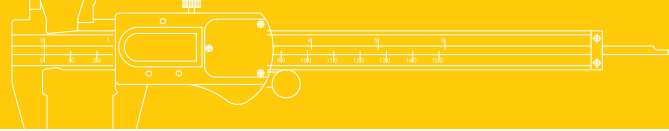
Inch			Metric			Code No.
Range	Resolution	Accuracy	Range	Resolution	Accuracy	
Outside groove						
0-6"	.0005"	± .001"	0-150mm	0.01mm	± 0.03mm	309-06-3
0-8"	.0005"	± .0015"	0-200mm	0.01mm	± 0.04mm	309-08-3
0-12"	.0005"	± .0015"	0-300mm	0.01mm	± 0.04mm	309-12-3
Inside groove						
0.8-6"	.0005"	± .001"	20-150mm	0.01mm	± 0.03mm	309-06-4
1-8"	.0005"	± .0015"	25-200mm	0.01mm	± 0.04mm	309-08-4
1.2-12"	.0005"	± .002"	30-300mm	0.01mm	± 0.04mm	309-12-4

Dimension



Range	L	a	b	c	d	e
Inch/Metric	mm	mm	mm	mm	mm	mm
0-6"/0-150mm	250	40	15	1	16	5
0-8"/0-200mm	300	50	19	1	16	7
0-12"/0-300mm	405	60	21	2	16	10

Range	L	a	b	c	d	e	f
Inch/Metric	mm	mm	mm	mm	mm	mm	mm
.8-6"/20-150mm	235	36	29	1	16	4	10
1.0-8"/25-200mm	287	46	40	1.5	16	5	12.5
1.2-12"/30-300mm	390	56	48	1.5	16	5	15

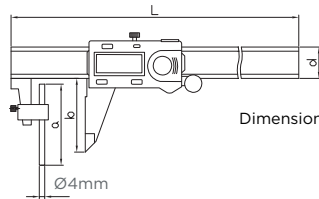


ABS Digital Tube Calipers

316 Series



316-06-2



Dimension

SPECIFICATIONS

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

FEATURES

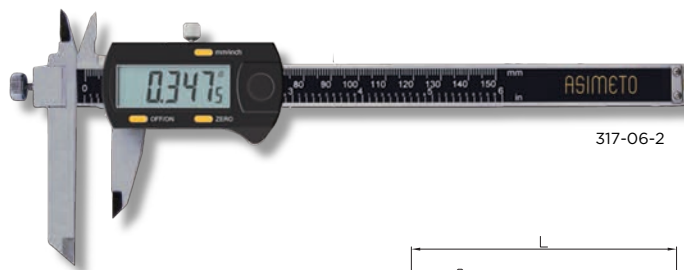
- Resolution: .0005" / 0.01mm
- The design incorporates a cylindrical stationary jaw on the beam with a normal jaw on the slider and is used for the measurement of tubular wall thicknesses
- Inch / Metric conversion
- Zero-setting at any position
- ABS system delivery reliable measurement
- Cable data output: 900-05-4 / 5
- Wireless data output:
Transmitting Device : 901-00-4 / 6
Receiver Device: 901-00-3

STANDARD ACCESSORIES

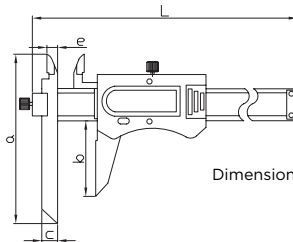
- Battery
- Warranty card, Instruction manual, Calibration certificate

Digital Calipers With Adjustable Measuring Jaw

317 Series



317-06-2



Dimension

SPECIFICATIONS

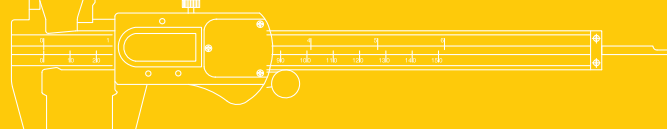
Inch		Metric		L	a	b	c	d	e	
Range	Accuracy	Range	Accuracy	mm	mm	mm	mm	mm	mm	Code No.
0-6"	± .0015"	0-150mm	± 0.03mm	239	110	40	10	16	7	317-06-2
0-8"	± .0015"	0-200mm	± 0.03mm	289	120	50	10	16	7	317-08-2
0-12"	± .002"	0-300mm	± 0.04mm	389	130	60	10	16	7	317-12-2

FEATURES

- Resolution: .0005" / 0.01mm
- The stationary jaw on the beam is designed with vertical movement for the purpose of measuring various steps of different heights
- Inch/Metric conversion
- Zero-setting at any position

STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

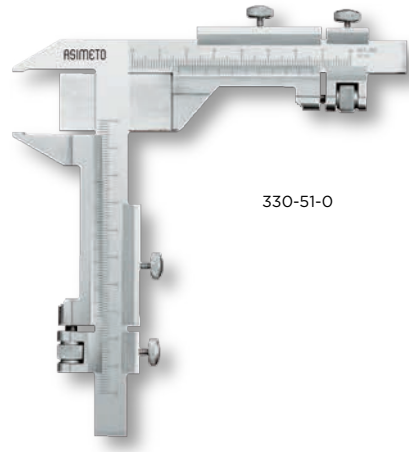


Gear Tooth Calipers

328 / 330 Series



328-06-0



330-51-0

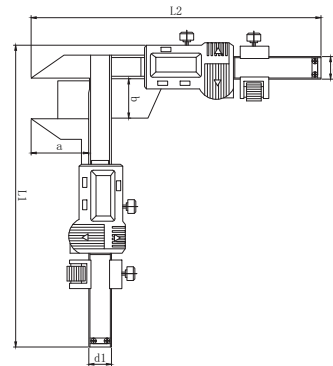
FEATURES

- Resolution:
Digital models: .0005" / 0.01mm
Vernier models: 0.02mm
- Measures the chordal gear tooth thickness at the chordal addendum (pitch circle)
- Inch / Metric conversion
- Zero-setting at any position

STANDARD ACCESSORIES

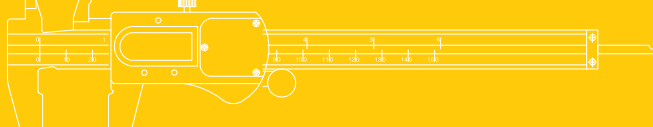
- Battery
- Warranty card, Instruction manual, Calibration certificate

Dimension



SPECIFICATIONS

Inch	Metric	Accuracy	L1	L2	a	b	d1	d2	Code No.
Range	Range	mm	mm	mm	mm	mm	mm	mm	
M0.04-1"	M1-25	± 0.03	156	156.5	30.5	21	13	13	328-06-0
M0.2-2"	M5-50	± 0.03	210	185.5	50.5	50.5	13	13	328-06-2
M0.04-1"	M1-25	± 0.03	166	166	30.5	21	13	13	330-51-0
M0.2-2"	M5-50	± 0.03	220	195	50.5	50.5	13	13	330-52-0



Digital Thickness Gauges

325 Series



325-32-0



325-30-0



325-50-0

FEATURES

- Resolution: .0005" / 0.01mm
- Inch/Metric conversion
- For measuring the thickness of paper, film, wire, sheet metal, jewelry, leather and similar materials
- Light weight, easy to operate

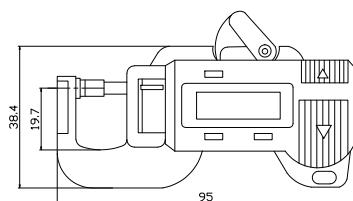
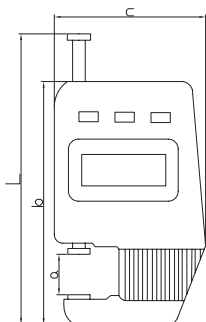
STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

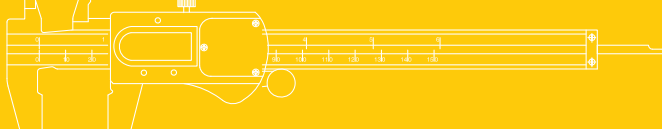
SPECIFICATIONS

Inch			Metric			Code No.
Range	Resolution	Accuracy	Range	Resolution	Accuracy	
Horizontal						
0-.5"	.0005"	± .0015"	0-12mm	0.01mm	± 0.03mm	325-30-0
0-1"	.0005"	± .0015"	0-25mm	0.01mm	± 0.04mm	325-32-0
Vertical						
0-.6"	.0005"	± .0015"	0-15mm	0.01mm	± 0.03mm	325-50-0
0-1"	.0005"	± .0015"	0-25mm	0.01mm	± 0.04mm	325-52-0

Dimension



Range	L	a	b	c
Inch/Metric	mm	mm	mm	mm
0-0.6"/0-15mm	102.6	15.5	83.6	51
0-1"/0-25mm	132.8	26	104	61

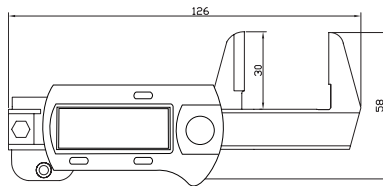


Digital Gauge With Single Wide Measuring Face

325 Series



325-36-2



Dimension

FEATURES

- Resolution: .0005" / 0.01mm
- Zero-setting at any position
- Inch / Metric conversion
- Easy operation and normally used for the measurement of small work pieces

STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

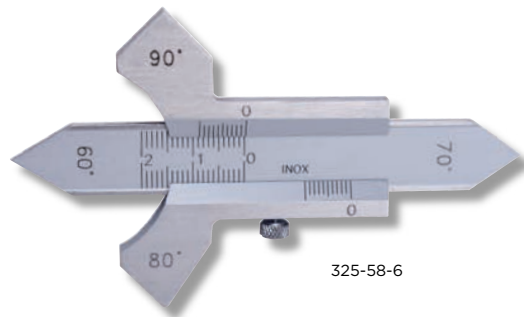
Inch		Metric		Code No.
Range	Accuracy	Range	Accuracy	
0-1.2"	.0015"	0-30mm	±0.03mm	325-36-2

Welding Fillet Gauges

325 Series



325-05-6



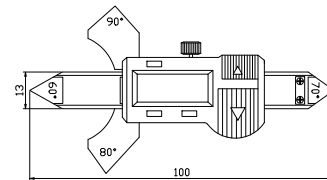
325-58-6

FEATURES

- Resolution:
 - Digital models: .0005" / 0.01mm
 - Mechanical Models: 0.1mm
- Measures the thickness of a weld along the intersecting vector of two right angle welded objects
- Inch / Metric conversion

STANDARD ACCESSORIES

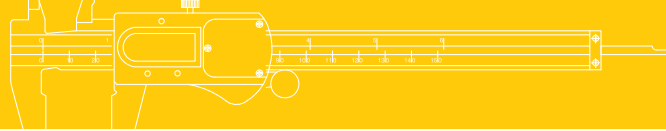
- Battery (Digital models)
- Warranty card, Instruction manual



Dimension

SPECIFICATIONS

Inch		Metric		Code No.
Range	Accuracy	Range	Accuracy	
Digital models				
0-.5"	±.0015"	0-12.5mm	±0.03mm	325-05-6
0-.8"	±.0015"	0-20mm	±0.03mm	325-08-6
Mechanical models				
-	-	0-20mm	±0.3mm	325-58-6

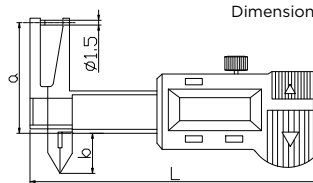


Mini-type 3-purpose Digital Calipers

305 Series



305-40-0



FEATURES

- Resolution: .0005" / 0.01mm
- For measuring the dimension of small workpiece
- Inch/Metric conversion
- Zero-setting at any position

STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch			Metric			L	a	b	Code No.
Range	Resolution	Accuracy	Range	Resolution	Accuracy				
0-.6"	.0005"	± .0015"	0-15mm	0.01mm	± 0.03mm	77mm	33.2mm	12.5mm	305-40-0
0-1"	.0005"	± .0015"	0-25mm	0.01mm	± 0.03mm	87mm	33.2mm	12.5mm	305-42-0

Hook Type Digital Calipers

325 Series



325-05-0

FEATURES

- Resolution: .0005" / 0.01mm
- Measures the inside groove width and position of groove
- Inch/Metric conversion
- Zero-setting at any position

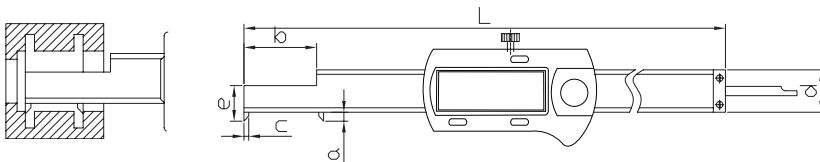
STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

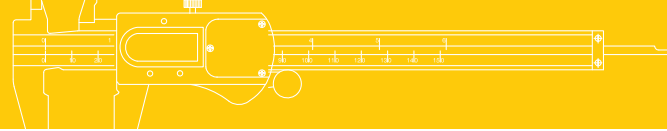
SPECIFICATIONS

Inch			Metric			Code No.
Range	Resolution	Accuracy	Range	Resolution	Accuracy	
.12-5"	.0005"	±.001"	3-125mm	0.01mm	±0.03mm	325-05-2
.12-6"	.0005"	±.001"	3-150mm	0.01mm	±0.03mm	325-06-2
.12-8"	.0005"	±.001"	3-200mm	0.01mm	±0.03mm	325-08-2
.16-12"	.0005"	±.0015"	4-300mm	0.01mm	±0.04mm	325-12-2

Dimension



Range	L	a	b	c	d	e
Inch/Metric	mm	mm	mm	mm	mm	mm
.12-6"/3-125mm	235	4	24	3	12.5	12
.12-8"/3-200mm	310	4	24	3	12.5	12
.16-12"/4-300mm	466	5	86	4	15	14



Digital Scales

326 Series

FEATURES

- Resolution: .0005" / 0.01mm
- Inch / Metric conversion
- The displayed readings are available in either absolute (measurement to the zero position) or to an incremental (temporary) zero set position at any position along the scale. Either measurement mode can be selected by pressing the ZERO / ABS button
- Units are supplied with the necessary mounting brackets required for most popular installations
- Models are available with horizontal or vertical numeric displays
- Cable data output: 900-05-4 / 5
- Wireless data output:
Receiver Device: 901-00-4 / 6
Transmitting Device: 901-00-3



326-06-9

STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual

SPECIFICATIONS

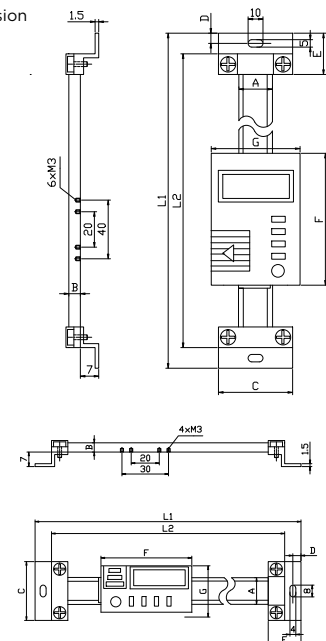
Inch		Metric		Horizontal	Vertical
Range	Accuracy	Range	Accuracy	Code No.	Code No.
4"	± .001"	100mm	± 0.02mm	326-04-9	326-04-8
6"	± .0015"	150mm	± 0.02mm	326-06-9	326-06-8
8"	± .0015"	200mm	± 0.03mm	326-08-9	326-08-8
12"	± .0015"	300mm	± 0.04mm	326-12-9	326-12-8
18"	± .002"	450mm	± 0.05mm	326-18-9	326-18-8
20"	± .003"	500mm	± 0.05mm	326-20-9	326-20-8
24"	± .003"	600mm	± 0.06mm	326-24-9	326-24-8
32"	± .004"	800mm	± 0.06mm	326-32-9	326-32-8
40"	± .004"	1000mm	± 0.07mm	326-40-9	326-40-8

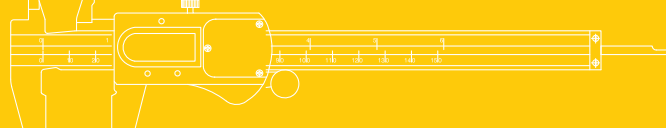


326-06-8

Range	A	B	C	D	E	F	G	L1	L2
	mm	mm	mm	mm	mm	mm	mm	mm	mm
Horizontal									
4"/100mm	16	4	36	6	24	58	34	209	185
6"/150mm	16	4	36	6	24	58	34	259	235
8"/200mm	16	4	36	6	24	58	34	310	286
12"/300mm	16	4	36	6	24	58	34	444	420
18"/450mm	16	4	36	6	24	58	34	-	-
24"/600mm	24	5.5	45	8	32	92	40	782	750
32"/800mm	24	5.5	45	8	32	92	40	980	950
40"/1000mm	31	10.5	60	10	40	124.5	54	1240	1200
Vertical									
4"/100mm	20	4	40	6	24	70	40	244	220
6"/150mm	20	4	40	6	24	70	40	294	270
8"/200mm	20	4	40	6	24	70	40	344	320
12"/300mm	20	4	40	6	24	70	40	444	420
18"/450mm	20	4	40	6	24	70	40	-	-
24"/600mm	24	5.5	45	8	32	92	40	782	750
32"/800mm	24	5.5	45	8	32	92	40	982	950
40"/1000mm	31	10.5	60	10	40	124.5	54	1240	1200

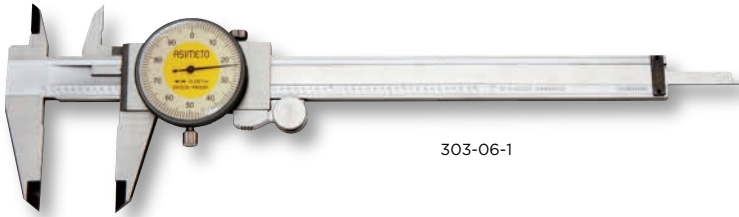
Dimension



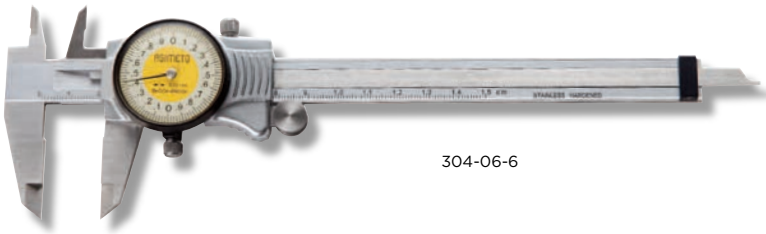


Dial Calipers

303 / 304 Series



303-06-1



304-06-6

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
- Thumb wheel included

Aluminum models

- 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

STANDARD ACCESSORIES

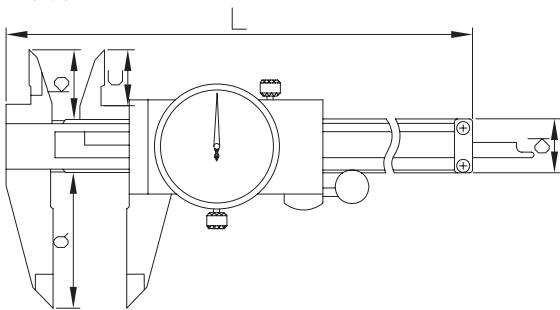
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

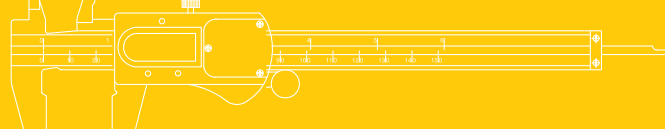
Inch		
Range	Accuracy	Code No.
Standard models		
0-6"	± .001"	303-06-1
0-8"	± .0015"	303-08-1
0-12"	± .0015"	303-12-1
Aluminum dial housing models		
0-6"	± .001"	304-06-5
0-8"	± .0015"	304-08-5
0-12"	± .0015"	304-12-5

Metric		Grad.: 0.01mm	Grad.: 0.02mm
Range	Accuracy	Code No.	Code No.
Standard models			
0-150mm	± 0.03mm	P303-06-0	303-06-2
0-200mm	± 0.03mm	P303-08-0	303-08-2
0-300mm	± 0.04mm	P303-12-0	303-12-2
Aluminum dial housing models			
0-150mm	± 0.03mm	-	304-06-6
0-200mm	± 0.03mm	-	304-08-6
0-300mm	± 0.04mm	-	304-12-6

Dimension



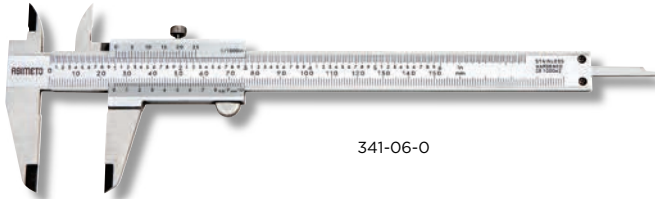
Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-6"/0-150mm	234	40	21	16	16
0-8"/0-200mm	290	50	23.5	16	17
0-12"/0-300mm	393	64	24.5	20	17



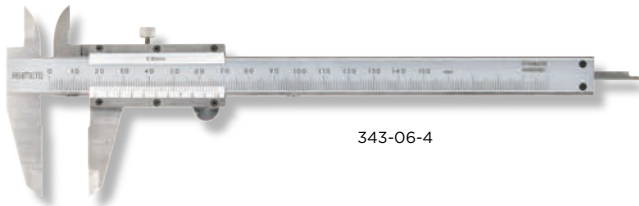
Vernier Calipers

341 / 343 Series

Plain



341-06-0



343-06-4

FEATURES

- Graduation :
Inch: .001"
Metric: 0.02mm or 0.05mm
- Various models available with an assortment of dual scales
- Measuring surfaces allow for the measurement of external diameters, internal diameters, depths and steps
- The upper and lower scales on the slider are angled to reduce parallax error
- Stainless steel with surface hardened measuring faces
- Models are available with the slider operation in either plain, thumb clamp, fine adjustment

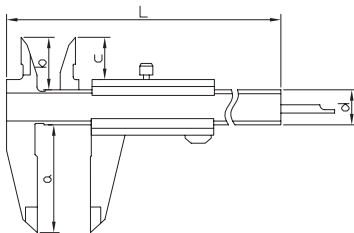
STANDARD ACCESSORIES

- Warranty card, Instruction manual, Calibration certificate

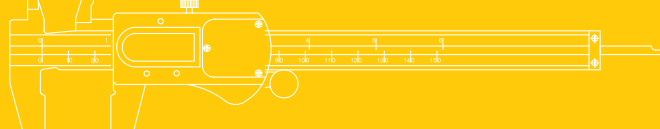
SPECIFICATIONS

Range	Graduation	Range	Graduation	Accuracy	Note	Code No.
Lower	Lower	Upper	Upper			
Mono Block						
0-6"	.001"	0-6"	1/128"	± .001"	upper lock	341-06-1
0-8"	.001"	0-8"	1/128"	± .001"	upper lock	341-08-1
0-150mm	0.05mm	0-6"	1/128"	± 0.05mm	upper lock	341-06-0
0-150mm	0.05mm	0-6"	1/128"	± 0.05mm	lower locking screw	341-66-0
0-200mm	0.05mm	0-8"	1/128"	± 0.05mm	upper lock	341-08-0
0-300mm	0.05mm	0-12"	1/128"	± 0.05mm	upper lock	341-12-0
0-100mm	0.02mm	0-4"	0.001"	± 0.02mm	upper lock	341-04-4
0-150mm	0.02mm	0-6"	0.001"	± 0.03mm	upper lock	341-06-4
0-200mm	0.02mm	0-8"	0.001"	± 0.03mm	upper lock	341-08-4
0-300mm	0.02mm	0-12"	0.001"	± 0.04mm	upper lock	341-12-4
Open Block						
0-100mm	0.02mm	-	-	± 0.02mm	upper lock	343-04-4
0-150mm	0.02mm	-	-	± 0.03mm	upper lock	343-06-4
0-200mm	0.02mm	-	-	± 0.03mm	upper lock	343-08-4
0-300mm	0.02mm	-	-	± 0.04mm	upper lock	343-12-4

Dimension



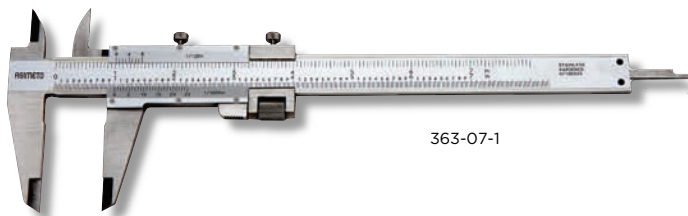
Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-4"/0-100mm	175	25	19	13.5	16
0-6"/0-150mm	235	40	21	16.5	16
0-8"/0-200mm	297	50	23.5	19	16
0-12"/0-300mm	410	64	27	22	18



Vernier Calipers

363 Series

Fine adjustment

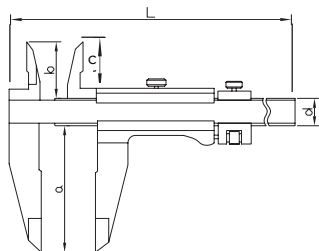


363-07-1

SPECIFICATIONS

Range	Graduation	Range	Graduation	Accuracy	Note	Open Block
Lower	Lower	Upper	Upper			Code No.
Inch						
0-5"	.001"	0-5"	1/128"	± .001"	upper lock	363-05-1
0-7"	.001"	0-7"	1/128"	± .0015"	upper lock	363-07-1
0-11"	.001"	0-11"	1/128"	± .0015"	upper lock	363-11-1
Metric						
0-130mm	0.02mm	0-5"	0.001"	± 0.03mm	upper lock	363-05-6
0-180mm	0.02mm	0-7"	0.001"	± 0.03mm	upper lock	363-07-6
0-280mm	0.02mm	0-11"	0.001"	± 0.04mm	upper lock	363-11-6

Dimension

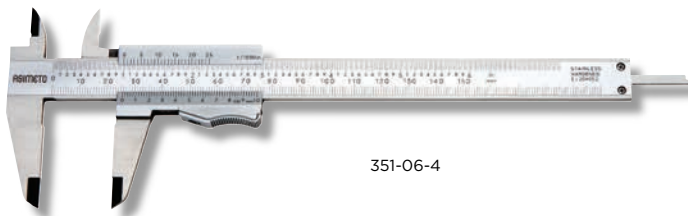


Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-5.2"/0-130mm	228	40	21	16.5	16
0-7.2"/0-180mm	290	50	23.5	19	17
0-11.2"/0-280mm	410	64	27.5	22	20

Vernier Calipers

351 Series

Thumb Clamp

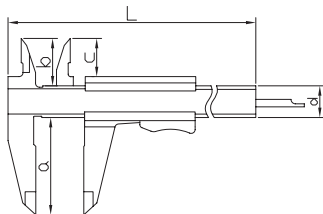


351-06-4

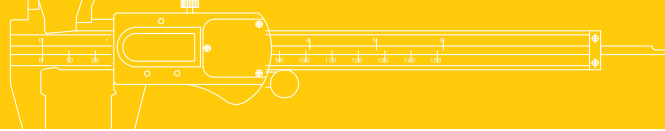
SPECIFICATIONS

Range	Graduation	Range	Graduation	Accuracy	Note	Code No.
Lower	Lower	Upper	Upper			
0-6"	.001"	0-6"	1/128"	± .001"	-	351-06-1
0-8"	.001"	0-8"	1/128"	± .0015"	-	351-08-1
0-150mm	0.05mm	0-6"	1/128"	± 0.05mm	-	351-06-0
0-200mm	0.05mm	0-8"	1/128"	± 0.05mm	-	351-08-0
0-150mm	0.02mm	0-6"	0.001"	± 0.03mm	-	351-06-4
0-200mm	0.02mm	0-8"	0.001"	± 0.03mm	-	351-08-4

Dimension

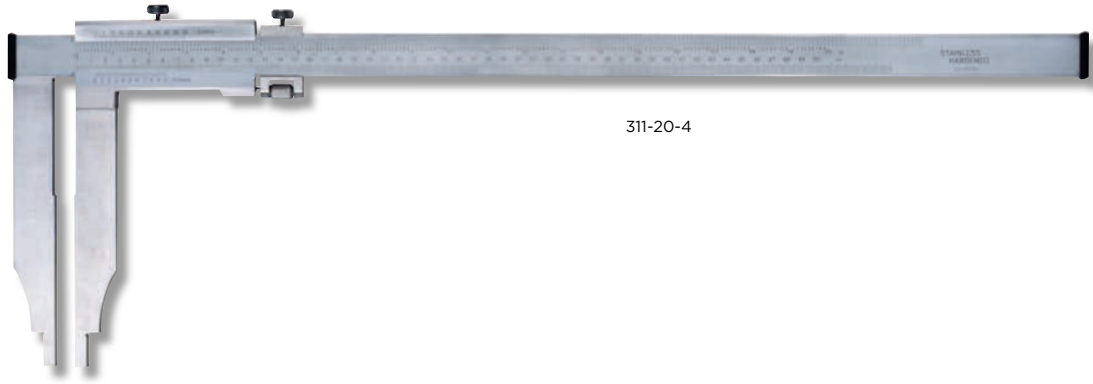


Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-6"/0-150mm	228	40	21	16.5	16
0-8"/0-200mm	290	50	23.5	19	17



Long Jaw Vernier Calipers (Mono block)

311 Series



311-20-4

FEATURES

- Graduation :
Inch: .001"
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
- Minimum internal diameter measurement capability of:
10mm for 300mm/12" range
20mm for over 300mm/12" range

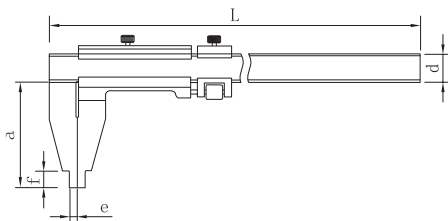
STANDARD ACCESSORIES

- Warranty card, Instruction manual,
Calibration certificate

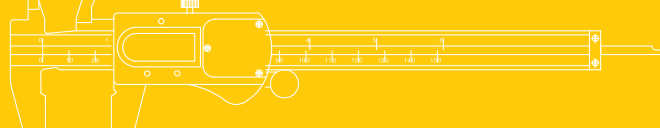
SPECIFICATIONS

Range	Graduation	Range	Graduation	Accuracy	Jaw Length	Code No.
Lower	Lower	Upper	Upper			
0-12"	.001"	0-300mm	0.02mm	± .0015"	90mm	311-12-3
0-20"	.001"	0-500mm	0.02mm	± .0020"	200mm	311-20-3
0-30"	.001"	0-750mm	0.02mm	± .0020"	200mm	311-30-3
0-40"	.001"	0-1000mm	0.02mm	± .0030"	200mm	311-40-3
0-300mm	0.02mm	0-12"	.001"	± 0.04mm	90mm	311-12-4
0-500mm	0.02mm	0-20"	.001"	± 0.05mm	200mm	311-20-4
0-750mm	0.02mm	0-30"	.001"	± 0.07mm	200mm	311-30-4
0-1000mm	0.02mm	0-40"	.001"	± 0.07mm	200mm	311-40-4
0-300mm	0.05mm	0-12"	1/128"	± 0.05mm	90mm	311-12-6
0-500mm	0.05mm	0-20"	1/128"	± 0.08mm	200mm	311-20-6
0-750mm	0.05mm	0-30"	1/128"	± 0.10mm	200mm	311-30-6
0-1000mm	0.05mm	0-40"	1/128"	± 0.10mm	200mm	311-40-6

Dimension



Range	L	a	d	e	f
Inch/Metric	mm	mm	mm	mm	mm
0-12" / 0-300mm	450	90	20	5	12
0-20" / 0-500mm	735	200	31	10	24
0-30" / 0-750mm	985	200	31	10	24
0-40" / 0-1000mm	1235	200	31	10	24



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
- Minimum internal diameter measurement capability of:
10mm for 300mm/12" range
20mm for over 450mm/18" range

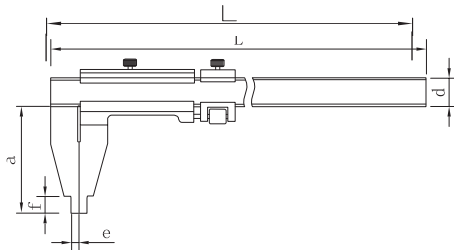
STANDARD ACCESSORIES

- Warranty card, Instruction manual, Calibration certificate

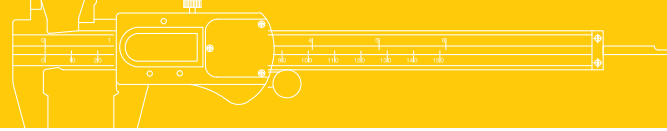
SPECIFICATIONS

Range	Graduation	Range	Graduation	Accuracy	Jaw Length	Code No.
Lower	Lower	Upper	Upper			
0-12"	.001"	0-300mm	0.02mm	±0.015"	90mm	313-12-3
0-20"	.001"	0-500mm	0.02mm	±0.020"	200mm	313-20-3
0-30"	.001"	0-750mm	0.02mm	±0.020"	200mm	313-30-3
0-40"	.001"	0-1000mm	0.02mm	±0.030"	200mm	313-40-3
0-300mm	0.02mm	0-12"	.001"	±0.04mm	90mm	313-12-4
0-500mm	0.02mm	0-20"	.001"	±0.05mm	200mm	313-20-4
0-750mm	0.02mm	0-30"	.001"	±0.07mm	200mm	313-30-4
0-1000mm	0.02mm	0-40"	.001"	±0.07mm	200mm	313-40-4

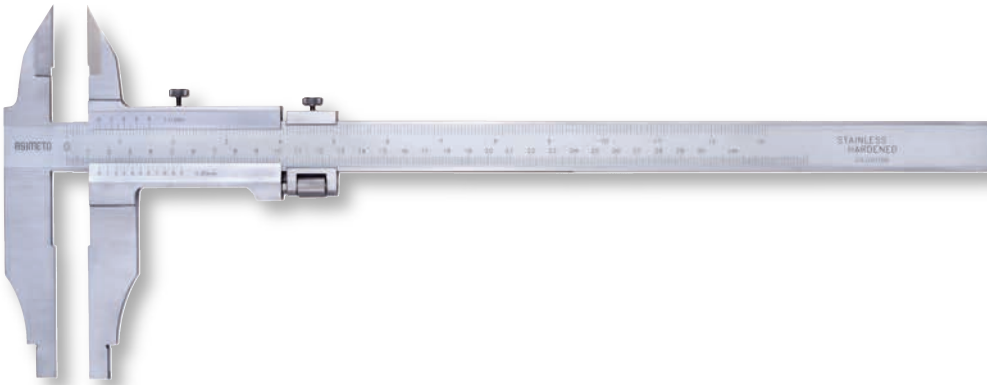
Dimension



Range	L	a	d	e	f
Inch/Metric	mm	mm	mm	mm	mm
0-12" / 0-300mm	450	90	20	5	12
0-20" / 0-500mm	735	200	30	10	23
0-30" / 0-750mm	985	200	32	10	25
0-40" / 0-1000mm	1235	200	32	10	25



Heavy Duty Vernier Calipers With Upper Knife-edge (Mono block) 302 Series



302-12-2

STANDARD ACCESSORIES

- Warranty card, Instruction manual, Calibration certificate

FEATURES

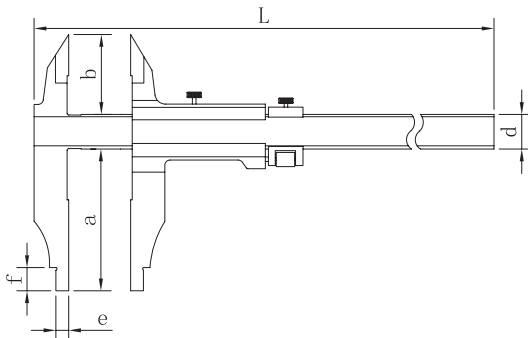
- Graduation:
Inch: .001"
Metric: 0.02mm or 0.05mm
- Stainless steel
- With upper knife-edge for external diameter measurement
- Designed with fine adjustment to allow precise movement of the slider
- Models available with an assortment of Metric/Inch scale configurations
- Internal measurement jaws are rounded to provide accurate measurement of internal diameters with minimum internal measuring capability of 20mm

SPECIFICATIONS

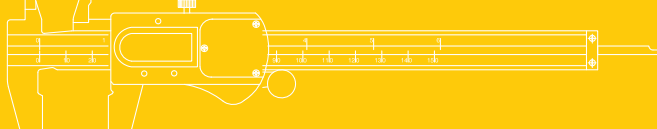
Range	Graduation	Range	Graduation	Accuracy	Jaw Length	Code No.
Lower	Lower	Upper	Upper			
0-12"	.001"	0-300mm	0.02mm	± .0015"	56mm+100mm	302-12-1
0-20"	.001"	0-500mm	0.02mm	± .0020"	67mm+150mm	302-20-1
0-32"	.001"	0-800mm	0.02mm	± .0020"	67mm+150mm	302-32-1
0-40"	.001"	0-1000mm	0.02mm	± .0030"	67mm+150mm	302-40-1
0-300mm	0.02mm	0-12"	.001"	± 0.04mm	56mm+100mm	302-12-0
0-500mm	0.02mm	0-20"	.001"	± 0.05mm	67mm+150mm	302-20-0
0-800mm	0.02mm	0-32"	.001"	± 0.07mm	67mm+150mm	302-32-0
0-1000mm	0.02mm	0-40"	.001"	± 0.07mm	67mm+150mm	302-40-0
0-300mm	0.05mm	0-12"	1/128"	± 0.05mm	56mm+100mm	302-12-2
0-500mm	0.05mm	0-20"	1/128"	± 0.08mm	67mm+150mm	302-20-2
0-800mm	0.05mm	0-32"	1/128"	± 0.10mm	67mm+150mm	302-32-2
0-1000mm	0.05mm	0-40"	1/128"	± 0.10mm	67mm+150mm	302-40-2

Remark: Special Jaw Length are upon requested

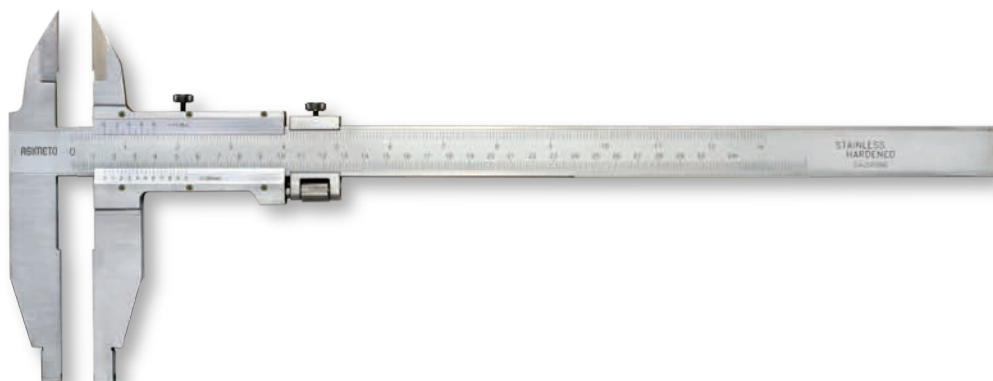
Dimension



Range	L	a	b	d	e	f
Inch/Metric	mm	mm	mm	mm	mm	mm
0-12"/0-300mm	470	100	56	24	10	15
0-20"/0-500mm	735	150	67	31	10	24
0-32"/0-800mm	1035	150	67	31	10	24



Heavy Duty Vernier Calipers With Upper Knife-edge (Open block) 302 Series



302-12-8

STANDARD ACCESSORIES

- Warranty card, Instruction manual, Calibration certificate

FEATURES

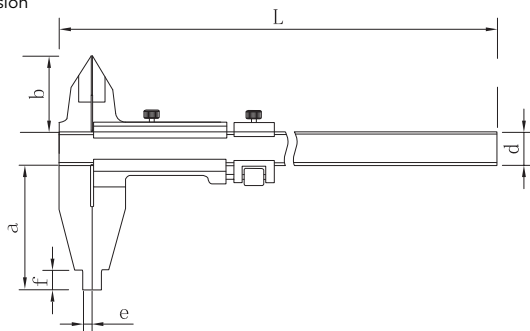
- Graduation:
Inch: .001"
Metric: 0.02mm
- With upper knife-edge for external diameter measurement
- Designed with fine adjustment to allow precise movement of the slider
- Stainless steel
- Models available with an assortment of Metric/Inch scale configurations
- Internal measurement jaws are rounded to provide accurate measurement of internal diameters with minimum internal measuring capability of 20mm

SPECIFICATIONS

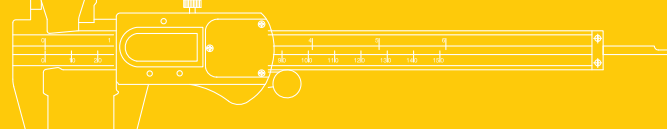
Range	Graduation	Range	Graduation	Accuracy	Jaw Length	Code No.
Lower	Lower	Upper	Upper			
0-12"	.001"	0-300mm	0.02mm	± .0015"	36.5mm+90mm	302-12-9
0-20"	.001"	0-500mm	0.02mm	± .0020"	55mm+150mm	302-20-9
0-32"	.001"	0-800mm	0.02mm	± .0020"	64mm+150mm	302-32-9
0-40"	.001"	0-1000mm	0.02mm	± .0030"	64mm+150mm	302-40-9
0-300mm	0.02mm	0-12"	.001"	± 0.04mm	36.5mm+90mm	302-12-8
0-500mm	0.02mm	0-20"	.001"	± 0.05mm	55mm+150mm	302-20-8
0-800mm	0.02mm	0-32"	.001"	± 0.07mm	64mm+150mm	302-32-8
0-1000mm	0.02mm	0-40"	.001"	± 0.07mm	64mm+150mm	302-40-8

Remark: Special Jaw Length are upon requested

Dimension

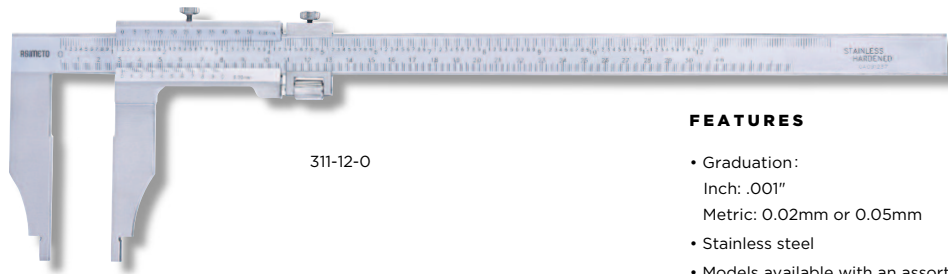


Range	L	a	b	d	e	f
Inch/Metric	mm	mm	mm	mm	mm	mm
0-12"/0-300mm	470	90	36.5	24	10	15
0-20"/0-500mm	735	150	55	31	10	24
0-32"/0-800mm	1035	150	64	31	10	24



Heavy Duty Vernier Calipers (Mono block)

311 Series



311-12-0

FEATURES

- Graduation:
Inch: .001"
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
- Minimum internal diameter measurement capability of:
10mm for 300mm/12" range
20mm for over 450mm/18" range

STANDARD ACCESSORIES

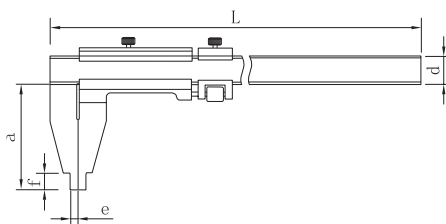
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

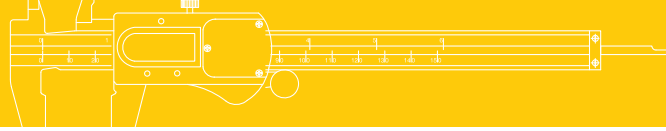
Range	Graduation	Range	Graduation	Accuracy	Jaw Length	Code No.
Lower	Lower	Upper	Upper			
0-12"	.001"	0-300mm	0.02mm	± .0015"	60mm	311-12-1
0-18"	.001"	0-450mm	0.02mm	± .0020"	100mm	311-18-1
0-20"	.001"	0-500mm	0.02mm	± .0020"	100mm	311-20-1
0-24"	.001"	0-600mm	0.02mm	± .0020"	100mm	311-24-1
0-32"	.001"	0-800mm	0.02mm	± .0020"	150mm	311-32-1
0-40"	.001"	0-1000mm	0.02mm	± .0030"	150mm	311-40-1
0-60"	.001"	0-1500mm	0.02mm	± .0040"	200mm	311-60-1
0-80"	.001"	0-2000mm	0.02mm	± .0050"	200mm	311-80-1
0-300mm	0.02mm	0-12"	.001"	± 0.04mm	75mm	311-12-0
0-450mm	0.02mm	0-18"	.001"	± 0.05mm	100mm	311-18-0
0-500mm	0.02mm	0-20"	.001"	± 0.05mm	100mm	311-20-0
0-600mm	0.02mm	0-24"	.001"	± 0.05mm	100mm	311-24-0
0-800mm	0.02mm	0-32"	.001"	± 0.07mm	150mm	311-32-0
0-1000mm	0.02mm	0-40"	.001"	± 0.07mm	150mm	311-40-0
0-1500mm	0.02mm	0-60"	.001"	± 0.11mm	200mm	311-60-0
0-2000mm	0.02mm	0-80"	.001"	± 0.14mm	200mm	311-80-0
0-300mm	0.05mm	0-12"	1/128"	± 0.05mm	75mm	311-12-2
0-450mm	0.05mm	0-18"	1/128"	± 0.08mm	100mm	311-18-2
0-500mm	0.05mm	0-20"	1/128"	± 0.08mm	100mm	311-20-2
0-600mm	0.05mm	0-24"	1/128"	± 0.10mm	100mm	311-24-2
0-800mm	0.05mm	0-32"	1/128"	± 0.10mm	150mm	311-32-2
0-1000mm	0.05mm	0-40"	1/128"	± 0.10mm	150mm	311-40-2
0-1500mm	0.05mm	0-60"	1/128"	± 0.15mm	200mm	311-60-2
0-2000mm	0.05mm	0-80"	1/128"	± 0.20mm	200mm	311-80-2

Remark: Special Jaw Length are upon requested

Dimension

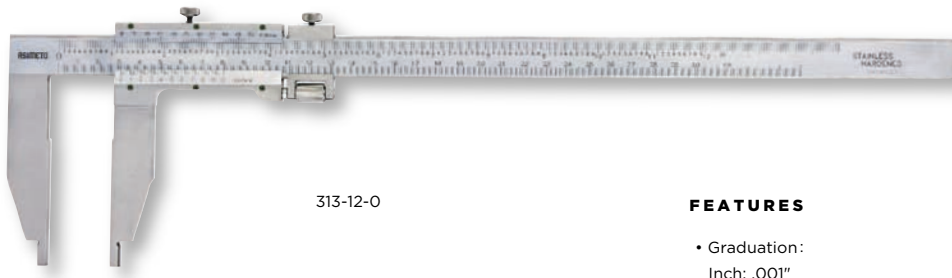


Range	L	a	d	e	f
Inch/Metric	mm	mm	mm	mm	mm
0-12" / 0-300mm	450	75	20	5	12
0-18" / 0-450mm	685	100	24	10	15
0-20" / 0-500mm	735	100	24	10	15
0-24" / 0-600mm	835	100	31	10	24
0-32" / 0-800mm	1035	150	31	10	24
0-40" / 0-1000mm	1235	150	31	10	24
0-60" / 0-1500mm	1820	200	42	10	24
0-80" / 0-2000mm	2270	200	42	10	24



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
- Minimum internal diameter measurement capability of:
10mm for 300mm/12" range
20mm for over 450mm/18" range

STANDARD ACCESSORIES

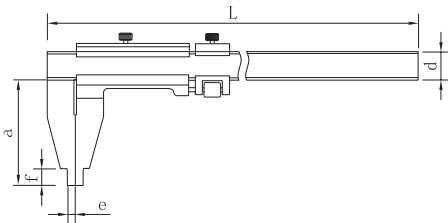
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

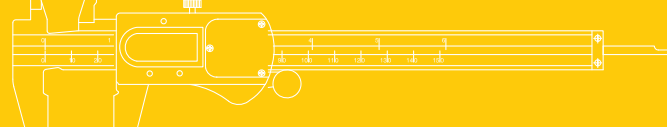
Range	Graduation	Range	Graduation	Accuracy	Jaw Length	Code No.
Lower	Lower	Upper	Upper			
0-12"	.001"	0-300mm	0.02mm	± .0015"	60mm	313-12-1
0-18"	.001"	0-450mm	0.02mm	± .0020"	100mm	313-18-1
0-20"	.001"	0-500mm	0.02mm	± .0020"	100mm	313-20-1
0-24"	.001"	0-600mm	0.02mm	± .0020"	100mm	313-24-1
0-32"	.001"	0-800mm	0.02mm	± .0020"	150mm	313-32-1
0-40"	.001"	0-1000mm	0.02mm	± .0030"	150mm	313-40-1
0-60"	.001"	0-1500mm	0.02mm	± .0040"	200mm	313-60-1
0-80"	.001"	0-2000mm	0.02mm	± .0050"	200mm	313-80-1
0-300mm	0.02mm	0-12"	.001"	± 0.04mm	75mm	313-12-0
0-450mm	0.02mm	0-18"	.001"	± 0.05mm	100mm	313-18-0
0-500mm	0.02mm	0-20"	.001"	± 0.05mm	100mm	313-20-0
0-600mm	0.02mm	0-24"	.001"	± 0.05mm	100mm	313-24-0
0-800mm	0.02mm	0-32"	.001"	± 0.07mm	150mm	313-32-0
0-1000mm	0.02mm	0-40"	.001"	± 0.07mm	150mm	313-40-0
0-1500mm	0.02mm	0-60"	.001"	± 0.11mm	200mm	313-60-0
0-2000mm	0.02mm	0-80"	.001"	± 0.14mm	200mm	313-80-0

Remark: Special Jaw Length are upon requested

Dimension



Range	L	a	d	e	f
Inch/Metric	mm	mm	mm	mm	mm
0-12" / 0-300mm	450	60	20	5	12
0-18" / 0-450mm	685	100	24	10	15
0-20" / 0-500mm	735	100	24	10	15
0-24" / 0-600mm	835	100	31	10	24
0-32" / 0-800mm	1035	150	31	10	24
0-40" / 0-1000mm	1235	150	31	10	24
0-60" / 0-1500mm	1820	200	42	10	24
0-80" / 0-2000mm	2270	200	42	10	24



Circle Vernier Calipers

322 Series

FEATURES

- Graduation: 0.1mm
- With one-piece slider
- Made of Stainless Steel
- Hardened measuring face

STANDARD ACCESSORIES

- Warranty card

SPECIFICATIONS

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



322-72-0

T Form Marking Calipers

FEATURES

- Graduation: 0.05mm
- Made of Stainless Steel

STANDARD ACCESSORIES

- Warranty card

SPECIFICATIONS

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



322-51-0

Marking Calipers

FEATURES

- Graduation: 1/128" / 0.1mm
- Made of Stainless Steel

STANDARD ACCESSORIES

- Warranty card

SPECIFICATIONS

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



322-61-0

Measuring Gauges

FEATURES

- Graduation: 0.1mm
- Made with Stainless Steel

STANDARD ACCESSORIES

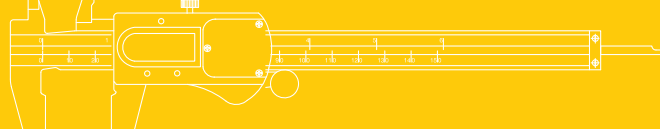
- Warranty card

SPECIFICATIONS

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



322-81-0



Internal Dial Caliper Gauges

403 Series

FEATURES

- Graduation: .001" / 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 0.06" diameter measuring tips.
- Revolution counter.
- Leg length 3-1/4".

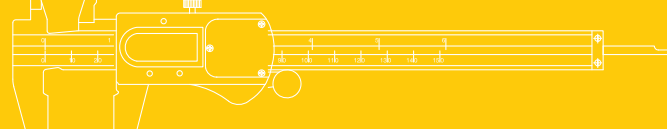
STANDARD ACCESSORIES

- S-wrench
- Warranty card, Calibration certificate



SPECIFICATIONS

Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Code No.	Code No.	Code No.	Code No.
0.375 - 1.375"	± .002"	10-35mm	± 0.05mm	403-31-1	403-31-0		
0.750 - 1.750"	± .002"	20-45mm	± 0.05mm	403-32-1	403-32-0		
1.125 - 2.125"	± .002"	30-55mm	± 0.05mm	403-33-1	403-33-0		
1.500 - 2.500"	± .002"	40-65mm	± 0.05mm	403-34-1	403-34-0		
1.875 - 2.875"	± .003"	50-75mm	± 0.08mm	403-35-1	403-35-0		
2.250 - 3.250"	± .003"	60-85mm	± 0.08mm	403-36-1	403-36-0		
2.875 - 3.875"	± .003"	75-100mm	± 0.08mm	403-37-1	403-37-0		
3.250 - 4.250"	± .004"	85-110mm	± 0.08mm	403-38-1	403-38-0		
-	-	95-120mm	± 0.1mm	-	403-39-0		
-	-	100-125mm	± 0.1mm	-	403-40-0		



Internal Caliper Gauges

400 / 403 Series



400-14-0



403-11-0

FEATURES

- Resolution:
Digital models: .0002" / 0.005mm; Dial models: .0005" / 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
- The digital model allows the display housing to be rotated $\pm 170^\circ$

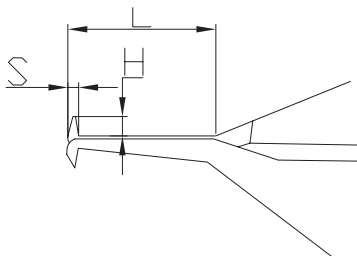
STANDARD ACCESSORIES

- Battery (Digital models)
- Warranty card, Instruction manual, Calibration certificate

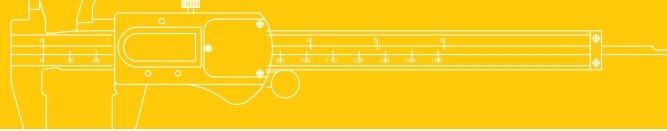
SPECIFICATIONS

Range	Arm Length	Tipped Length	Accuracy	Dial Models	Digital Models
				Code No.	Code No.
Inch					
.2-.6"	20mm	1.5mm	$\pm .0008"$	403-11-1	400-11-1
.4-.8"	25mm	3.0mm	$\pm .0008"$	403-12-1	400-12-1
.8-1.2"	30mm	6.5mm	$\pm .0008"$	403-13-1	400-13-1
1.2-1.6"	30mm	9.0mm	$\pm .0008"$	403-14-1	400-14-1
1.6-2.0"	30mm	9.0mm	$\pm .0008"$	403-15-1	400-15-1
.2-1.0"	35mm	1.5mm	$\pm .00012"$	403-21-1	400-21-1
.4-1.2"	55mm	3.5mm	$\pm .00012"$	403-22-1	400-22-1
.8-1.6"	80mm	6.5mm	$\pm .00012"$	403-23-1	400-23-1
1.2-2.0"	80mm	8.5mm	$\pm .00012"$	403-24-1	400-24-1
1.6-2.4"	80mm	8.5mm	$\pm .00012"$	403-25-1	400-25-1
Metric					
5-15mm	20mm	1.5mm	0.02mm	403-11-0	400-11-0
10-20mm	25mm	3.0mm	0.02mm	403-12-0	400-12-0
20-30mm	30mm	6.5mm	0.02mm	403-13-0	400-13-0
30-40mm	30mm	9.0mm	0.02mm	403-14-0	400-14-0
40-50mm	30mm	9.0mm	0.02mm	403-15-0	400-15-0
5-25mm	35mm	1.5mm	0.03mm	403-21-0	400-21-0
10-30mm	55mm	3.5mm	0.03mm	403-22-0	400-22-0
20-40mm	80mm	6.5mm	0.03mm	403-23-0	400-23-0
30-50mm	80mm	8.5mm	0.03mm	403-24-0	400-24-0
40-60mm	80mm	8.5mm	0.03mm	403-25-0	400-25-0

Dimension

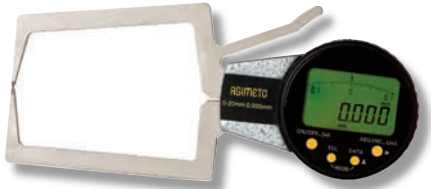


Metric	Inch	L	S	H
Range	Range			
5-15mm	.2-.6"	20mm	1.0mm	1.5mm
10-20mm	.4-.8"	25mm	1.5mm	3.0mm
20-30mm	.8-1.2"	30mm	2.0mm	6.5mm
30-40mm	1.2-1.6"	30mm	2.5mm	9.0mm
40-50mm	1.6-2.0"	30mm	2.5mm	9.0mm
5-25mm	.2-1.0"	35mm	1.0mm	1.5mm
10-30mm	.4-1.2"	55mm	2.0mm	3.5mm
20-40mm	.8-1.6"	80mm	3.0mm	6.5mm
30-50mm	1.2-2.0"	80mm	3.0mm	8.5mm
40-60mm	1.6-2.4"	80mm	3.0mm	8.5mm

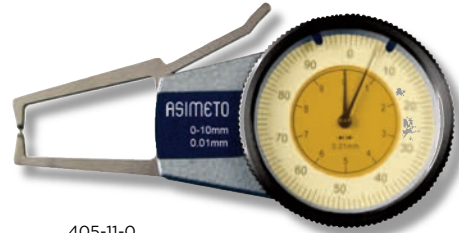


External Caliper Gauges

404 / 405 Series



404-21-0



405-11-0

FEATURES

- Resolution:
Digital models: .0002" / 0.005mm; Dial models: .0005" / 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
- The digital model allows the display housing to be rotated $\pm 170^\circ$

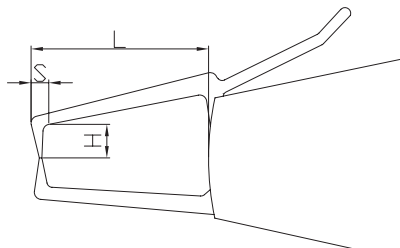
STANDARD ACCESSORIES

- Battery (Digital models)
- Warranty card, Instruction manual, Calibration certificate

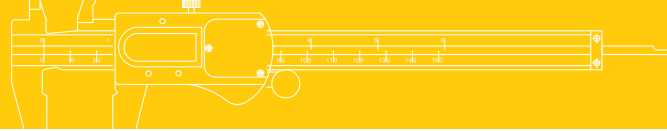
SPECIFICATIONS

Range	Arm Length	Tipped Length	V	Dial models	Digital models
			Accuracy	Code No.	Code No.
Inch					
0-.4"	20mm	1.5mm	$\pm .0008"$	405-11-1	404-11-1
.4-.8"	25mm	3.0mm	$\pm .0008"$	405-12-1	404-12-1
.8-1.2"	30mm	6.5mm	$\pm .0008"$	405-13-1	404-13-1
1.2-1.6"	30mm	9.0mm	$\pm .0008"$	405-14-1	404-14-1
1.6-2.0"	30mm	9.0mm	$\pm .0008"$	405-15-1	404-15-1
0-.8"	35mm	1.5mm	$\pm .00012"$	405-21-1	404-21-1
.4-1.2"	55mm	3.5mm	$\pm .00012"$	405-22-1	404-22-1
.8-1.6"	80mm	6.5mm	$\pm .00012"$	405-23-1	404-23-1
1.2-2.0"	80mm	8.5mm	$\pm .00012"$	405-24-1	404-24-1
1.6-2.4"	80mm	8.5mm	$\pm .00012"$	405-25-1	404-25-1
Metric					
0-10mm	20mm	1.5mm	0.02mm	405-11-0	404-11-0
10-20mm	25mm	3.0mm	0.02mm	405-12-0	404-12-0
20-30mm	30mm	6.5mm	0.02mm	405-13-0	404-13-0
30-40mm	30mm	9.0mm	0.02mm	405-14-0	404-14-0
40-50mm	30mm	9.0mm	0.02mm	405-15-0	404-15-0
0-20mm	35mm	1.5mm	0.03mm	405-21-0	404-21-0
10-30mm	55mm	3.5mm	0.03mm	405-22-0	404-22-0
20-40mm	80mm	6.5mm	0.03mm	405-23-0	404-23-0
30-50mm	80mm	8.5mm	0.03mm	405-24-0	404-24-0
40-60mm	80mm	8.5mm	0.03mm	405-25-0	404-25-0

Dimension



Metric	Inch	L	S	H
Range	Range			
0-10mm	0-.4"	40mm	3mm	8mm
10-20mm	.4-.8"	40mm	3mm	8mm
20-30mm	.8-1.2"	40mm	3mm	8mm
30-40mm	1.2-1.6"	40mm	3mm	8mm
40-50mm	1.6-2.0"	40mm	3mm	8mm
0-20mm	0-.8"	80mm	6.5mm	25mm
10-30mm	.4-1.2"	80mm	6.5mm	25mm
20-40mm	.8-1.6"	80mm	6.5mm	25mm
30-50mm	1.2-2.0"	80mm	6.5mm	25mm
40-60mm	1.6-2.4"	80mm	6.5mm	25mm

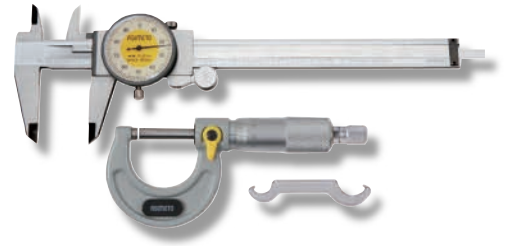


Tool Kits

960 Series

Kit #1 Analog

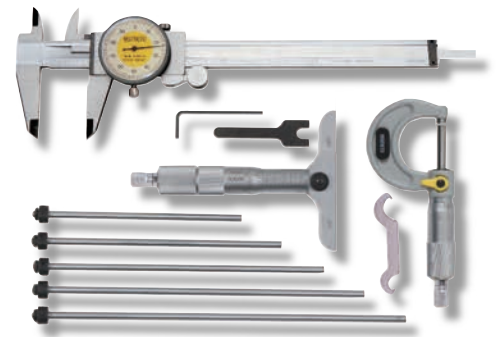
	Inch	Metric
Code No.	960-01-1	960-01-0
Individual Description	Individual Code No.	Individual Code No.
0-6" x .001", 0-150mm x 0.02mm Dial Caliper	303-06-1	303-06-2
0-1" x .0001", 0-25mm x 0.01mm Outside Mic.	101-01-3	101-01-0



960-01-0

Kit #2 Analog Plus

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



960-02-0

Kit #3 Digital Plus

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



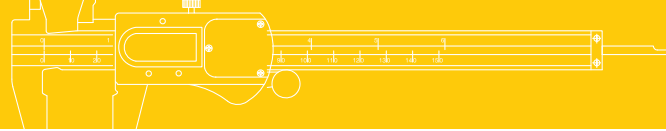
960-03-1

Kit #5 Digital

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



960-05-1



Tool Kits

960 Series



960-10-0



960-08-0

Kit #6 Magnetic Base and Dial Gauge

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

Kit #7 Magnetic Base and Dial Gauge Plus

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

Kit #8 Magnetic Adj. Base and Dial Gauge

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

Kit #9 Magnetic Adj. Base and Dial Gauge Plus

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

Kit #10 Magnetic Base and Test Indicator

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

Kit #11 Magnetic Base and Test Indicator Plus

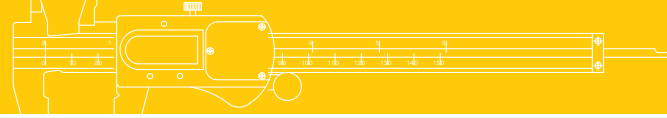
	Inch	Metric
Code No.	960-11-1	960-11-0
Individual Description	Individual Code No.	Individual Code No.
Magnetic Stand with 6" Rods and Universal Clamp	601-01-1	601-01-0
Horiz. Dial Test Indicator .008" x .0001", 0.2mm x 0.002mm	501-78-3	501-02-2

Kit #12 Magnetic Adj. Base and Test Indicator

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

Kit #13 Magnetic Adj. Base and Test Indicator Plus

	Inch	Metric
Code No.	960-13-1	960-13-0
Individual Description	Individual Code No.	Individual Code No.
Magnetic Stand with 6" Rods and Universal Clamp / Fine Adjustment	601-02-1	601-02-0
Horiz. Dial Test Indicator .008" x .0001", 0.2mm x 0.002mm	501-78-3	501-02-2



Tool Kits

960 Series

Kit #14B Digital Plus

	Inch	Metric
Code No.	960-14-1B	960-14-0B

Individual Description	Individual Code No.	Individual Code No.
Articulating arm with magnetic base, type II	602-02-1	602-02-1
0-.03" x .0005", 0-0.8mm x 0.01mm Horiz. Dial Test Indicator.	501-73-3	501-08-2
0-1" x .001", 0-25mm x 0.01mm Outside Mic.	101-01-1	101-01-0
0-1" x .0005", 0-25mm x 0.001mm Digital Outside Mic.	105-01-5	105-01-4
0-.5" x .0005", 0-10mm x 0.01mm AGD2 Dial Indicator	402-12-1	402-10-0
0-.5" x .0005", 0-12.5mm x 0.01mm Digital Indicators	407-01-3	407-01-2
0-6" x .0005", 0-150mm x 0.01mm ABS Digital Caliper	307-56-3	307-56-3
0-6" x .0005", 0-150mm x 0.01mm Dial Caliper	304-06-5	P303-06-0



960-14-1B



960-14-1B/W

Kit #16 Digital Plus

	Inch
Code No.	960-16-1

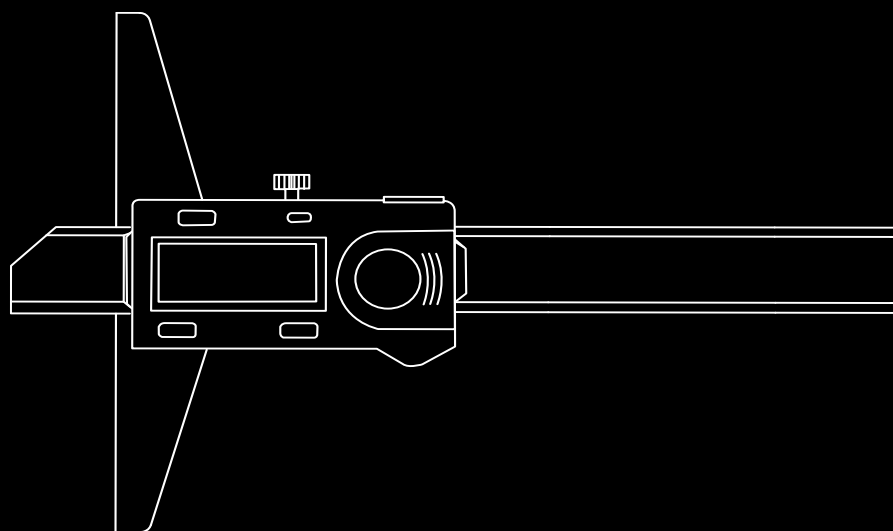
Individual Description	Individual Code No.
Articulating arm with magnetic base, type II	602-02-1
0-.03" x .0005" Horiz. Dial Test Indicator.	501-73-3
0-1" x .0001" Outside Mic.	101-01-3
0-1" x .001" AGD2 Dial Indicator	402-26-1
0-6" x .0005" IP67 Digital Calipers	301-06-0



960-16-1

Depth & Height Gauges

- 87 Depth Calipers
- 88 Depth Calipers With Single Hook
- 89 Depth Calipers With Double Hook
- 90 Depth Base Attachment for Calipers
- 90 Thickness Gauges
- 91 Depth Gauges
- 91 Digital Depth Gauges
- 92 Single Beam Digital Height Gauges with Hand Wheel
- 92 Digital Height Gauges
- 93 Double Beam Digit Counter Height Gauges with Hand Wheel
- 93 Double Beam Digital Height Gauges with Hand Wheel
- 94 Vernier Height Gauges





Depth Calipers

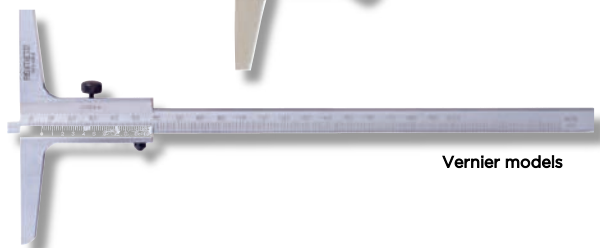
321 / 327 Series



ABS Digital models



Digital models



Vernier models

FEATURES

- Resolution:
 - Digital models: .0005" / 0.01mm
 - Vernier models: .001" / 0.02mm or 0.05mm
- Both of the measuring surfaces are precision ground for accuracy
- Inch/Metric conversion
- Cable data output: 900-05-4 / 5 (ABS Models only)
- Wireless data output:
 - Transmitting Device : 901-00-4 / 6 (ABS Models only)
 - Receiver Device: 901-00-3

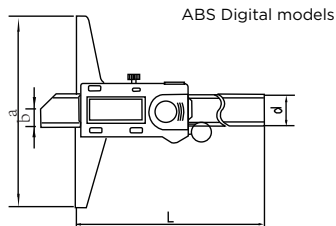
STANDARD ACCESSORIES

- Battery (Digital models)
- Warranty card, Instruction manual, Calibration certificate

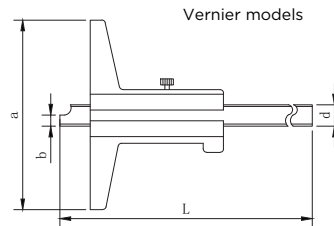
SPECIFICATIONS

Inch			Metric			Inch	Metric
Range	Graduation	Accuracy	Range	Graduation	Accuracy	Code No.	Code No.
ABS Digital models							
0-6"	.0005"	± .001"	0-150mm	0.01mm	± 0.03mm	-	327-06-7
0-8"	.0005"	± .0015"	0-200mm	0.01mm	± 0.03mm	-	327-08-7
0-12"	.0005"	± .0015"	0-300mm	0.01mm	± 0.04mm	-	327-12-7
Digital models							
0-6"	.001"	± .001"	0-150mm	0.02mm	± 0.03mm	-	327-26-0
0-8"	.001"	± .0015"	0-200mm	0.02mm	± 0.03mm	-	327-28-0
0-12"	.001"	± .0015"	0-300mm	0.02mm	± 0.04mm	-	327-32-0
Vernier models							
0-6"	.001"	± .001"	0-150mm	0.02mm	± 0.03mm	321-06-1	321-06-2
0-8"	.001"	± .0015"	0-200mm	0.02mm	± 0.03mm	321-08-1	321-08-2
0-12"	.001"	± .0015"	0-300mm	0.02mm	± 0.04mm	321-12-1	321-12-2
0-20"	.001"	± .002"	0-500mm	0.02mm	± 0.06mm	321-20-1	321-20-2
-	-	-	0-150mm	0.05mm	± 0.05mm	-	321-06-0
-	-	-	0-200mm	0.05mm	± 0.05mm	-	321-08-0
-	-	-	0-300mm	0.05mm	± 0.05mm	-	321-12-0

Dimension



ABS Digital models



Vernier models

Range	ABS Digital models / Digital models				Vernier models			
	L	a	b	d	L	a	b	d
0-6"/0-150mm	230mm	100mm	6mm	14.5mm	230mm	100mm	5.5mm	10mm
0-8"/0-200mm	280mm	100mm	6mm	14.5mm	280mm	100mm	5.5mm	10mm
0-12"/0-300mm	380mm	100mm	6mm	14.5mm	380mm	100mm	5.5mm	10mm



Depth Calipers With Single Hook

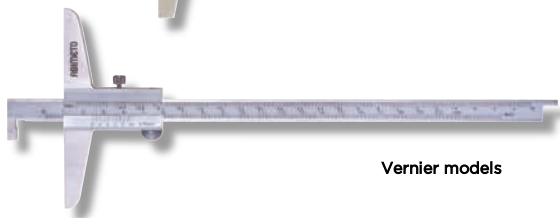
322 Series



ABS Digital models



Digital models



Vernier models

FEATURES

- Resolution:
 - Digital models: .0005" / 0.01mm
 - Vernier models: .001" / 0.05mm
- 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
- Both Vernier and Digital models are available
- Cable data output: 900-05-4 / 5 (ABS Models only)
- Wireless data output:
 - Transmitting Device : 901-00-4 / 6 (ABS Models only)
 - Receiver Device: 901-00-3

STANDARD ACCESSORIES

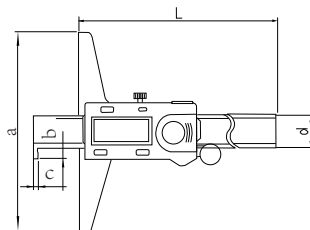
- Battery (Digital models)
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

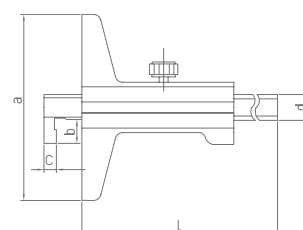
Inch			Metric			Inch		Metric	
Range	Graduation	Accuracy	Range	Graduation	Accuracy	Code No.	Code No.		
ABS Digital models									
0-6"	.0005"	± .001"	0-150mm	0.01mm	± 0.03mm	-	322-06-7		
0-8"	.0005"	± .0015"	0-200mm	0.01mm	± 0.03mm	-	322-08-7		
0-12"	.0005"	± .0015"	0-300mm	0.01mm	± 0.04mm	-	322-12-7		
Digital models									
0-6"	.0005"	± .001"	0-150mm	0.01mm	± 0.03mm	-	322-26-0		
0-8"	.0005"	± .0015"	0-200mm	0.01mm	± 0.03mm	-	322-28-0		
0-12"	.0005"	± .0015"	0-300mm	0.01mm	± 0.04mm	-	322-32-0		
Vernier models									
0-6"	.001"	± .001"	0-150mm	0.05mm	± 0.05mm	322-06-3	322-06-2		
0-8"	.001"	± .0015"	0-200mm	0.05mm	± 0.05mm	322-08-3	322-08-2		
0-12"	.001"	± .0015"	0-300mm	0.05mm	± 0.08mm	322-12-3	322-12-2		

Dimension

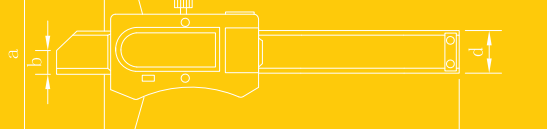
ABS Digital models



Vernier models

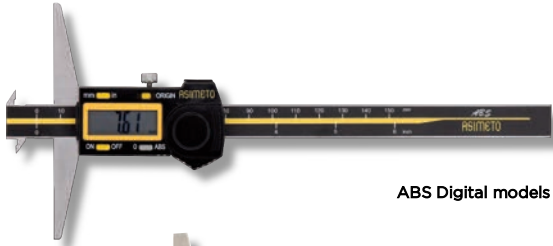


Range	ABS Digital models					Vernier models				
Inch/Metric	L	a	b	c	d	L	a	b	c	d
0-6"/0-150mm	232mm	100mm	5mm	2mm	14.5mm	230mm	100mm	10mm	5mm	10mm
0-8"/0-200mm	285mm	100mm	5mm	2mm	14.5mm	280mm	100mm	10mm	5mm	10mm
0-12"/0-300mm	390mm	100mm	5mm	2mm	14.5mm	380mm	100mm	10mm	5mm	10mm



Depth Calipers With Double Hook

323 / 331 Series



ABS Digital models



Digital models



Vernier models

FEATURES

- Resolution:
 - Digital models: .0005" / 0.01mm
 - Vernier models: .001" / 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
- Both Digital and Vernier models are available
- Cable data output: 900-05-4 / 5 (ABS Models only)
- Wireless data output:
 - Transmitting Device : 901-00-4 / 6 (ABS Models only)
 - Receiver Device: 901-00-3

STANDARD ACCESSORIES

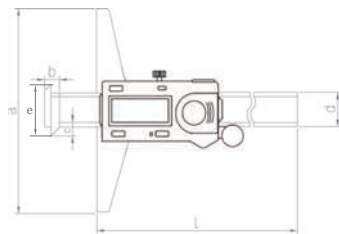
- Battery (Digital models)
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

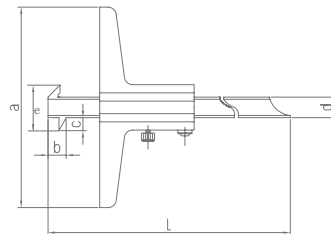
Inch			Metric			Inch		Metric	
Range	Graduation	Accuracy	Range	Graduation	Accuracy	Code No.	Code No.		
ABS Digital models									
0-6"	.0005"	± .001"	0-150mm	0.01mm	± 0.03mm	-	323-06-7		
0-8"	.0005"	± .0015"	0-200mm	0.01mm	± 0.03mm	-	323-08-7		
0-12"	.0005"	± .0015"	0-300mm	0.01mm	± 0.04mm	-	323-12-7		
Digital models									
0-6"	.0005"	± .001"	0-150mm	0.01mm	± 0.03mm	-	323-26-0		
0-8"	.0005"	± .0015"	0-200mm	0.01mm	± 0.03mm	-	323-28-0		
0-12"	.0005"	± .0015"	0-300mm	0.01mm	± 0.04mm	-	323-32-0		
Vernier models									
0-6"	.001"	± .001"	0-150mm	0.05mm	± 0.05mm	331-06-3	331-06-2		
0-8"	.001"	± .0015"	0-200mm	0.05mm	± 0.05mm	331-08-3	331-08-2		
0-12"	.001"	± .0015"	0-300mm	0.05mm	± 0.08mm	331-12-3	331-12-2		

Dimension

ABS Digital models



Vernier models



Range	ABS Digital models						Digital models						Vernier models						
	Inch/Metric	L	a	b	c	d	e	L	a	b	c	d	e	L	a	b	c	d	e
0-6"/0-150mm		232mm	100mm	4mm	6mm	14.5mm	26.5mm	230mm	100mm	2.5mm	3.5mm	14.5mm	21.5mm	230mm	100mm	4mm	6mm	10mm	22mm
0-8"/0-200mm		285mm	100mm	4mm	6mm	14.5mm	26.5mm	280mm	100mm	2.5mm	3.5mm	14.5mm	21.5mm	280mm	100mm	4mm	6mm	10mm	22mm
0-12"/0-300mm		390mm	100mm	4mm	6mm	14.5mm	26.5mm	380mm	100mm	2.5mm	3.5mm	14.5mm	21.5mm	380mm	100mm	4mm	6mm	10mm	22mm



Depth Base Attachment for Calipers

327 Series



327-66-9

FEATURES

- For up to 200mm calipers with depth bar
- Made of stainless steel

SPECIFICATIONS

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

Thickness Gauges

495 / 491 Series



495-02-0



491-01-0

FEATURES

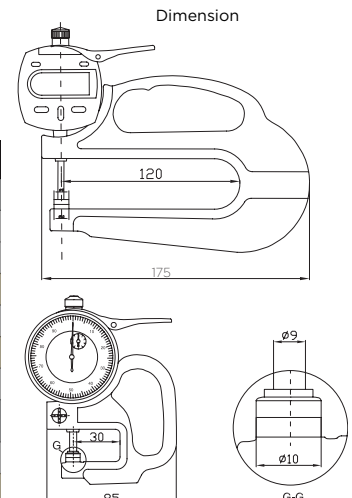
- Resolution:
 - Dial models: .001" / 0.01mm
 - Digital models: .0005" or .00005" / 0.01mm or 0.001mm
- Designed for the measurement of paper, film, wire, sheet metal, jewelry, leather and similar materials
- Measurement anvils are flat

STANDARD ACCESSORIES

- Battery (Digital models)
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch		Metric					
Range	Resolution	Accuracy	Range	Resolution	Accuracy	Deep Throat	Code No.
Digital models							
0-0.4"	.0005"	± .001"	0-10mm	0.01mm	± 0.015mm	30mm	495-01-0
0-0.4"	.0005"	± .001"	0-10mm	0.01mm	± 0.015mm	120mm	495-02-0
0-0.4"	.00005"	± .0005"	0-10mm	0.001mm	± 0.01mm	30mm	495-01-3
0-0.4"	.00005"	± .0005"	0-10mm	0.001mm	± 0.01mm	120mm	495-02-3
Dial models							
Range	Resolution	Accuracy	Range	Resolution	Accuracy	Inch Code No.	Metric Code No.
0-0.4"	.001"	± .001"	0-10mm	0.01mm	± 0.015mm	491-01-1	491-01-0
0-0.4"	.001"	± .001"	0-10mm	0.01mm	± 0.015mm	491-02-1	491-02-0





Depth Gauges

473 / 475 Series

FEATURES

- Resolution:
 - Digital models: .0005" or .00005" / 0.01mm or 0.001mm
 - Dial models: .001" / 0.01mm
- The total measuring range is accomplished with threaded depth rods in 1" or 20mm intervals
- The base surface is precisely finished and hardened for accurate repeatable measurements
- Inch / Metric conversion for digital models

STANDARD ACCESSORIES

- Battery (Digital models), Interchangeable rods
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Digital models

Inch			Metric			Stroke	Rods	Base Length	Code No.
Range	Resolution	Accuracy	Range	Resolution	Accuracy				
0-4"	.0005"	.001"	0-100mm	0.01mm	0.02mm	12.7mm	10 pcs	63 x 17mm	475-04-0
0-4"	.0005"	.001"	0-100mm	0.01mm	0.02mm	12.7mm	10 pcs	101.5 x 17mm	475-04-2
0-4"	.00005"	.0005"	0-100mm	0.001mm	0.01mm	12.7mm	10 pcs	63 x 17mm	475-04-4
0-4"	.00005"	.0005"	0-100mm	0.001mm	0.01mm	12.7mm	10 pcs	101.5 x 17mm	475-04-6

Dial models

Range	Resolution	Accuracy	Stroke	Rods	Base Length	Code No.
Inch						
0-4"	.001"	± .002"	1"	4 pcs	2.5" x .63"	473-04-1
0-4"	.001"	± .002"	1"	4 pcs	4" x .63"	473-04-3
Metric						
0-100mm	0.01mm	± 0.02mm	10mm	10 pcs	63 x 17mm	473-04-0
0-100mm	0.01mm	± 0.02mm	10mm	10 pcs	101.5 x 17mm	473-04-2



475-04-4



473-04-0

Digital Depth Gauges

321 Series

FEATURES

- Resolution: .0005" / 0.01mm
- Zero setting at any position
- Inch / Metric conversion
- Spherical end anvil

STANDARD ACCESSORIES

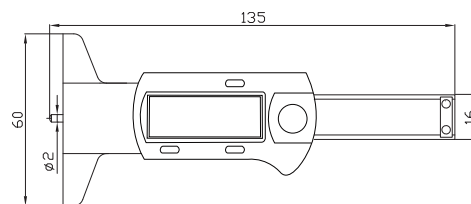
- Battery
- Warranty card, Calibration certificate

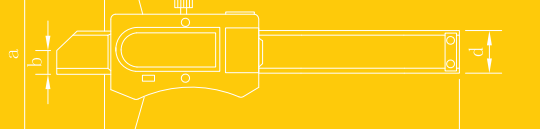
SPECIFICATIONS

Inch		Metric		Base Length	Code No.
Range	Accuracy	Range	Accuracy		
0-1.2"	± .0015"	0-30mm	± 0.03mm	60mm	321-01-2



321-01-2





Single Beam Digital Height Gauges with Hand Wheel

626 Series

FEATURES

- Resolution: .0005" / 0.01mm
- Large LCD display
- Hand wheel design for fine adjustment
- Metric/Inch conversion at any position
- Zero setting at any position
- Carbide tipped scriber provided

STANDARD ACCESSORIES

- Carbide tipped scriber with clamp, Battery
- Warranty card, Instruction manual, Calibration certificate

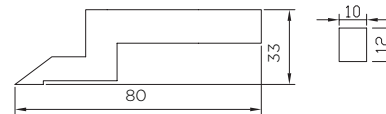
SPECIFICATIONS

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



626-12-0

Dimension



Digital Height Gauges

625 Series

FEATURES

- Resolution: .0005" / 0.01mm
- Origin memory eliminates the need to zero the reading each time the height gauge is turned on
- Can be used with a test indicator and holder for precise measurement
- Inch/Metric conversion
- The fine-adjustment allows the slider to be precisely positioned
- The base is designed with a thermal heat isolation hand grip

STANDARD ACCESSORIES

- Carbide tipped scriber with clamp, Battery
- Warranty card, Instruction manual, Calibration certificate

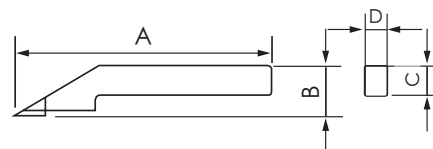
SPECIFICATIONS

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



625-24-0

Dimension





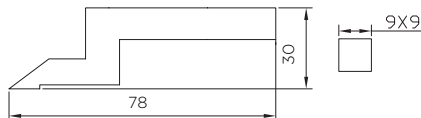
Double Beam Digit Counter Height Gauges with Hand Wheel

623 Series



623-18-1

Dimension



FEATURES

- Graduation: .001" / 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

STANDARD ACCESSORIES

- Carbide tipped scriber with clamp
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch		Metric		Inch	Metric
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-12"	±0.015"	0-300mm	±0.04mm	623-12-1	623-12-0
0-18"	±0.020"	0-450mm	±0.05mm	623-18-1	623-18-0
0-24"	±0.020"	0-600mm	±0.07mm	623-24-1	623-24-0
0-40"	±0.030"	0-1000mm	±0.07mm	623-40-1	623-40-0

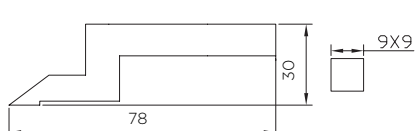
Double Beam Digital Height Gauges with Hand Wheel

627 Series



627-24-0

Dimension



FEATURES

- Resolution: .001" / 0.01mm
- Large LCD display
- Metric/Inch system conversion
- 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

STANDARD ACCESSORIES

- Carbide tipped scriber with clamp, Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch		Metric		
Range	Accuracy	Range	Accuracy	Code No.
0-12"	±0.01"	0-300mm	±0.02mm	627-12-0
0-18"	±0.015"	0-450mm	±0.03mm	627-18-0
0-24"	±0.015"	0-600mm	±0.03mm	627-24-0



Vernier Height Gauges

621 Series



621-24-0

FEATURES

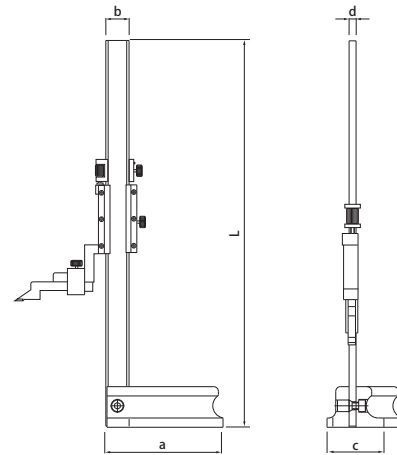
- Graduation:
Inch: .001" or 1/128"
Metric: 0.02mm or 0.05mm
- The fine-adjustment allows the slider to be precisely positioned
- Matte chrome finish
- Stainless steel design
- The base is designed with a thermal heat isolation hand grip

STANDARD ACCESSORIES

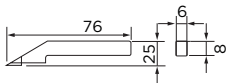
- Carbide tipped scriber with clamp
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

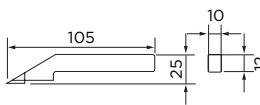
Inch			Metric			Code No.
Range	Graduation	Accuracy	Range	Graduation	Accuracy	
0-8"	1/128"	± .0015"	0-200mm	0.05mm	± 0.05mm	621-08-0L
0-12"	1/128"	± .0015"	0-300mm	0.05mm	± 0.05mm	621-12-0L
0-12"	1/128"	± .0015"	0-300mm	0.05mm	± 0.05mm	621-12-0
0-20"	1/128"	± .0015"	0-500mm	0.05mm	± 0.08mm	621-20-0
0-24"	1/128"	± .0020"	0-600mm	0.05mm	± 0.10mm	621-24-0
0-40"	1/128"	± .0020"	0-1000mm	0.05mm	± 0.10mm	621-40-0
0-8"	.001"	± .0015"	0-200mm	0.02mm	± 0.03mm	621-08-2L
0-12"	.001"	± .0015"	0-300mm	0.02mm	± 0.04mm	621-12-2L
0-12"	.001"	± .0015"	0-300mm	0.02mm	± 0.04mm	621-12-2
0-20"	.001"	± .0015"	0-500mm	0.02mm	± 0.05mm	621-20-2
0-24"	.001"	± .0020"	0-600mm	0.02mm	± 0.07mm	621-24-2
0-40"	.001"	± .0020"	0-1000mm	0.02mm	± 0.07mm	621-40-2



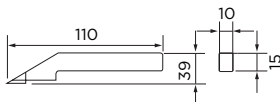
Dimension



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



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



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

Code No.	a	b	c	d	L
621-08-0L/2L	135mm	20mm	80mm	6mm	330mm
621-12-0L/2L	135mm	20mm	80mm	6mm	430mm
621-12-0/2	175mm	30mm	115mm	10.5mm	520mm
621-20-0/2	175mm	30mm	115mm	10.5mm	720mm
621-24-0/2	175mm	30mm	115mm	10.5mm	820mm



2.749 in

mm/inch

OFF

ON/ZERO

ADD+

SUB-

ASIMETO

IN/MM

IP65

+/-

in

0.00040

ZERO/ABS

ORIGIN

ON/OFF

PRESET

TOL

60

2

50

40

30

20

10

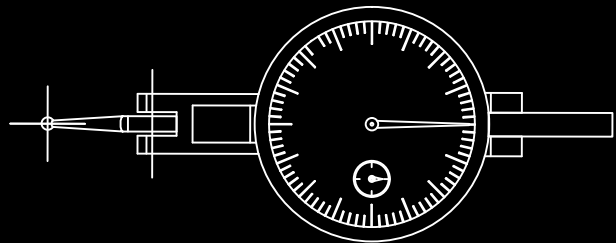
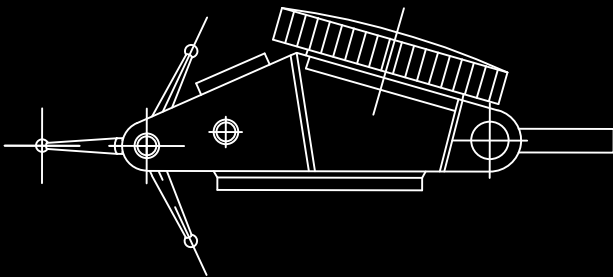
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Indicators & Dial Gauges

97	IP65 Digital Indicators	115	Axial Support Bracket
98	IP67 Digital Indicators	115	Surface Gauges
99	Digital Indicators	115	Dial Holders
100	Digital Indicators With Analog Display	116	Optional Accessories for ASIMETO Test Indicators
101	AGD1 Dial Indicators	117	Dial Gauge Stands
102	AGD2 Dial Indicators	117	Precision Granite Stands
105	Crank Shaft Gauges	118	Magnetic Bases
105	Dial Comparators	118	Forced Locking Magnetic Bases
106	Dial Indicators - One Revolution for Error-free Reading	119	Flexible Arm Magnetic Bases
106	Straight Metric Indicator Stem Bushing	119	Articulating Arm Magnetic Bases
107	Back Plunger Type Dial Indicators	121	Hydraulic Magnetic Bases
107	Back Plunger Dial Indicator Sets	121	Permanent Magnetic Base
108	Indicator Points	121	Magnetic Bases
108	Dial Indicator Extension Rods & Sets		
109	Dial Indicator Points		
109	Stem Indicator Points		
110	Dial Test Indicators		
112	Extended Range Dial Test Indicators		
113	Extended Range Dial Test Indicator Sets		
114	Digital Radius Gauge		
114	Centering Indicators		





IP65 Digital Indicators

407 Series



407-02-5



407-01-4



Lifting lever

FEATURES

- Resolution:
Inch: .0005"/.00005"
Metric: 0.01mm; 0.001mm
- Absolute measurement
- Tolerance measurement feature allows for the upper and lower tolerance for maximum and minimum.
- Inch / Metric and ABS / INC conversion
- Flat back (attached) and lug back supplied
- Ø8mm stem diameter for metric models
Ø3 / 8" stem diameter for inch models
- 330 deg. screen rotation
- Cable data output: 900-07-0 / 1
- Wireless data output:
Transmitting Device : 901-00-2 / 7
Receiver Device: 901-00-3

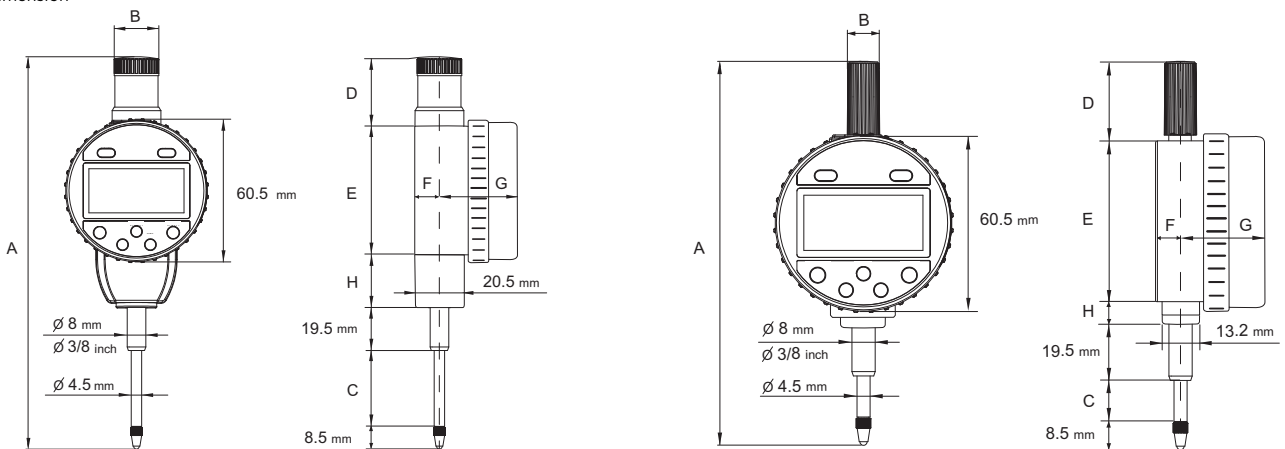
STANDARD ACCESSORIES

- Lug Back, Battery, Lifting lever (More than 1 inch)
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch			Metric			Inch		Metric	
Range	Resolution	Accuracy	Range	Resolution	Accuracy	Code No.	Code No.		
0-.5"	.0005"	±.0015"	0-12.5mm	0.01mm	0.02mm	407-01-3	407-01-2		
0-1"	.0005"	±.0015"	0-25mm	0.01mm	0.02mm	407-02-3	407-02-2		
0-2"	.0005"	±.0015"	0-50mm	0.01mm	0.02mm	407-03-3	407-03-2		
0-.5"	.00005"	±.00015"	0-12.5mm	0.001mm	0.004mm	407-01-5	407-01-4		
0-1"	.00005"	±.00015"	0-25mm	0.001mm	0.005mm	407-02-5	407-02-4		
0-2"	.00005"	±.0002"	0-50mm	0.001mm	0.006mm	407-03-5	407-03-4		

Dimension



Range	A	B	C	D	E	F	G	H
	mm	mm	mm	mm	mm	mm	mm	mm
0-0.5"/0-12.5mm	137	11	13.5	30	60.5	8.5	31.5	5
0-1"/0-25mm	166.5	19.2	31.5	28	56.5	11	33.2	22.5
0-2"/0-50mm	244	19.2	56	54.5	56.5	11	33.2	49



IP67 Digital Indicators

408 Series



FEATURES

- Resolution: .00005" / 0.001mm
- Protection level IP67
- Inductive measurement system
- Analog display
- 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
- ABS / INC conversion
- Inch/Metric conversion
- Built in wireless transmission (optional)
- Automatic power off
- Cable data output: 900-05-4 / 5
- Wireless data output:
Transmitting Device : 901-00-4 / 6
Receiver Device: 901-00-3

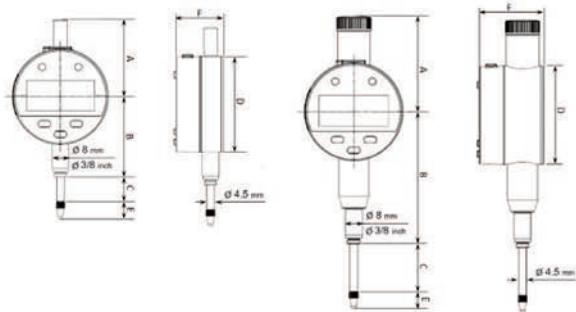
STANDARD ACCESSORIES

- Lug Back, 1 pc
- Lifting Lever (More than 25mm/ 1inch), 1 pc
- SR2032 Battery 1 pc
- Instruction manual
- Warranty card

SPECIFICATIONS

Inch		Metric			Inch	Metric
Range	Accuracy	Range	Resolution	Data Output Type	Code No.	Code No.
0-.5"	±.00015"	0-12.5mm	0.004mm	SPC data output	408-01-7	408-01-6
0-1"	±.00015"	0-25mm	0.005mm	SPC data output	408-02-7	408-02-6
0-2"	±.0002"	0-50mm	0.006mm	SPC data output	408-03-7	408-03-6
0-.5"	±.00015"	0-12.5mm	0.004mm	With bluetooth	408-01-9	408-01-8
0-1"	±.00015"	0-25mm	0.005mm	With bluetooth	408-02-9	408-02-8
0-2"	±.0002"	0-50mm	0.006mm	With bluetooth	408-03-9	408-03-8

Dimension



Range	A	B	C	D	E	F
	mm	mm	mm	mm	mm	mm
0-0.5"/0-12.5mm	45.1	46.8	13.5	56.0	8.5	27.8
0-1"/0-25mm	54.2	75.0	27.0	56.0	8.5	36.6
0-2"/0-50mm	80.2	99.5	52.0	56.0	8.5	36.6



Digital Indicators

405 Series



405-95-1



405-01-4

FEATURES

- Resolution:
Inch: .0005"; .00005"
Metric: 0.01mm; 0.001mm
- 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.
- Inch / Metric and ABS/INC conversion
- Flat back (attached) and lug back supplied
- Ø8mm stem diameter for metric models
Ø3 / 8" stem diameter for inch models
- Cable data output: 900-20-0

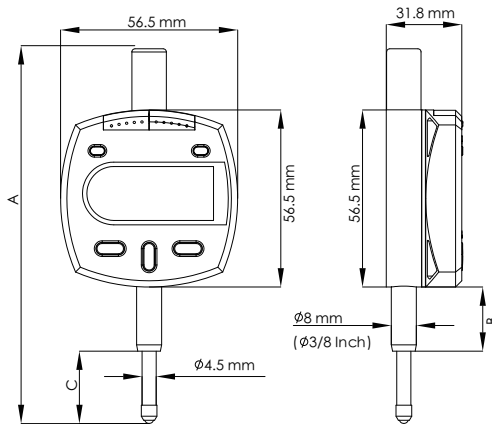
STANDARD ACCESSORIES

- Lug Back, Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch			Metric			Inch		Metric	
Range	Resolution	Accuracy	Range	Resolution	Accuracy	Code No.	Code No.		
0-.5"	.0005"	±.0015"	0-12.5mm	0.01mm	0.02mm	405-95-1	405-95-0		
0-1"	.0005"	±.0015"	0-25mm	0.01mm	0.02mm	405-01-1	405-01-0		
0-2"	.0005"	±.0015"	0-50mm	0.01mm	0.02mm	405-02-1	405-02-0		
0-4"	.0005"	±.0015"	0-100mm	0.01mm	0.03mm	405-04-1	405-04-0		
0-.5"	.00005"	±.00015"	0-12.5mm	0.001mm	0.004mm	405-95-5	405-95-4		
0-1"	.00005"	±.00015"	0-25mm	0.001mm	0.005mm	405-01-5	405-01-4		
0-2"	.00005"	±.0002"	0-50mm	0.001mm	0.006mm	405-02-5	405-02-4		
0-4"	.00005"	±.0003"	0-100mm	0.001mm	0.008mm	405-04-5	405-04-4		

Dimension



Range	A	B	C
	mm	mm	mm
0-.5"/0-12.5mm	122	26	24
0-1"/0-25mm	174	47	41
0-2"/0-50mm	248	71	61
0-4"/0-100mm	396	35	102



Digital Indicators With Analog Display

406 / 407 Series



406-05-0

FEATURES

- Resolution: .00005" / 0.002mm, 0.001mm
- Absolute measurement
- 330 deg. screen rotation
- Inch / Metric conversion
- Auto power On / Off
- Flat back (attached) and lug back supplied
- Ø8mm stem diameter for metric models
Ø3 / 8" stem diameter for inch models

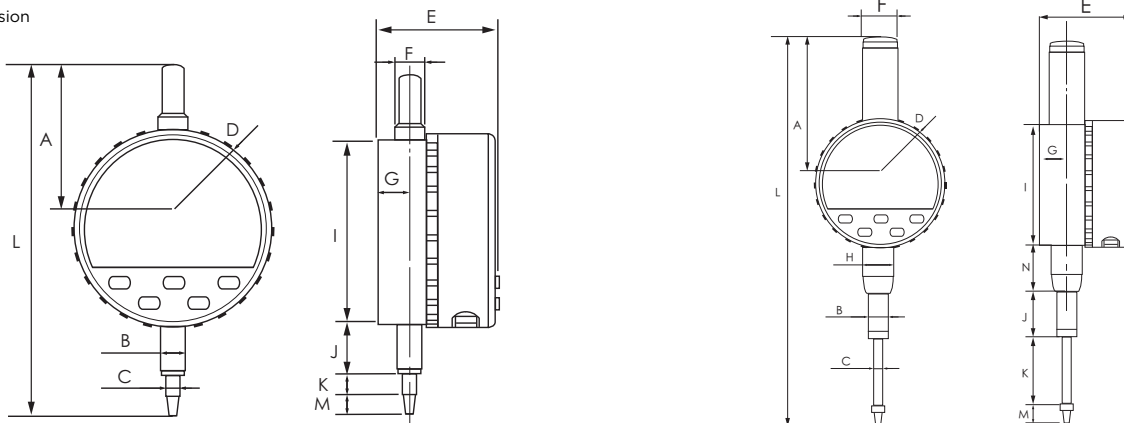
STANDARD ACCESSORIES

- Lug Back, Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch			Metric			Inch	Metric
Range	Resolution	Accuracy	Range	Resolution	Accuracy	Code No.	Code No.
0-.25"	.00005"	±.0003"	6.35mm	0.002mm	0.006mm	406-25-1	406-25-0
0-.5"	.00005"	±.0003"	12.5mm	0.002mm	0.008mm	406-05-1	406-05-0
0-1"	.00005"	±.0006"	25mm	0.002mm	0.015mm	406-01-1	406-01-0
0-.25"	.00005"	±.00016"	6.35mm	0.001mm	0.004mm	-	407-01-0
0-.5"	.00005"	±.00016"	12.5mm	0.001mm	0.004mm	-	407-02-0
0-1"	.00005"	±.0002"	25mm	0.001mm	0.005mm	-	407-03-0

Dimension



Range	A	B	C	D	F	E	G	H	I	J	K	L	M	N
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0-.25"/0-6.35mm	45.8	9.5/8	4.5	63	39	10	10	-	59	22	8	115	10	-
0-.5"/0-12.5mm	55	9.5/8	4.5	63	39	10	10	-	59	22	14.5	131	10	-
0-1"/0-25mm	71	9.5/8	4.5	63	45	16	10	14	59	22	32	190	10	25



AGD1 Dial Indicators

401 Series



401-06-1



401-05-2

FEATURES

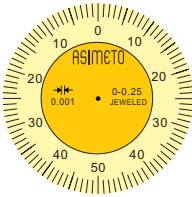
- Graduation:
Inch: .0005" / .001"
Metric: 0.01mm
- Dial face dia.: Ø1.61" / Ø42mm
- Jeweled
- Flat back (attached) and lug back supplied
- Inch models without revolution counter

STANDARD ACCESSORIES

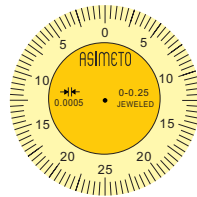
- Flat Back
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

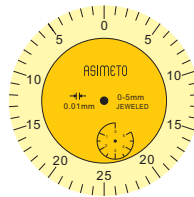
Range	Graduation	Range / Rev.	Dial Reading	Accuracy	Code No.
Stem diameter Ø3/8"					
0-.25"	.001"	.1"	0-100	± .001"	401-06-1
0-.25"	.001"	.1"	0-50-0	± .001"	401-06-3
0-.25"	.0005"	.05"	0-25-0	± .0005"	401-06-5
0-3mm	0.01mm	0.5mm	0-50	± 0.010mm	401-03-1
0-5mm	0.01mm	0.5mm	0-50	± 0.012mm	401-05-1
0-5mm	0.01mm	0.5mm	0-25-0	± 0.012mm	401-05-3
Stem diameter Ø8mm					
0-3mm	0.01mm	0.5mm	0-50	0.010mm	401-03-0
5mm	0.01mm	0.5mm	0-50	0.012mm	401-05-0
5mm	0.01mm	0.5mm	0-25-0	0.012mm	401-05-2



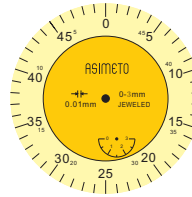
401-06-3



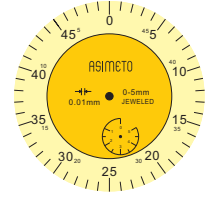
401-06-5



401-05-2
401-05-3

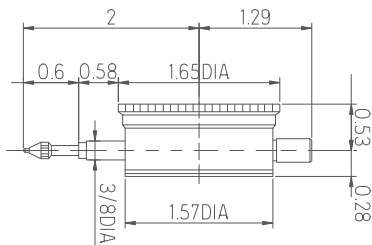


401-03-0
401-03-1

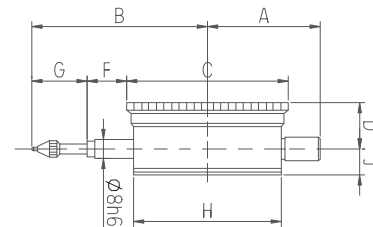


401-05-0
401-05-1

Inch Dimension



Metric Dimension



Range	A	B	C	D	F	G	H	J
	mm	mm	mm	mm	mm	mm	mm	mm
0-3mm	30.6	46.4	42	13.5	14.7	10.7	40	7
0-5mm	30.6	48.4	42	13.5	14.7	12.7	40	7



AGD2 Dial Indicators

402 Series

FEATURES

- Graduation Inch: .0001" / .0005" / .001"; Metric: 0.001mm / 0.01mm
- Dial face dia.: Ø2.20" / Ø58mm
- Easy to read dial face
- Jeweled
- Internal tolerance marker
- Flat back (attached) and lug back supplied
- With counter pointer
- IP54 water proof series: with sealed housing & water resistant ring.

STANDARD ACCESSORIES

- Flat back, Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Range	Graduation	Range / Rev.	Dial Reading	Accuracy	Code No.
Stem Diameter Ø3/8"					
0-.05"	.0001"	.01"	0-100	± .0001"	402-01-1
0-.05"	.0001"	.01"	0-50-0	± .0001"	402-01-3
0-.05"	.0001"	.01"	0-5-0	± .0001"	402-01-5
0-.25"	.001"	.1"	0-100	± .002"	402-06-1
0-.25"	.001"	.1"	0-50-0	± .002"	402-06-3
0-.25"	.0005"	.05"	0-25-0	± .0015"	402-06-5
0-.50"	.001"	.1"	0-100	± .002"	402-12-1
0-.50"	.001"	.1"	0-50-0	± .002"	402-12-3
0-.50"	.0005"	.05"	0-50	± .002"	402-12-5
0-1"	.001"	.1"	0-100	± .002"	402-26-1
0-1"	.001"	.1"	0-50-0	± .002"	402-26-3
0-1"	.0005"	.05"	0-50	± .002"	402-26-5
0-2"	.001"	.1"	0-100	± .004"	402-51-1
0-3mm	0.01mm	1mm	0-100	± 0.01mm	402-03-1
0-3mm	0.01mm	1mm	0-50-0	± 0.01mm	402-03-3
0-5mm	0.01mm	1mm	0-100	± 0.012mm	402-05-1
0-5mm	0.01mm	1mm	0-50-0	± 0.012mm	402-05-3
0-10mm	0.01mm	1mm	0-100	± 0.015mm	402-10-1
0-10mm	0.01mm	1mm	0-50-0	± 0.015mm	402-10-3
0-20mm	0.01mm	1mm	0-50-0	± 0.025mm	402-20-1
0-25mm	0.01mm	1mm	0-50-0	± 0.035mm	402-25-3
Stem Diameter Ø8mm					
0-1mm	0.001mm	0.2mm	0-200	0.005mm	402-01-0
0-1mm	0.001mm	0.2mm	0-200	0.005mm	P402-01-0
0-1mm	0.001mm	0.2mm	0-100-0	0.005mm	402-01-2
0-1mm	0.002mm	0.4mm	0-100-0	0.006mm	402-01-6
v0-1mm	0.002mm	0.4mm	0-100-0	0.006mm	402-01-7
0-1mm	0.001mm	0.1mm	0-100	0.005mm	402-01-8
0-3mm	0.01mm	1mm	0-100	0.010mm	402-03-0
0-3mm	0.01mm	1mm	0-50-0	0.010mm	402-03-2
0-5mm	0.01mm	1mm	0-100	0.012mm	402-05-0
0-5mm	0.01mm	1mm	0-50-0	0.012mm	402-05-2
0-10mm	0.01mm	1mm	0-100	0.015mm	402-10-0
0-10mm	0.01mm	1mm	0-50-0	0.015mm	402-10-2
0-10mm	0.01mm	1mm	0-50-0/0-100	0.015mm	402-11-0
0-20mm	0.01mm	1mm	0-50-0	0.025mm	402-20-0
0-20mm	0.01mm	1mm	0-100	0.025mm	402-20-2
0-25mm	0.01mm	1mm	0-50-0	0.035mm	402-25-0
0-25mm	0.01mm	1mm	0-100	0.035mm	402-25-2
0-30mm	0.01mm	1mm	0-100	0.035mm	402-30-0
0-30mm	0.01mm	1mm	0-50-0	0.035mm	402-30-2
0-50mm	0.01mm	1mm	0-100	0.035mm	402-50-0
0-100mm	0.01mm	1mm	0-100	0.05mm	402-00-0
Shock Proof. Stem Diameter Ø8mm					
0-5mm	0.01mm	1mm	0-100	0.012mm	402-05-4
0-10mm	0.01mm	1mm	0-100	0.015mm	402-10-8
0-20mm	0.01mm	1mm	0-100	0.025mm	402-20-8
IP54 Water Proof Series					
0-10mm (Stem Dia. Ø8mm)	0.01mm	1mm	0-100	0.015mm	402-10-4
0-0.4" (Stem Dia. Ø3/8")	.001"	.1"	0-100	.002"	402-26-7
0-0.4" (Stem Dia. Ø3/8")	.0005"	.05"	0-50	.0015"	402-26-9



402-10-0



402-26-5

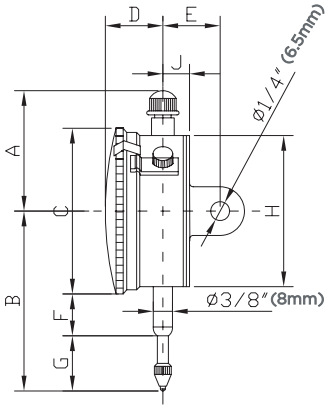


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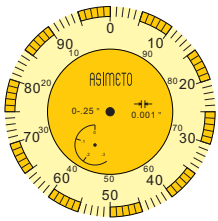


AGD2 Dial Indicators

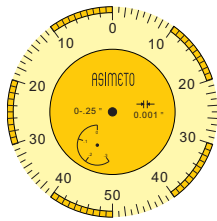
402 Series



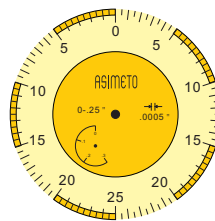
Range	A	B	C	D	E	F	G	H	J
Inch	inch	inch	inch	inch	inch	inch	inch	inch	inch
0-.05"	1.76	2.39	2.28	0.64	0.76	0.69	0.56	2.11	0.32
0-.25"	1.48	2.54	2.28	0.64	0.76	0.69	0.71	2.11	0.32
0-.5"	1.48	2.74	2.28	0.64	0.76	0.69	0.91	2.11	0.32
0-1"	1.48	3.21	2.28	0.64	0.76	0.69	1.38	2.11	0.32
0-2"	4.73	5.5	2.28	0.7	0.76	2	2.34	2.11	0.32
Metric	mm	mm	mm	mm	mm	mm	mm	mm	mm
0-1mm	45	62	58	16.2	19.3	18.3	15	53.5	8.1
0-3mm	43.7	68.5	58	16.3	19	18.3	15	53.5	8.1
0-5mm	43.7	68.5	58	16.3	19	18.3	15	53.5	8.1
0-10mm	43.7	68.5	58	16.3	19	18.3	15	53.5	8.1
0-20mm	37.5	80.5	58	16.3	19.4	17.5	34	53.5	8.4
0-25mm	37.5	80.5	58	16.3	19.4	17.5	34	53.5	8.4
0-30mm	43.7	88	58	15	20	21.5	37.5	53.5	9



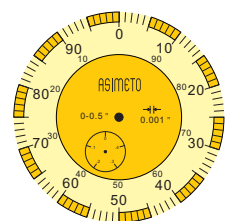
402-06-1



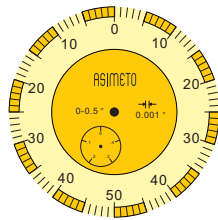
402-06-3



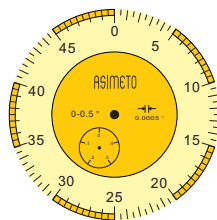
402-06-5



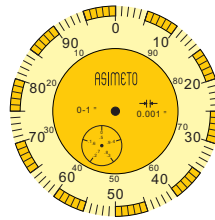
402-12-1



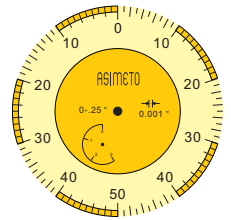
402-12-3



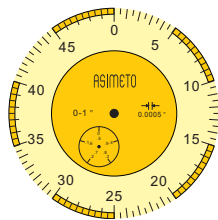
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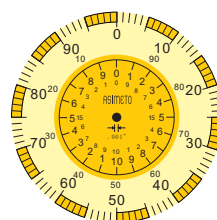
402-26-1



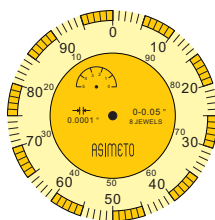
402-26-3



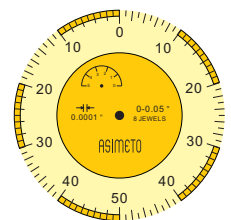
402-26-5



402-51-1



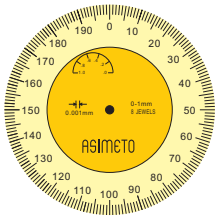
402-01-1



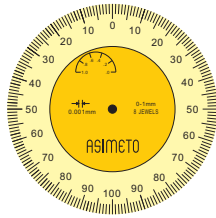
402-01-3



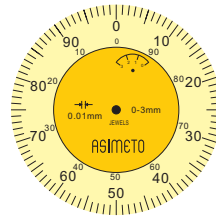
AGD2 Dial Indicators



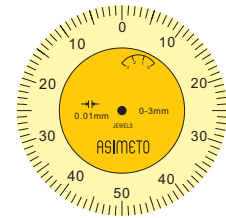
402-01-0
P402-01-0



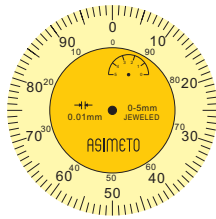
402-01-2



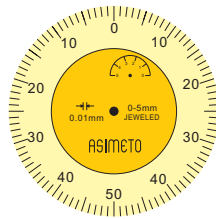
402-03-0
402-03-1



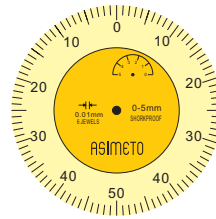
402-03-2
402-03-3



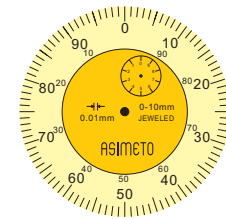
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402-05-1



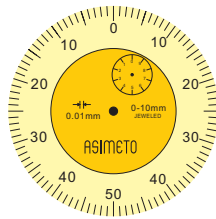
402-05-2
402-05-3



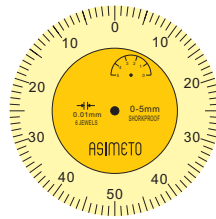
402-05-4



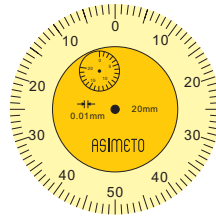
402-10-0
402-10-1



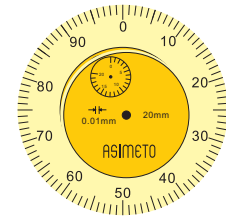
402-10-2
402-10-3



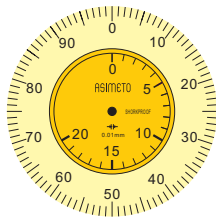
402-10-8



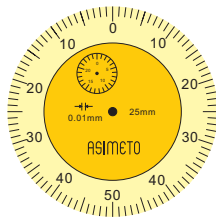
402-20-0
402-20-1



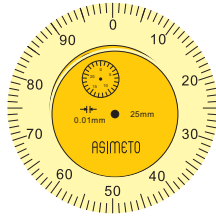
402-20-2



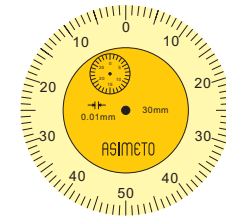
402-20-8



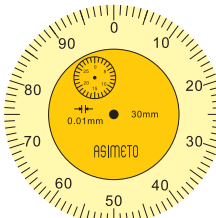
402-25-0
402-25-3



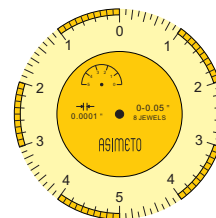
402-25-2



402-30-2



402-30-0



402-01-5

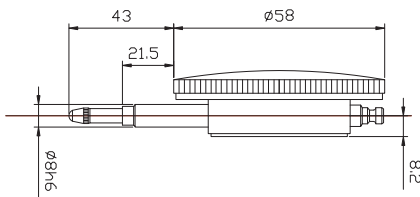


Dial Indicators - One revolution for Error-free Reading

422 Series



422-01-0



FEATURES

- Graduation: 0.01mm
- AGD2 series, dial face dia. Ø2.20" / 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

STANDARD ACCESSORIES

- Warranty card, Calibration certificate

SPECIFICATIONS

Range	Graduation	Dial Reading	Accuracy	Code No.
±0.4mm	0.01mm	40-0-40	0.009mm	422-01-0
G Series				
±0.08mm	0.001mm	90-0-90	0.009mm	422-02-1
±0.2mm	0.005mm	20-0-20	0.009mm	422-03-1
±0.08mm	0.002mm	90-0-90	0.009mm	422-04-1
±0.4mm	0.01mm	40-0-40	0.009mm	422-05-1

Straight Metric Indicator Stem Bushing

500 Series



FEATURES

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

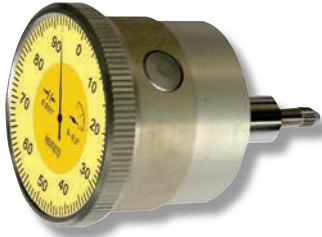
SPECIFICATIONS

Code No.
500-32-0



Back Plunger Type Dial Indicators

422 Series



422-11-1

FEATURES

- Graduation: .001" / 0.01mm
- Easy to read dial face with dial revolution counter
- Back plunger type dial indicators are designed to be used in fixtures and other applications that the dial reading is best viewed from an axis parallel to that of the indicator measuring axis

STANDARD ACCESSORIES

- Warranty card, Calibration certificate

SPECIFICATIONS

Range	Graduation	Accuracy	Range / Rev.	Dial Dia.	Stem Diameter	Dial Reading	Code No.
Inch							
.1"	.001"	±.001"	.1"	1.6"	Ø3/8"	0-100	422-11-1
.2"	.001"	±.001"	.1"	1.6"	Ø3/8"	0-100	422-12-1
Metric							
1mm	0.01mm	0.015mm	1mm	58mm	Ø8mm	0-100	422-11-2
3mm	0.01mm	0.015mm	1mm	58mm	Ø8mm	0-100	422-12-2
5mm	0.01mm	0.02mm	1mm	58mm	Ø8mm	0-100	422-13-2

Back Plunger Dial Indicator Sets

422 Series



FEATURES

- Ideal for fast, accurate set-ups and measurements on lathes, milling machines, planers, shapers, etc. plus various inspection applications
- Each set includes:
 - Test Indicator, fully jeweled
 - Universal clamp
 - Toolpost holder
 - 5 / 16" x 3" holding rod
 - 5 / 16" x 5" holding rod
 - #4-48 thread size
 - "G" clamp
- Lever attachment
- Spherical, tapered and standard anvils are supplied

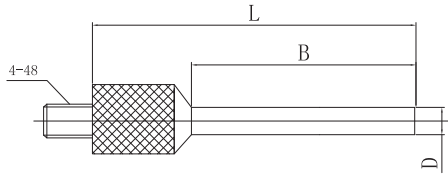
SPECIFICATIONS

Range	Graduation	Accuracy	Reading	Code No.
0- .1"	.001"	±.001"	0-50-0	422-15-1
0- .1"	.001"	±.001"	0-100	422-15-3
0-2mm	0.01mm	±0.015mm	0-50-0	422-15-0
0-2mm	0.01mm	±0.015mm	0-100	422-15-2
Sets				
0- .1"	.001"	±.001"	0-50-0	422-15-7
0- .1"	.001"	±.001"	0-100	422-15-9
0-2mm	0.01mm	±0.015mm	0-50-0	422-15-6
0-2mm	0.01mm	±0.015mm	0-100	422-15-8



Indicator Points

477 Series



SPECIFICATIONS

D	B	L	Code No.
.015	.120	.400	477-01-5
.031	.120	.400	477-02-5
.031	.500	.780	477-03-5
.062	.500	.800	477-04-5
.062	1.00	1.300	477-05-5
.078	1.00	1.300	477-06-5

Dial Indicator Extension Rods & Sets

477 Series



FEATURES

- Use to gain extra length
- 7 / 32" diameter points
- Stainless Steel

SPECIFICATIONS

Length	Inch		Metric	
	Thread	Code No.	Thread	Code No.
1/2"	4-48	477-10-7	M2.5x0.45	477-10-6
3/4"	4-48	477-11-7	M2.5x0.45	477-11-6
1"	4-48	477-12-7	M2.5x0.45	477-12-6
1-1/4"	4-48	477-13-7	M2.5x0.45	477-13-6
1-1/2"	4-48	477-14-7	M2.5x0.45	477-14-6
1-3/4"	4-48	477-15-7	M2.5x0.45	477-15-6
2"	4-48	477-16-7	M2.5x0.45	477-16-6
2-1/2"	4-48	477-17-7	M2.5x0.45	477-17-6
3"	4-48	477-18-7	M2.5x0.45	477-18-6
4"	4-48	477-19-7	M2.5x0.45	477-19-6
6"	4-48	477-20-7	M2.5x0.45	477-20-6
Sets				
each of 1", 2", 3"	4-48	477-03-8	M2.5x0.45	477-04-8



Dial Indicator Points

477 Series

FEATURES

- Each point is carefully manufactured of Stainless Steel
- 4 - 48 Threads for use in AGD 1, 2, 3, 4 indicators

SPECIFICATIONS

Type	Body Diameter (in)	Length (in)	Code No.
Flat	7/32	1/8	477-01-3
Flat	7/32	1	477-02-3
Flat	5/16	.175	477-03-3
Flat	7/32	.175	477-04-3
Flat	7/32	1/4	477-05-3
Flat	7/32	3/8	477-06-3
Flat	7/32	1/2	477-07-3
Flat	7/32	5/8	477-08-3
Flat	7/32	3/4	477-09-3
Flat	7/32	7/8	477-10-3
Flat	7/32	.895	477-11-3
Flat	7/32	1-1/4	477-12-3
Flat	7/32	1-1/2	477-13-3
Ball	7/32	7/32	477-14-3
Ball	7/32	13/32	477-15-3
Ball	7/32	5/8	477-16-3
Ball	7/32	13/16	477-17-3
Ball	7/32	7/8	477-18-3
Ball	3/16	1	477-19-3
Cone	7/32	1/2	477-20-3
Cone	7/32	5/8	477-21-3
Cone	7/32	3/4	477-22-3
Cone	7/32	7/8	477-23-3
Cone	7/32	1	477-24-3



Flat



Ball



Cone

Stem Indicator Points

477 Series



Bent Stem



Double Stem



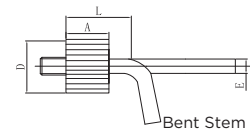
Single Stem

FEATURES

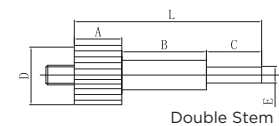
- Each point is carefully manufactured of Stainless Steel
- 4 - 48 Threads for use in AGD 1, 2, 3, 4 indicators

SPECIFICATIONS

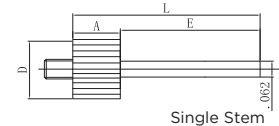
Type	D	A	E	L	C	B	Code No.
Bent Stem	7/32	5/16	1/16	7/16	N/A	N/A	477-01-7
Double Stem	7/32	5/16	1/64	.697	.118	.24	477-02-7
Double Stem	7/32	1/4	0.023	.960	.1	.585	477-03-7
Double Stem	7/32	1/4	0.023	.960	.235	.47	477-04-7
Single Stem	3/16	3/16	1-5/32	1-5/32	N/A	N/A	477-05-7



Bent Stem



Double Stem



Single Stem



Dial Test Indicators

501 / 502 / 511 / 512 Series



Vertical



Horizontal

FEATURES

- Graduation: Inch .0001"; .0005"; Metric 0.002mm; 0.01mm
- Jeweled bearings
- Inch unit comes with $\frac{3}{8}$ " dovetail stems; Metric unit comes with $\varnothing 8$ mm dovetail stems
- Easy to read yellow face
- Horizontal models and Vertical models are available
- Ruby contact point
- 501-02-1 is with copper body

STANDARD ACCESSORIES

- Warranty card, Instruction manual, Calibration certificate

Full Set



Base Set



SPECIFICATIONS

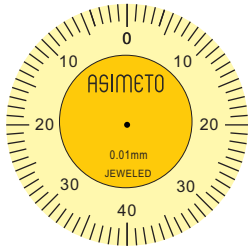
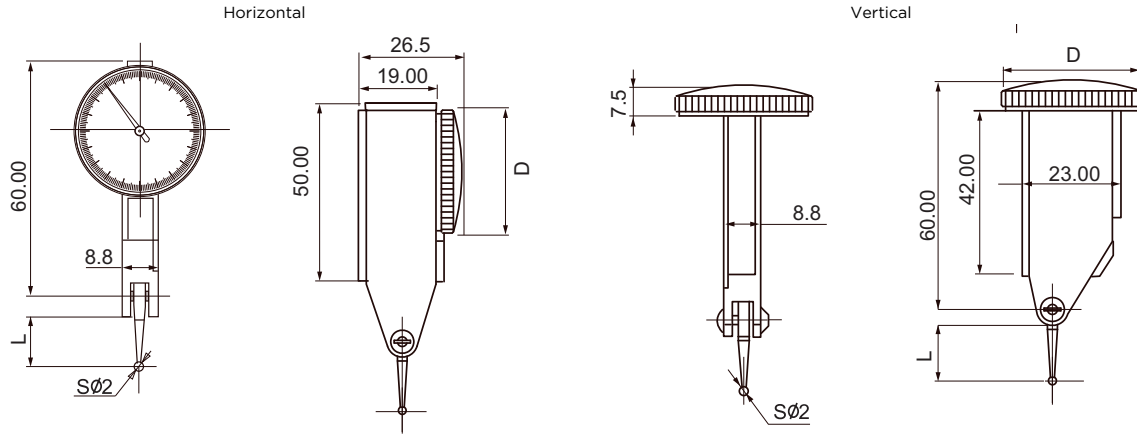
Range	Resolution	Dial Reading	Accuracy	L	Note	D: $\varnothing 32$ mm / $\varnothing 1.26$ " Dia.		D: $\varnothing 40$ mm / $\varnothing 1.57$ " Dia.	
						Code No.	Set Code No.	Code No.	Set Code No.
Inch									
.008"	.0001"	0-4-0	$\pm .0001$ "	12.8mm	Horizontal	501-78-3	501-78-7	-	-
.03"	.0005"	0-15-0	$\pm .0005$ "	13.5mm	Horizontal	501-73-3	501-73-8	-	-
.008"	.0001"	0-4-0	$\pm .0001$ "	12.8mm	Vertical	501-78-5	-	-	-
.03"	.0005"	0-15-0	$\pm .0005$ "	13.5mm	Vertical	501-73-5	-	-	-
.03"	.0005"	0-15-0	$\pm .0005$ "	24mm	Horizontal	501-73-6	-	-	-
Metric									
0.2mm	0.002mm	0-100-0	0.004mm	12.2mm	Horizontal	501-02-1	-	-	-
0.2mm	0.002mm	0-100-0	0.004mm	12.8mm	Horizontal	501-02-2	501-02-7	502-02-2	502-02-7
0.5mm	0.01mm	0-25-0	0.013mm	14.4mm	Horizontal	501-05-2	501-05-7	502-05-2	502-05-7
0.8mm	0.01mm	0-40-0	0.013mm	14.4mm	Horizontal	501-08-2	501-08-7	502-08-2	502-08-7
0.8mm	0.01mm	0-40-0	0.013mm	25.4mm	Horizontal	501-08-8	-	-	-
1.0mm	0.01mm	0-50-0	0.013mm	18.8mm	Horizontal	501-10-2	501-10-7	502-10-2	502-10-7
1.0mm	0.01mm	0-50-0	0.013mm	32.6mm	Horizontal	501-10-8	-	-	-
0.2mm	0.002mm	0-100-0	0.004mm	12.8mm	Vertical	501-02-4	-	502-02-4	-
0.5mm	0.01mm	0-25-0	0.013mm	14.4mm	Vertical	501-05-4	-	502-05-4	-
0.8mm	0.01mm	0-40-0	0.013mm	14.4mm	Vertical	501-08-4	-	502-08-4	-
1.0mm	0.01mm	0-50-0	0.013mm	18.8mm	Vertical	501-10-4	-	502-10-4	-
G Series									
0.2mm	0.002mm	0-100-0	0.004mm	11.8mm	Horizontal	501-02-6	-	502-02-6	-
0.8mm	0.01mm	0-40-0	0.008mm	11.8mm	Horizontal	501-08-6	-	502-08-6	-
IP53 model									
0.2mm	0.002mm	0-100-0	0.004mm	11.8mm	Horizontal	511-02-6	-	512-02-6	-
0.8mm	0.01mm	0-40-0	0.013mm	11.8mm	Horizontal	511-08-6	-	512-08-6	-



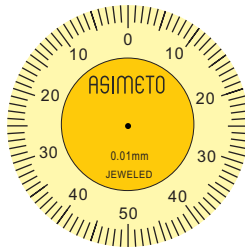
Dial Test Indicators

501 / 502 / 511 / 512 Series

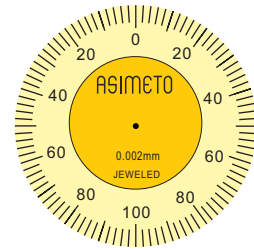
Dimension



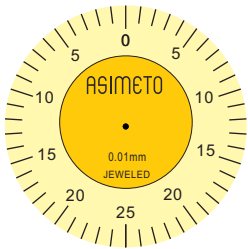
501-08-2 502-08-2
501-08-4 502-08-4
501-08-7 502-08-7
501-08-6 502-08-6
511-08-6 512-08-6



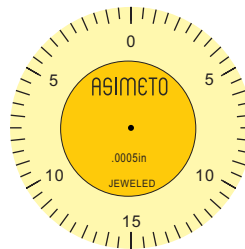
501-10-2 502-10-2
501-10-4 502-10-4
501-10-7 502-10-7



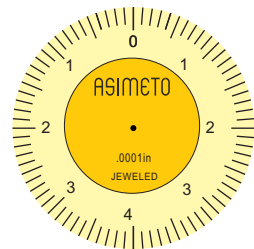
501-02-2 502-02-2
501-02-4 502-02-4
501-02-7 502-02-7
501-02-6 502-02-6
511-02-6 512-02-6



501-05-2 502-05-2
501-05-4 502-05-4
501-05-7 502-05-7



501-73-3 501-73-8
501-73-5 501-73-6



501-78-3
501-78-5
501-78-7



Extended Range Dial Test Indicators

503 / 504 Series



FEATURES

- Graduation:
Inch: .0001" / .0005" / .001"
Metric: 0.002mm / 0.01mm
- Jeweled bearing design and resistant to magnetic fields
- Stem diameter: Inch: 3 / 8", Metric: 8mm
- Ruby contact point swivel 210 degrees
- Horizontal and vertical models are available
- 30 and 38mm dial diameters are available

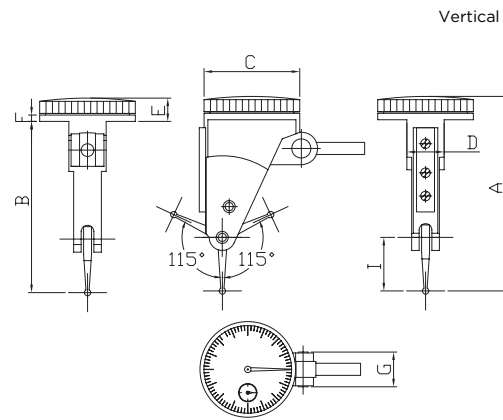
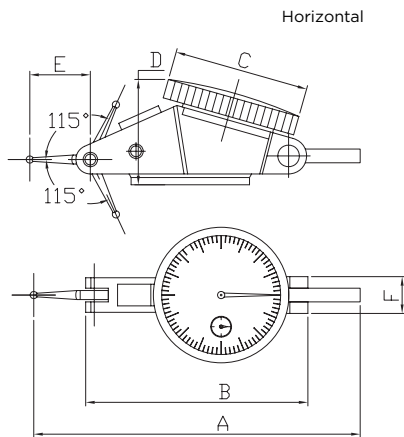
STANDARD ACCESSORIES

- Wrench
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

					Φ 30mm / Φ1.18" Dia.	Φ 38mm / Φ1.50" Dia.
Range	Graduation	Dial Reading	Accuracy	Note	Code No.	Code No.
Inch						
.060"	.001"	0-15-0	±.0012"	Horizontal	503-06-1	-
.060"	.0005"	0-15-0	±.0012"	Horizontal	503-56-1	504-56-1
.060"	.001"	0-15-0	±.0012"	Vertical	503-06-3	-
.060"	.0005"	0-15-0	±.0012"	Vertical	503-56-3	504-56-3
Metric						
1.6mm	0.01mm	0-40-0	0.02mm	Horizontal	503-56-0	504-56-0
1.6mm	0.01mm	0-40-0	0.02mm	Vertical	503-56-2	504-56-2

Dimension



A	B	C	D	E	F
91mm	64mm	30/38mm	36mm	19.7mm	12.3mm

A	B	C	D	E	F	G
66mm	57.5mm	30/38mm	12mm	8.5mm	20mm	12.3mm



Extended Range Dial Test Indicator Sets

504 Series

SET #1

FEATURES

- Doubles the range of most of indicators
- Jeweled movement and easy to read dial
- Range: 0 - 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

STANDARD ACCESSORIES

- Warranty card, Instruction manual, Calibration certificate, Indicator, Wrench
- Height Gauge Bar (1 / 4" x 1 / 2") w / Swivel Clamp w / 5 / 32", 7 / 32", 1 / 4" holes
- Axial support w / 3 / 8" Stem and Dovetail
- Reduction sleeve 3 / 8" to 5 / 32"
- Two dovetail Stems, 3 / 8" & 5 / 32"
- Three contact points: .04" (hardened steel), .08", .12" (Tungsten Carbide) x 5 / 8" long



504-81-1

SPECIFICATIONS

Range	Graduation	Dial Dia.	Accuracy	Indicator Code No.	Set Code No.
1.6mm	0.01mm	30mm	0.002mm	503-56-0	504-81-0
.060"	.0005"	1.5"	±0.0012"	504-56-1	504-81-1
.060"	.0005"	1.0"	±0.0012"	503-56-1	504-81-3
.060"	.001"	1.0"	±0.0012"	503-06-1	504-81-5

SET #2

FEATURES

- Doubles the range of 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

STANDARD ACCESSORIES

- Warranty card, Instruction manual, Calibration certificate, Indicator, Wrench
- Xtra-Mag magnetic base with 2 universal ball sockets
- Micro-fine adjustment screw
- 3-9 / 16" extension arm
- Two dovetail Stems: 3 / 8" & 5 / 32"
- Three contact points: .04" (hardened steel), .08", .12" (Tungsten Carbide) x 5 / 8" long



504-82-1

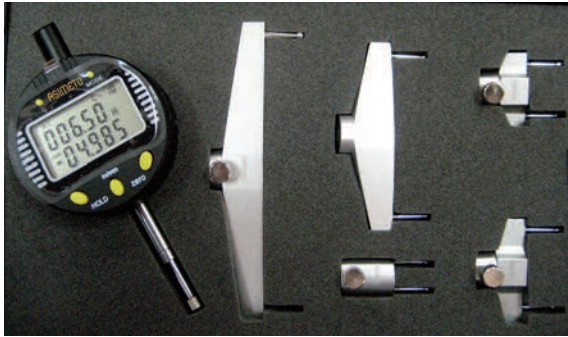
SPECIFICATIONS

Range	Graduation	Dial Dia.	Accuracy	Indicator Code No.	Set Code No.
.060"	.0005"	1.5"	±0.0012"	504-56-1	504-82-1
1.6mm	0.01mm	38mm	0.02mm	504-56-0	504-82-0



Digital Radius Gauge

495 Series



FEATURES

- Resolution: 0.005mm / .0002"
- Inch / Metric conversion
- With 5 Bases: 10mm, 20mm, 30mm, 60mm, 100mm

STANDARD ACCESSORIES

- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Range	Indicator	Accuracy	Code No.
R5-999.99mm	0-12.5mm/0.005mm	0.5mm	495-17-0

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

STANDARD ACCESSORIES

- 6 pcs Feeler Set, Center Locating Feeler, Warranty card, Instruction manual

SPECIFICATIONS

	Dial Range	Accuracy	Code No.
Metric	0.01mm	0.005mm	469-00-6
Inch	0.0015"	±.0002"	469-00-8

Parts

Description	Length	Capacity	Code No.
6 pcs Feeler Set			469-01-1
ID Feeler	2"/50mm	4"/100mm	469-01-2
ID Feeler	4"/100mm	8"/200mm	469-01-3
ID Feeler	6"/150mm	12"/300mm	469-01-4
OD Feeler	2"/50mm	4"/100mm	469-01-5
OD Feeler	4"/100mm	8"/200mm	469-01-6
OD Feeler	6"/150mm	12"/300mm	469-01-7
Center Locating Feeler	-	-	469-01-8
Feeling Rod	-	-	469-01-9



Axial Support Bracket

500 Series



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

SPECIFICATIONS

Shank Dia.	Overall Length	Code No.
3/8"	5 1/4"	500-26-0



Surface Gauges

500 Series

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
- Universal Surface Gauge includes clamp attachment (with 5 / 32" and 15 / 64" holes) for holding indicators, scribers, etc

SPECIFICATIONS

Description	Spindles	Base Dimensions (L x W x H)	Code No.
Small Toolmaker's Surface Gauge	7"	2-1/8" x 1-9/16" x 3/4"	500-28-4
Universal Surface Gauge	9" and 12"	3-5/16" x 2-9/16" x 1-1/16"	500-29-4



Dial Holders

500 Series

FEATURES

- Measuring depth with a dial indicator

SPECIFICATIONS

Base length	Dia. of Hole	Measuring Rods QTY	Code No.
63.5mm	3/8"	10 PCS	500-90-1
100mm	3/8"	10 PCS	500-90-3
63.5mm	8mm	10 PCS	500-90-0
100mm	8mm	10 PCS	500-90-2





Optional Accessories for ASIMETO Test Indicators

500 Series

Contact Points



Indicator Range	Tipp Dia.	Length	Steel	Carbide	Ruby
			Code No.	Code No.	Code No.
0.2mm/0.002mm	Ø1mm	12.8mm	500-75-1	-	-
	Ø2mm	12.8mm	500-76-1	500-76-2	500-76-3
	Ø3mm	12.8mm	500-77-1	500-77-2	-
0.5mm/0.01mm	Ø1mm	14.4mm	500-55-1	-	-
	Ø2mm	14.4mm	500-52-1	500-52-2	500-52-3
	Ø3mm	14.4mm	500-57-1	500-57-2	-
0.8mm/0.01mm	Ø1mm	14.4mm	500-55-1	-	-
	Ø2mm	14.4mm	500-52-1	500-52-2	500-52-3
	Ø3mm	14.4mm	500-57-1	500-57-2	-
1.0mm/0.01mm	Ø1mm	18.8mm	500-11-1	-	-
	Ø2mm	18.8mm	500-12-1	500-12-2	500-12-3
	Ø3mm	18.8mm	500-13-1	500-13-2	-
1.6mm/0.01mm	Ø1mm	18.8mm	500-85-1	-	-
	Ø2mm	18.8mm	500-88-1	500-88-2	500-88-3
	Ø3mm	18.8mm	500-89-1	500-89-2	-
0.008"/0.0001"	Ø1mm	12.8mm	500-75-1	-	-
	Ø2mm	12.8mm	500-76-1	500-76-2	500-76-3
	Ø3mm	12.8mm	500-77-1	500-77-2	-
0.03"/0.0005"	Ø1mm	13.5mm	500-61-1	-	-
	Ø2mm	13.5mm	500-62-1	500-62-2	500-62-3
	Ø3mm	13.5mm	500-63-1	500-63-2	-
0.06"/0.001" 0.06"/0.0005"	Ø1mm	18.0mm	500-81-1	-	-
	Ø2mm		500-86-1	500-86-2	500-86-3
	Ø3mm		500-83-1	500-83-2	-

Dovetail Stem Sets



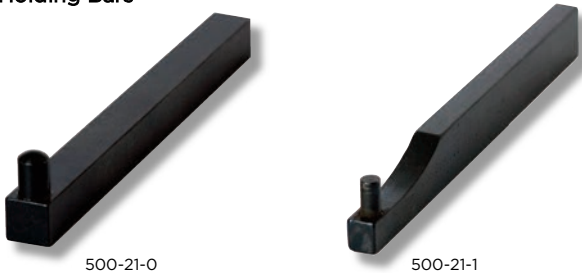
Size	Code No.
3/8"	500-31-1
5/32"	500-31-3
8mm	500-31-0
6mm	500-31-2
4mm	500-31-5

Swivel Clamps



Description	Code No.
For 3/8" & 5/32" dia. Dovetail Stem	500-25-1
For 8mm & 6mm dia. Dovetail Stem	500-25-2
For 8mm & 4mm dia. Dovetail Stem	500-25-3

Holding Bars



500-21-0

500-21-1

Size	Code No.
.25x.5", Length: 2"	500-21-1
.25x.5", Length: 4"	500-21-3
9x9mm, Length: 50mm	500-21-0
9x9mm, Length: 100mm	500-21-2
10x12mm, Length: 50mm	500-21-4
10x12mm, Length: 100mm	500-21-6

Centering Holders

- Allows large diameter cylinders or holes to be centered



Description	Code No.
8mm Dia. Stem	500-35-0
.25" Dia. Stem	500-35-1



Dial Gauge Stands

670 Series



670-02-0



670-03-0



670-04-0



670-05-0



670-06-0

FEATURES

- Both column and metal stage are hardened and precision lapped
- With Ø8mm H7 clamping hole

SPECIFICATIONS

Size	Flatness	Pillar	Max. Measurement Height	Code No.
Ø50mm	≤0.002mm	Ø20 x 170mm	95mm	670-02-0
80 x 80mm	≤0.002mm	Ø25 x 180mm	95mm	670-03-0
115 x 97mm	≤0.002mm	Primary: Ø27.5 x 260mm Secondary: Ø20 x 150mm	200mm	670-04-0
80 x 80mm	0.0015mm	Ø25 x 180mm	95mm	670-05-0
Ø60mm	0.0015mm	Ø25 x 180mm	95mm	670-06-0

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

SPECIFICATIONS

Size	Flatness	Pillar	Max. Measurement Height	Code No.
Smooth Column				
150 x 100 x 40	0.002mm	200 x Ø20mm	130mm	670-13-0
150 x 100 x 40	0.002mm	170 x Ø18mm	95mm	670-14-0
150 x 150 x 50	0.002mm	300 x Ø30mm	230mm	670-31-0
150 x 230 x 50	0.002mm	300 x Ø30mm	230mm	670-32-0
230 x 300 x 90	0.002mm	300 x Ø30mm	230mm	670-33-0
Screw Column				
200 x 150 x 50	0.002mm	300 x Ø30mm	230mm	670-22-0
300 x 200 x 50	0.002mm	300 x Ø30mm	230mm	670-23-0

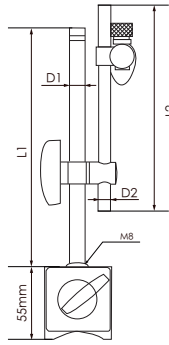


Magnetic Bases

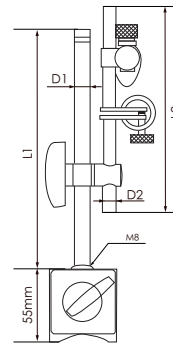
601 Series



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 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
- #601-02-0 / 1 with Fine Adjustment

SPECIFICATIONS

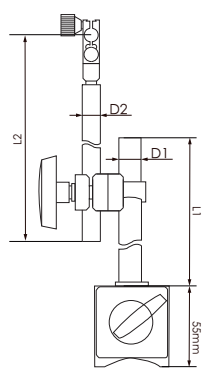
Magnetic Power	Magnetic Base (L X W X H)	Main Stem D1	L1	Sub Pole D2	L2	Dia. of Hole	Remark	Inch Code No.	Metric Code No.
80 kgf	60x50x55mm	Ø12mm	176mm	Ø10mm	165mm	Ø3/8" / Ø8mm		601-01-1	601-01-0
80 kgf	60x50x55mm	Ø12mm	176mm	Ø10mm	150mm	Ø3/8" / Ø8mm	With a fine adjustment	601-02-1	601-02-0
100 kgf	73x50x55mm	Ø12mm	176mm	Ø10mm	165mm	Ø3/8" / Ø8mm	Metal switch	601-03-1	601-03-0

Forced Locking Magnetic Bases

604 Series



604-02-0



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
- 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

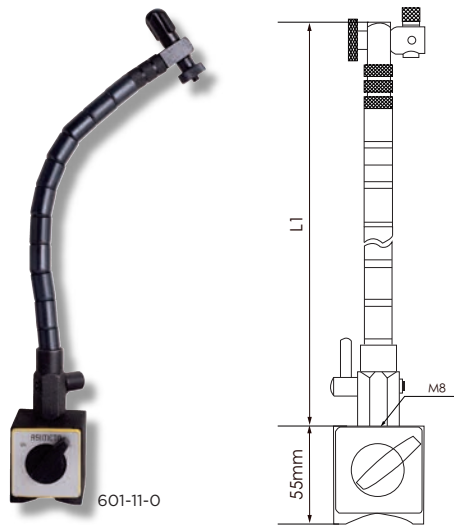
SPECIFICATIONS

Magnetic Power	Magnetic Base (L X W X H)	Main Stem D1	L1	Sub Pole D2	L2	Dia. of Hole	Slot	Code No.
80 kgf	60x50x55mm	Ø12mm	180mm	Ø10mm	205mm	Ø3/8" / Ø8mm	6.5mm	604-01-0
80 kgf	60x50x55mm	Ø14mm	205mm	Ø12mm	210mm	Ø3/8" / Ø8mm	6.5mm	604-02-0
100 kgf	73x50x55mm	Ø16mm	250mm	Ø16mm	245mm	Ø3/8" / Ø8mm	6.5mm	604-03-0
100 kgf	117x50x55mm	Ø18mm	350mm	Ø16mm	245mm	Ø3/8" / Ø8mm	6.5mm	604-04-0



Flexible Arm Magnetic Bases

601 Series



FEATURES

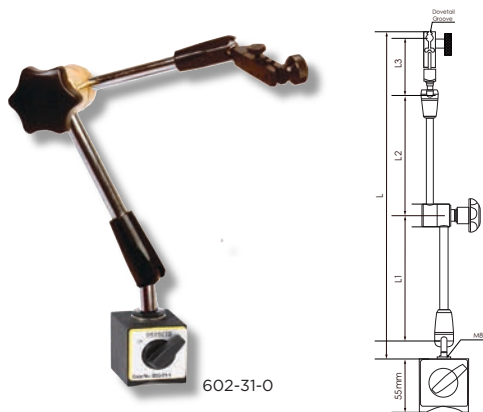
- Accepts test indicators with dovetail clamping mechanism
- Dial gauges can be held by the 3/8" or 8mm diameter stem or by the lug backing plate
- The multi-flex arm is turned rigid when the lever is activated
- The rotary knob switches natural magnet on or off
- The precision surfaces and the bottom V are securely fastened to the ferrous work piece or machine table when the rotary knob is in the on position
- 132 lb / 60kg magnetic pull

SPECIFICATIONS

Magnetic Power	Magnetic Base (L X W X H)	Main Stem Length L1	Dia. of Hole	Code No.
60 kgf	60x50x55mm	360mm	Ø8mm	601-11-0
60 kgf	60x50x55mm	360mm	Ø3/8"	601-11-1

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 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

SPECIFICATIONS

Magnetic Power	Magnetic Base (L X W X H)	Arm				Dia. of Hole	Slot	Code No.
		L1	L2	L3	L			
80 kgf	60x50x55mm	132mm	120mm	51mm	345mm	Ø3/8" / Ø8mm	6.5mm	602-31-0

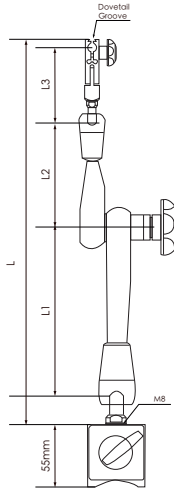


Articulating Arm Magnetic Bases

602 Series



602-02-1



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
- 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

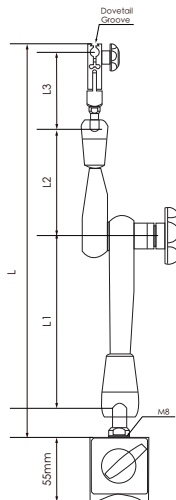
SPECIFICATIONS

Magnetic Power	Magnetic Base (L X W X H)	Arm L1	L2	L3	L	Dia. of Hole	Slot	Code No.
30 kgf	40x30x35mm	56mm	51mm	73mm	205mm	Ø3/8" / Ø8mm	6.5mm	602-01-1
80 kgf	60x50x55mm	110mm	101mm	73mm	310mm	Ø3/8" / Ø8mm	6.5mm	602-02-1
80 kgf	60x50x55mm	147mm	130mm	76mm	385mm	Ø3/8" / Ø8mm	6.5mm	602-03-1
130 kgf	117x50x55mm	285mm	225mm	76mm	635mm	Ø3/8" / Ø8mm	6.5mm	602-05-1



602-05-3

602-04-3



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

SPECIFICATIONS

Magnetic Power	Magnetic Base (L X W X H)	Arm L1	L2	L3	L	Dia. of Hole	Slot	Code No.
40 kgf	36x30x35mm	59mm	47mm	67mm	195mm	Ø3/8" / Ø8mm	6.5mm	602-01-3
60 kgf	58x50x55mm	93mm	73mm	67mm	262mm	Ø3/8" / Ø8mm	6.5mm	602-02-3
80 kgf	60x50x55mm	140mm	103mm	70mm	354mm	Ø3/8" / Ø8mm	6.5mm	602-03-3
100 kgf	74x50x55mm	198mm	174mm	70mm	472mm	Ø3/8" / Ø8mm	6.5mm	602-04-3
40 kgf	DIA40X80mm	114mm	71mm	64mm	255mm	Ø3/8" / Ø8mm	6.5mm	602-05-3

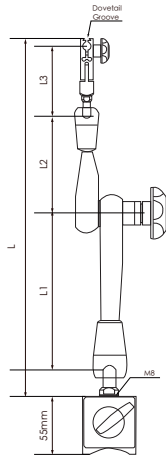


Hydraulic Magnetic Bases

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

SPECIFICATIONS

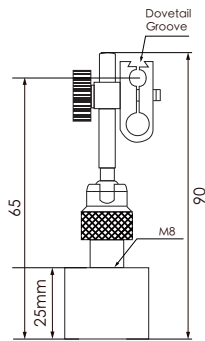
Magnetic Power	Magnetic Base (L X W X H)	Arm				Dia. of Hole		Code No.
		L1	L2	L3	L		Slot	
80 kgf	60x50x55mm	120mm	116mm	76mm	337mm	Ø3/8" / Ø8mm	6.5mm	603-01-0

Permanent Magnetic Base

601 Series



602-12-0



FEATURES

- With permanent magnetic base, without On/Off switch
- Dovetail groove included

SPECIFICATIONS

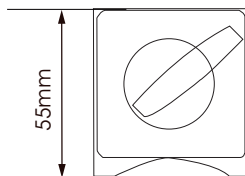
Magnetic Power	Main body	Arm	Dia. of Hole		Code No.
			Hole	Slot	
17 kgf	Ø30x25mm	65mm	Ø8 / Ø6mm	6mm	601-12-0

Magnetic Bases

600 Series



600-01-1



SPECIFICATIONS

Magnetic Power	Dimension	Thread Size	Code No.
30kgf	35x30x35mm (Metal switch)	M6	600-01-0AM
60kgf	60x50x55mm	M8	600-01-1
80kgf	60x50x55mm (Metal switch)	M8	600-01-2
100kgf	73x50x55mm (Metal switch)	M8	600-01-3

Bore Gauges

123	Dial Bore Gauges
125	Digital Bore Gauges
126	Large Diameter Dial Bore Gauges
126	Extension Rods
128	Bore Gauge Zero Checkers
128	Telescoping Gauges

Dial Bore Gauges

483 / 484 Series

FEATURES

- Moveable probe pin with carbide ball
- .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

STANDARD ACCESSORIES

- Refer to the table
- Warranty card, Instruction manual, Calibration certificate



.24-.4" / 6-10mm



.4-.74" / 10-18mm
Plate guide



.7-1.4" / 18-35mm
Canister guide



Over 1.4" / 35mm
Wheel guide



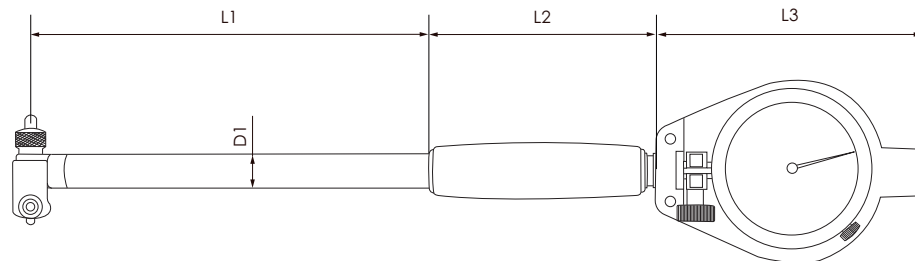
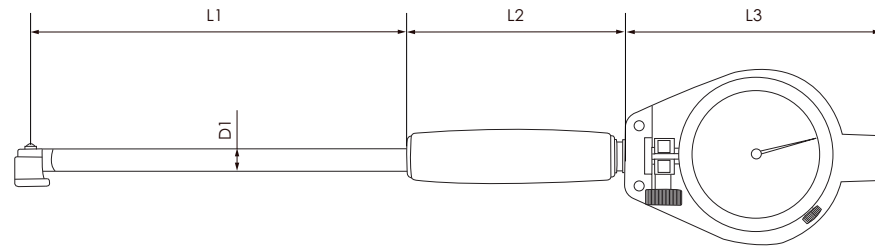
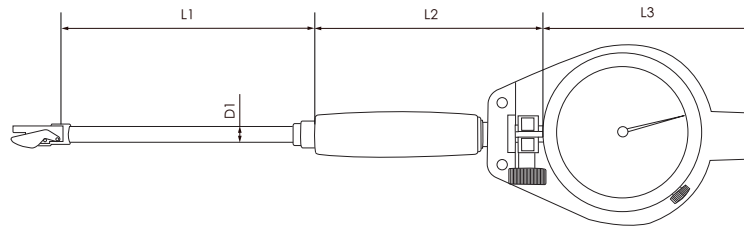
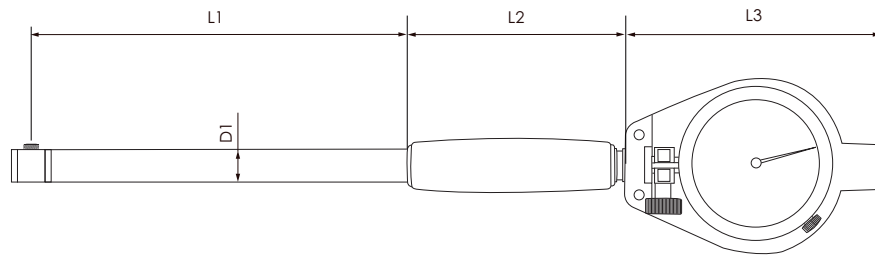
484-22-0

SPECIFICATIONS

Range	Graduation	Dial Travel	Accuracy	Number of Anvils	Number of Spacers	Number of Sub-anvils	Probe Depth	Code No.
Inch								
.24-.4"	.0001"	.05" (AGD2)	±.0002"	9	-	-	1.57"	483-11-1
.4-.7"	.0001"	.05" (AGD2)	±.0003"	9	1	-	4"	483-12-1
.7-1.5"	.0001"	.05" (AGD2)	±.0003"	11	2	-	6"	483-21-1
1.4-2.4"	.0001"	.05" (AGD2)	±.0003"	6	4	-	6"	483-22-1
2-6"	.0001"	.05" (AGD2)	±.0003"	11	4	1	6"	483-31-1
6-10"	.0001"	.05" (AGD2)	±.0003"	6	6	1	16"	483-32-1
10-16"	.0001"	.05" (AGD2)	±.0003"	6	6	2	16"	483-33-1
Metric								
6-10mm	0.001mm	1mm (AGD2)	0.005mm	9	-	-	40mm	483-11-0
10-18mm	0.001mm	1mm (AGD2)	0.007mm	9	1	-	100mm	483-12-0
18-35mm	0.001mm	1mm (AGD2)	0.007mm	9	1	-	150mm	483-21-0
35-50mm	0.001mm	1mm (AGD2)	0.007mm	4	4	-	150mm	483-22-0
50-160mm	0.001mm	1mm (AGD2)	0.007mm	12	4	1	150mm	483-31-0
160-250mm	0.001mm	1mm (AGD2)	0.007mm	5	5	1	400mm	483-32-0
250-500mm	0.001mm	1mm (AGD2)	0.007mm	5	5	2	400mm	483-33-0
Metric								
6-10mm	0.01mm	3mm (AGD1)	0.015mm	9	-	-	40mm	484-11-0
10-18mm	0.01mm	3mm (AGD1)	0.015mm	9	1	-	100mm	484-12-0
18-35mm	0.01mm	3mm (AGD2)	0.020mm	9	2	-	150mm	484-21-0
35-50mm	0.01mm	3mm (AGD2)	0.020mm	4	4	-	150mm	484-22-0
50-160mm	0.01mm	3mm (AGD2)	0.025mm	12	4	1	150mm	484-31-0
160-250mm	0.01mm	3mm (AGD2)	0.025mm	5	5	1	400mm	484-32-0
250-500mm	0.01mm	3mm (AGD2)	0.025mm	5	5	2	400mm	484-33-0
400-600mm	0.01mm	3mm (AGD2)	0.025mm	5	5	2	400mm	484-34-0
Set								
Range	Graduation	Individual Holders			Indicator		Code No.	
18-160mm	0.01mm	18-35mm, 35-50mm, 50-160mm			402-03-2 3mmx0.01mm		484-63-8	
18-160mm	0.001mm	18-35mm, 35-50mm, 50-160mm			402-01-2 1mmx0.001mm		483-63-8	

Dial Bore Gauges

483 / 484 Series



SPECIFICATIONS

Range	L1	L2	L3	D1
.24-.4"/6-10mm	48mm	86mm	68mm	4.5mm
.4-.7"/10-18mm	96mm	86mm	68mm	6mm
.7-1.5"/18-35mm	150mm	100mm	80mm	9mm
1.4-2.4"/35-50mm	150mm	100mm	80mm	12.8mm
2-6"/50-160mm	150mm	100mm	80mm	12.8mm
6-10"/160-250mm	408mm	100mm	80mm	14.5mm
10-16"/250-400mm	408mm	100mm	80mm	14.5mm

Digital Bore Gauges

485 / 486 Series



485-22-0

FEATURES

- Resolution: .00005" / 0.002mm / 0.001mm
- Dynamic carbide contact point
- 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

STANDARD ACCESSORIES

- Refer to the table
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Range	Number of Anvils	Number of Spacers	Range	Number of Anvils	Number of Spacers	Accuracy	Probe Depth	Inch Code No.	Metric Code No.
.24"-.4"	9	-	6-10mm	9	-	0.012mm	1.5"/40mm	485-11-1	485-11-0
.4-.7"	9	1	10-18mm	9	1	0.012mm	4"/100mm	485-12-1	485-12-0
.7-1.5"	11	2	18-35mm	9	2	0.015mm	6"/150mm	485-21-1	485-21-0
1.4-2.4"	6	3	35-50mm	4	4	0.015mm	6"/150mm	485-22-1	485-22-0
2-6"	11	3	50-160mm	12	4	0.018mm	6"/150mm	485-31-1	485-31-0
6-10"	6	5	160-250mm	5	5	0.018mm	16"/400mm	485-32-1	485-32-0
10-16"	6	5	250-400mm	5	5	0.018mm	16"/400mm	485-33-1	485-33-0
Digital Indicators For Digital Bore Gauges									
Range	Resolution	Accuracy	Range	Resolution	Accuracy			Inch	Metric
0-.25"	.00005"	± .0003"	0-6.35mm	0.002mm	0.006mm	-	-	PJ4850-01	PJ4850-02

Metric Range	Number of Anvils	Number of Spacers	Accuracy	Probe Depth	Code No.
6-10mm	9	-	0.005mm	1.5"/40mm	486-11-0
10-18mm	9	1	0.005mm	4"/100mm	486-12-0
18-35mm	9	2	0.007mm	4"/100mm	486-21-0
35-50mm	4	4	0.007mm	6"/150mm	486-22-0
50-160mm	12	4	0.007mm	6"/150mm	486-31-0
160-250mm	5	5	0.007mm	16"/400mm	486-32-0
250-405mm	5	5	0.007mm	16"/400mm	486-33-0
Digital Indicators For Digital Bore Gauges					
Metric Range	Resolution	Accuracy			
0-6.35mm	0.001mm	0.004mm	-	-	PJ4850-03

Large Diameter Dial Bore Gauges

484 Series



FEATURES

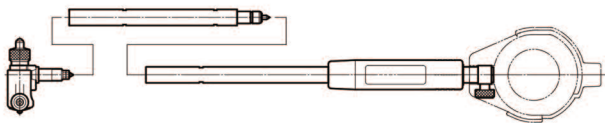
- Carbide tipped contact point, wheel guide
- Equipped with dial indicator #402-10-2

SPECIFICATIONS

Range	Graduation	Dial Travel	Rod Travel	Number of Anvil	Number of Spacers	Number of Sub-anvil	Probe Depth	Code No.
18-50mm	0.01mm	10mm	1.5mm	8	2	1	150mm	484-41-0
30-100mm	0.01mm	10mm	1.8mm	5	3	2	150mm	484-42-0
50-100mm	0.01mm	10mm	4mm	10	2	-	200mm	484-43-0
100-160mm	0.01mm	10mm	4mm	7	4	-	300mm	484-44-0
100-300mm	0.01mm	10mm	3mm	6	4	2	250mm	484-45-0
160-250mm	0.01mm	10mm	4mm	5	4	2	400mm	484-46-0
250-450mm	0.01mm	10mm	6mm	5	4	2	500mm	484-47-0
450-700mm	0.01mm	10mm	8mm	5	4	4	500mm	484-48-0
700-1000mm	0.01mm	10mm	8mm	5	4	5	500mm	484-49-0

Extension Rods

480 Series



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 Rod

SPECIFICATIONS

Length	For Range	Code No.	For Range	Code No.	For Range	Code No.
4.92" / 125mm	.7" - 1.5" / 18 - 35mm	480-01-0	1.4" - 2.4" / 35 - 50mm 2" - 6" / 50 - 160mm	480-01-1	6" - 10" / 160 - 250mm 10" - 16" / 250 - 400mm	480-01-2
9.84" / 250mm	.7" - 1.5" / 18 - 35mm	480-02-0	1.4" - 2.4" / 35 - 50mm 2" - 6" / 50 - 160mm	480-02-1	6" - 10" / 160 - 250mm 10" - 16" / 250 - 400mm	480-02-2
19.69" / 500mm	.7" - 1.5" / 18 - 35mm	480-03-0	1.4" - 2.4" / 35 - 50mm 2" - 6" / 50 - 160mm	480-03-1	6" - 10" / 160 - 250mm 10" - 16" / 250 - 400mm	480-03-2
29.53" / 750mm	-	-	1.4" - 2.4" / 35 - 50mm 2" - 6" / 50 - 160mm	480-04-1	6" - 10" / 160 - 250mm 10" - 16" / 250 - 400mm	480-04-2
39.37" / 1000mm	-	-	1.4" - 2.4" / 35 - 50mm 2" - 6" / 50 - 160mm	480-05-1	6" - 10" / 160 - 250mm 10" - 16" / 250 - 400mm	480-05-2

Accessories

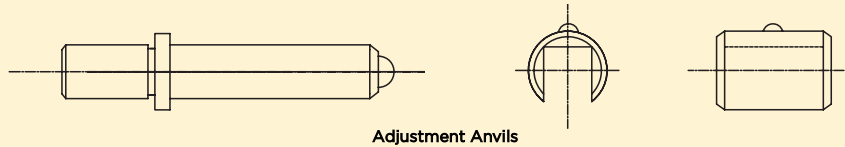


Metric Washers and Sub-Anvils

Washers (mm)							Sub-Anvils (mm)		
Range	Qty.	#1	#2	#3	#4	#5	Qty.	#1	#2
6-10mm									
10-18mm	1	0.5							
18-35mm	2	0.5	1						
35-50mm	4	0.5	1	2	3				
50-160mm	4	0.5	1	2	3		1	55	
160-250mm	5	0.5	1	2	3	6	1	50	
250-400mm	5	0.5	1	2	3	6	2	50	100

Inch Washers and Sub-Anvils

Washer Dimensions (in)							Sub-Anvils (in)			
Range	Washer Qty.	#1	#2	#3	#4	#5	#6	Extension Rod Qty.	#1	#2
.24-.4"										
.4-.7"	1	0.02								
.7-1.5"	2	0.02	0.04							
1.4-2.4"	4	0.02	0.04	0.08	0.12					
2-6"	4	0.02	0.04	0.08	0.12			1	2	
6-10"	6	0.02	0.04	0.08	0.1	0.2	0.3	1	2	
10-16"	6	0.02	0.04	0.08	0.1	0.2	0.3	2	2	4



Metric Adjustment Anvils

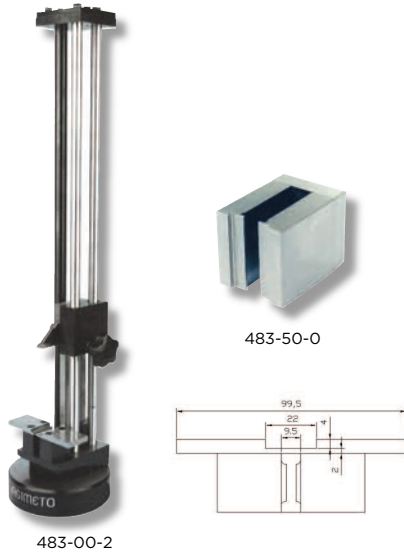
Anvils Range (mm)													
Range	Qty.	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12
6-10mm	9	6	6.5	7	7.5	8	8.5	9	9.5	10			
10-18mm	9	10	11	12	13	14	15	16	17	18			
18-35mm	9	18	20	22	24	26	28	30	32	34			
35-50mm	4	35	40	45	50								
50-160mm	12	50	55	60	65	70	75	80	85	90	95	100	105
160-250mm	5	160	170	180	190	200							
250-400mm	5	250	260	270	280	290							

Inch Adjustment Anvils

Anvils Range (in)												
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					

Bore Gauge Zero Checkers

483 Series



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

SPECIFICATIONS

Description	Code No.
18mm - 400mm / .7" - 16"	483-00-2
Interchangeable Supporting Blocks	483-50-0

Telescoping Gauges

487 Series



FEATURES

- Spring-loaded plunger expands within the bore (or groove), allowing determination of the internal diameter
- With a knurled clamp

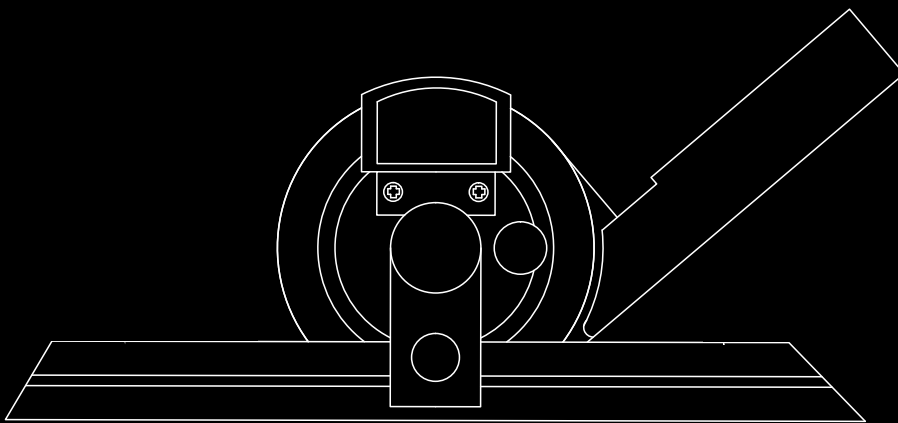
SPECIFICATIONS

Model	Inch		Metric		Code No.	Depth	Code No.
	Range	Range	Range	Range			
A	5/16" - 1/2"	8-12.7mm	4.2"/107mm	487-01-1	12"/300mm	487-01-3	
B	1/2" - 3/4"	12.7-19mm	4.4"/112mm	487-02-1	12"/300mm	487-02-3	
C	3/4" - 1-1/4"	19-32mm	4.4"/112mm	487-03-1	12"/300mm	487-03-3	
D	1-1/4" - 2-1/8"	32-54mm	5.85"/150mm	487-04-1	12"/300mm	487-04-3	
E	2-1/8" - 3-1/2"	54-90mm	5.85"/150mm	487-05-1	12"/300mm	487-05-3	
F	3-1/2" - 6"	90-150mm	5.85"/150mm	487-06-1	12"/300mm	487-06-3	
SETS							
6 pcs (A, B, C, D, E, F)	5/16"-6"	8-150mm		487-86-9			
5 pcs (B, C, D, E, F)	1/2"-6"	12.7-150mm		487-85-9			



Other Gauges

- 131 Protractors
- 131 Universal Bevel Protractors
- 131 Universal Angle Protractor
- 132 Dial Protractor
- 132 Digital Protractor
- 133 Depth and Angle Gauges
- 133 Combination Square Sets
- 134 Steel Squares
- 134 Granite Squares
- 135 Straight Knife Edges
- 135 5-pcs Square Set
- 135 Die Makers Square Set
- 136 Cast Vee Blocks
- 136 1-2-3, 2-3-4 & 2-4-6 Blocks
- 137 Magnetic V-Blocks
- 137 V-Blocks with Clamp
- 138 Angle Gauges
- 139 Magnetic Induction Block
- 139 Thin Type Magnetic Holder
- 140 Magnetic V - Block
- 140 Sine Bar Riser Kit
- 141 Thread Pitch Gauges
- 142 Radius Gauges
- 142 Center Gauge
- 143 Spring Dividers and Calipers
- 144 Digital Protractors - Level Type
- 145 Precision Levels
- 146 High Precision Metric Parallels
- 146 Precision Parallel Sets
- 147 Granite Surface Plates
- 147 Granite Plate Stands





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

SPECIFICATIONS

Description	Code No.
Protractor Resolution: 0°-90°, 90°-180°, 180°-90°, 90°-0°	490-01-1
Semi-circle: 0°-180°, 180°-0°	490-01-2

Universal Bevel Protractors 490 Series



490-06-5

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

STANDARD ACCESSORIES

- Base, Blades, Bevel Blades, Warranty card, Instruction manual

SPECIFICATIONS

Description	Code No.
With three blades: 150mm/6", 200mm/8", 300mm/12"	490-06-5

Universal Angle Protractor 490 Series



490-05-2

FEATURES

- Graduation: 2'
- With fine adjustment device
- Measuring surface
- The combination of flexible measuring way
- Accuracy: ±2 min

STANDARD ACCESSORIES

- Base, Blades, Bevel Blades, Warranty card, Instruction manual

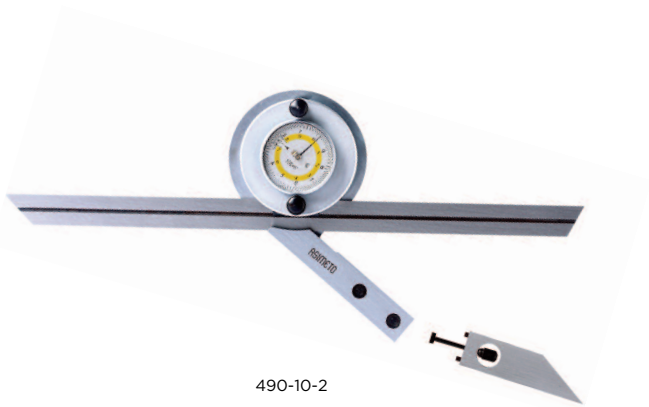
SPECIFICATIONS

Description	Code No.
With 90° Square, Ruler	490-05-2



Dial Protractor

490 Series



490-10-2

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

STANDARD ACCESSORIES

- Base, Blades (3 pcs), Bevel Blade
- Warranty card, Instruction manual

SPECIFICATIONS

Blades Included	Code No.
With three blades: 150mm/6", 200mm/8", 300mm/12"	490-10-2

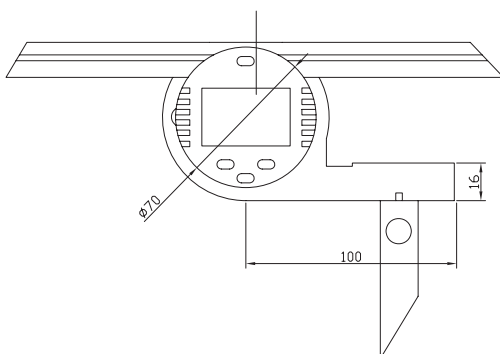
Digital Protractor

490 Series



490-15-2

LCD Display Screen



FEATURES

- Resolution: 10"
- 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

STANDARD ACCESSORIES

- Base, Blades (2 pcs), Bevel Blade, Setting Square
- Warranty card, Instruction manual

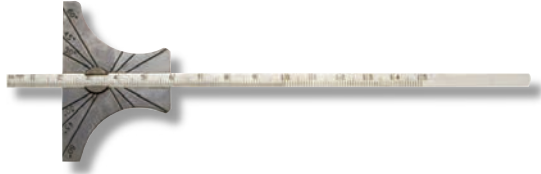
SPECIFICATIONS

Blades Included	Code No.
With two blades: 150mm/6", 300mm/12"	490-15-2



Depth and Angle Gauges

607 Series



FEATURES

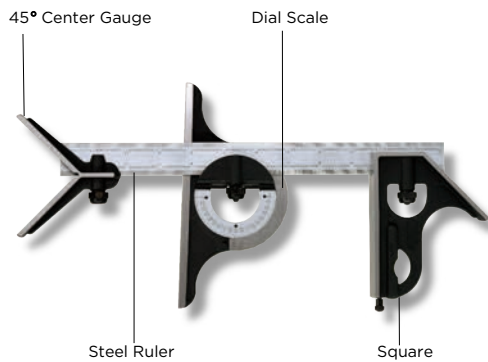
- Hardened steel head with 2-1/2" base
- Angles: 30°, 45°, 60° both sides
- Stainless steel blade: 6" x 7/32" with 32nds and 64ths graduations
- Rod: Non-graduated, for holes under 3/32" diameter

SPECIFICATIONS

Range	Code No.
Head With Blade	607-58-0
Head With Blade and Rod	607-58-1

Combination Square Sets

490 Series



490-20-8

FEATURES

- Graduation:
 - Protractor: 1°
 - Blade: 1mm, 64ths, 32nds, 1/2mm
- 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

SPECIFICATIONS

Description	Blade Length	Code No.
4 pcs Set	12"/300mm	490-20-8
4 pcs Set (With 4R ruler)	12"/300mm	490-21-8
4 pcs Set (With 16R ruler)	12"/300mm	490-22-8



Steel Squares

639 Series



639-23-0



639-24-4

FEATURES

- Made of precision ground hardened Stainless Steel
- Accuracy according to DIN875

SPECIFICATIONS

Inch Size	Metric Size	Regular Type		Bevel Type	
		Squareness	Code No.	Squareness	Code No.
General Type Squares					
2" x 1.6"	50 x 40mm	0	639-21-4	00	639-21-0
3" x 2"	75 x 50mm	0	639-22-4	00	639-22-0
4" x 2.75"	100 x 70mm	0	639-23-4	00	639-23-0
6" x 4"	150 x 100mm	0	639-24-4	00	639-24-0
8" x 5"	200 x 130mm	0	639-25-4	00	639-25-0
10" x 6.5"	250 x 160mm	0	639-26-4	00	639-26-0
12" x 8"	300 x 200mm	0	639-27-4	00	639-27-0
16" x 10"	400 x 265mm	1	639-28-4	-	-
20" x 12"	500 x 330mm	1	639-29-4	-	-
Squares with Extra Base					
3" x 2"	75 x 50mm	0	639-53-0	1	639-53-1
4" x 2.75"	100 x 70mm	0	639-54-0	1	639-54-1
6" x 4"	150 x 100mm	0	639-55-0	1	639-55-1
8" x 5"	200 x 130mm	0	639-56-0	1	639-56-1
10" x 6.5"	250 x 160mm	0	639-57-0	1	639-57-1
12" x 8"	300 x 200mm	0	639-58-0	1	639-58-1
16" x 10"	400 x 265mm	1	639-59-0	-	-
20" x 12"	500 x 330mm	1	639-60-0	-	-

Granite Squares

639 Series



639-03-0

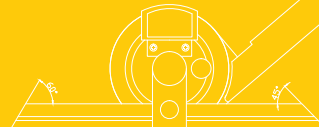
FEATURES

- Made of wear resistant black granite
- The flatness of the datum surfaces is according to DIN876 / 00
- Squareness is according to DIN875

SPECIFICATIONS

Just Size	Thickness	Accuracy	Code No.
200 x 150mm	50mm	00	639-01-0
300 x 200mm	50mm	00	639-02-0
400 x 250mm	50mm	00	639-03-0
500 x 300mm	60mm	00	639-04-0
600 x 400mm	70mm	00	639-05-0
800 x 500mm	80mm	00	639-06-0
1000 x 600mm	100mm	00	639-07-0

Just Size	Thickness	Accuracy	Code No.
400 x 400mm	40mm	00	639-01-1



Straight Knife Edges

639 Series



639-73-0

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

SPECIFICATIONS

Inch Size	Metric Size	Squareness	Code No.
3"	75mm	00	639-71-0
4"	100mm	00	639-72-0
5"	125mm	00	639-73-0
6"	150mm	00	639-74-0
8"	200mm	00	639-75-0
12"	300mm	00	639-76-0
16"	400mm	00	639-77-0
20"	500mm	00	639-78-0
24"	600mm	00	639-79-0

5-pcs Square Set

639 Series



639-00-8

SPECIFICATIONS

Code No.		639-00-8
Description	Qty.	
Straight edge 100 mm	1	
Precision square 75 x 50 mm	1	
Precision square 40 x 28 mm	1	
Precision square 25 x 20 mm	1	
Scriber 9 x 9 x 60 mm	1	

Die Makers Square Set

606 Series



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"

SPECIFICATIONS

Description	Included	Code No.
Diemaker's Square Set	3 hardened beveled edge squares 1pc, Squares 3pcs	606-67-0



Cast Vee Blocks

607 Series



FEATURES

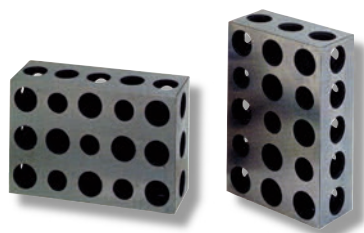
- Precision ground matched pairs made of Cast Iron Grade 20
- Supports objects that are cylindrical and 90° or less
- Accuracy:
 - Flatness: .0005"
 - Parallelism: .0008"
 - Perpendicularity: .0008"

SPECIFICATIONS

Length	V-Opening	Height	Width	V-Cap.	Code No.
2"	7/8"	1-1/4"	15/16"	1-5/32"	607-70-0
3"	1-3/4"	2-3/8"	1-5/16"	2-7/16"	607-71-0
4"	2-3/16"	2-9/16"	1-9/16"	3-1/16"	607-72-0
5"	2-7/16"	3-1/16"	1-15/16"	3-3/8"	607-73-0
6"	3-1/16"	3-1/2"	2-6/17"	4-1/4"	607-74-0

1-2-3, 2-3-4 & 2-4-6 Blocks

607 Series



FEATURES

- Height accuracy in Pair: + / - .0001"
- Hardened steel to HRC 55-60, ground to surface finish 6-16 microinches
- Squareness: 0.0002"
- Parallelism: .0001"

SPECIFICATIONS

Description	Code No.
1-2-3 Block 5 tapped holes (3/8"-16), 18 untapped holes (0.340" dia.)	607-01-0
2-3-4 Block 5 tapped holes (3/8"-16), 18 untapped holes (0.340" dia.)	607-01-1
2-4-6 Block 5 tapped holes (5/8"-11), 18 untapped holes (0.520" dia.)	607-01-2

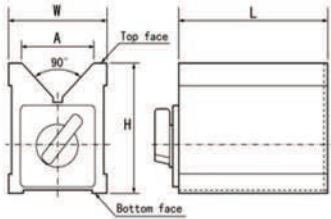


Magnetic V-Blocks

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

SPECIFICATIONS

Magnetic Power	Magnetic Base (L X W X H)	A	Weight	Code No.	
				One Pair	Code No.
60 kgf	70x60x72mm	36mm	1.6kg	609-10-0	609-10-1
70 kgf	80x56x72mm	36mm	1.7kg	609-11-0	609-11-1
80 kgf	125x60x72mm	36mm	3.0kg	609-12-0	609-12-1
70 kgf	100x70x95mm	46mm	4.0kg	609-13-0	609-13-1
80 kgf	115x75x100mm	50mm	5.2kg	609-14-0	609-14-1

V-Blocks with Clamp

606 Series



606-60-0



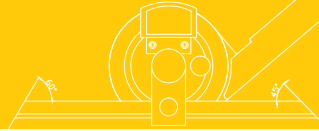
606-60-6

FEATURES

- Made with hardened steel at HRC55-62
- With spring clamping bar
- Delivered in pairs
- Accuracy: Parallelism & Squareness: 0.005mm

SPECIFICATIONS

Dimension	For Shaft Dia.	Code No.
Plain Clamp		
30x35x35mm	25mm	606-60-0
60x60x50mm	55mm	606-61-0
105x105x78mm	100mm	606-62-0
Deep Throat Clamp		
40x35x35mm	25mm	606-60-6
70x45x41mm	40mm	606-60-2
70x63x44mm	40mm	606-60-4



Angle Gauges

605 Series



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

SPECIFICATIONS

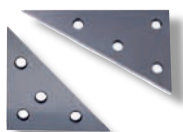
Description	No. of Leaves	Code No.
Angle gauges set	18	605-01-0

Individual Gauges Included

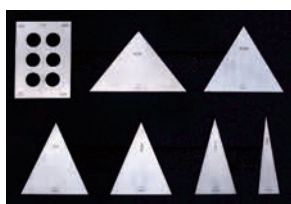
Primary Angle	1/2 Primary Angle	Accuracy	Complementary Angle	Primary Angle	1/2 Primary Angle	Accuracy	Complementary Angle
5° D	2°30'	±5'	175° D	50° D	25° D	±5'	130° D
10° D	5° D	±5'	170° D	55° D	27°30'	±5'	125° D
15° D	7°30'	±5'	165° D	60° D	30° D	±5'	120° D
20° D	10° D	±5'	160° D	65° D	32°30'	±5'	115° 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



605-06-0



605-06-2



605-06-3

FEATURES

- Made of hardened steel. Hardness HRC 55
- Accuracy according to DIN / ISO 3650

SPECIFICATIONS

10 pcs Set

Length x Thickness	Angle	Accuracy	Code No.
3" x 1/4"	1°- 5° by step of 1° 10°- 30° by step of 5°	±0.01°	605-06-0

2 pcs Set

Size	Thickness	Angle	Accuracy	Code No.
3x3x4-3/8"	1/4"	45°x 45°x 90°	±0.01°	605-06-2
2x3-15/16x4"	1/4"	30°x 60°x 90°		

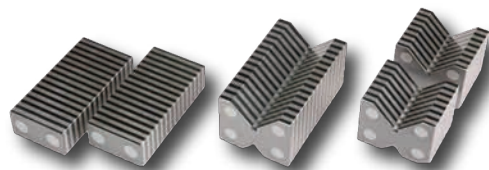
7 pcs Set

Grade	Individual Blocks Included	Code No.
DIN/1	15°10', 30°20', 45°30' 50°, 60°40', 75°50', 90°	605-06-3



Magnetic Induction Block

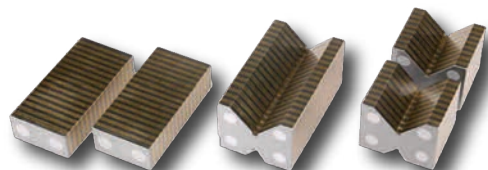
609 Series



609-30-0

609-31-0

609-32-0



609-30-1

609-31-1

609-32-1

FEATURES

- Used to extend magnetic force to hold bar, or irregular shaped work pieces

SPECIFICATIONS

Dimensions	Material	Scope Of Application	Code No.
100x50x25mm	Steel/Aluminum	-	609-30-0
100x50x25mm	Steel/Copper	-	609-30-1
100x58x46mm	Steel/Aluminum	Ø5-48mm	609-31-0
100x58x46mm	Steel/Copper	Ø5-48mm	609-31-1
50x58x46mm	Steel/Aluminum	Ø5-48mm	609-32-0
50x58x46mm	Steel/Copper	Ø5-48mm	609-32-1

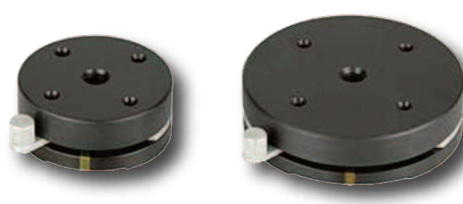
Thin Type Magnetic Holder

609 Series



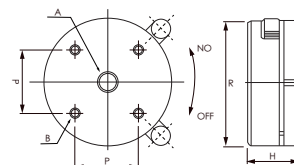
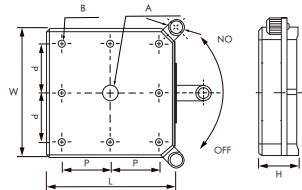
609-40-0

609-40-2



609-41-0

609-41-1



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 lever
- Thin and powerful magnetic force
- Dry specification

SPECIFICATIONS

Holding Power	Dimension					Thread		Code No.
	W	L	H	P	R	A	B	
6.5KG	45mm	45mm	20mm	25mm	-	M8	4-M4	609-40-0
20KG	65mm	65mm	20mm	25mm	-	M8	8-M4	609-40-1
25KG	90mm	90mm	20mm	25mm	-	M8	8-M4	609-40-2
80KG	125mm	125mm	30mm	50mm	-	M16	8-M6	609-40-3
6KG	-	-	-	20mm	50mm	M8	4-M4	609-41-0
20KG	-	-	-	20mm	75mm	M8	4-M4	609-41-1

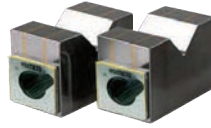


Magnetic V - Block

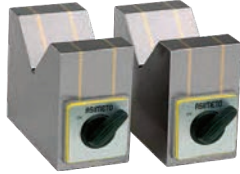
609 Series



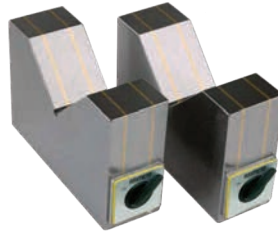
609-20-1



609-20-0



609-21-0



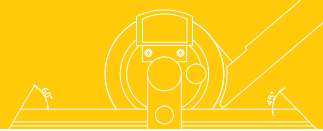
609-22-0

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 lever can be loaded and unloaded
- Constitute a set of two

SPECIFICATIONS

Dimensions	Power	Scope Of Application	Code No.
70x40x50mm	15 kgf	Ø5-48mm	609-20-1
70x40x50mm	15 kgf	Ø5-48mm	609-20-0
100x50x80mm	20 kgf	Ø5-80mm	609-21-0
100x50x80mm	23 kgf	Ø6-100mm	609-22-0



Thread Pitch Gauges

605 Series



FEATURES

- Each individual gauge is stamped with the thread pitch size
- See chart below for different thread forms

SPECIFICATIONS

Metric Screw Pitch Gauges (60°)

Range	No. of Leaves	Composition of Leaves	Code No.
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	605-50-0
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	605-51-0
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	605-52-0
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	605-53-0

Unified Screw Pitch Gauges (60°)

Range	No. of Leaves	Composition of Leaves	Code No.
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	605-50-2
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	605-51-2

Metric and Unified Screw Pitch Gauges (60°)

Range	No. of Leaves	Composition of Leaves	Code No.
0.4 - 7mm 4 - 42 TPI	51	605-52-0 and 605-50-2	605-50-8

Whitworth Screw Pitch Gauges (55°)

Range	No. of Leaves	Composition of Leaves	Code No.
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	605-50-5
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, 48, 60 TPI	605-51-5



Radius Gauges

605 Series



605-42-0

FEATURES

- Size is permanently marked on each gauge leaf
- Gauge profiles have both convex and concave radii

SPECIFICATIONS

Range	Qty.	Composition of Leaves	Remark	Code No.
1/32" - 17/64"	16 Slise	1/32" - 71/64" x 1/64" step	90° arc.	605-40-1
1/32" - 1/4"	15 Slise	1/32" - 1/4" x 1/64" step	180° arc.	605-41-1
17/64" - 1/2"	16 Slise	17/64" - 1/2" x 1/64" step	180° arc.	605-42-1
9/32" - 33/64"	16 Slise	9/32" - 33/64" x 1/64" step	90° arc.	605-43-1
1/64" - 1/2"	25 Slise	1/64" - 17/64" x 1/64" step, 9/32" - 1/2" x 1/32" step	-	605-44-1
0.5 - 13mm	26 Slise	0.5 - 13mm x 0.5mm step	90° arc.	605-41-0
1 - 7mm	17 pairs	1-3mm x 0.25mm step, 3.5-7mm x 0.5mm step	180° arc.	605-42-0
7.5 - 15mm	16 pairs	7.5 - 15mm x 0.5mm step	180° arc.	605-43-0
15.5 - 25mm	15 pairs	15.5 - 20mm x 0.5mm step, 21-25mm x 1mm step	180° arc.	605-44-0

Center Gauge

605 Series



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

SPECIFICATIONS

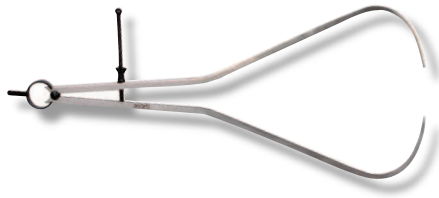
Code No.

605-60-0



Spring Dividers and Calipers

606 Series



606-32-2



606-32-4



606-32-0

FEATURES

- Manufactured from hardened durable material
- Contact surfaces are rounded

SPECIFICATIONS

Inch	Metric	Spring Divider	Outside Spring Caliper	Inside Spring Caliper
Range	Range	Code No.	Code No.	Code No.
6"	150mm	606-31-0	606-31-2	606-31-4
8"	200mm	606-32-0	606-32-2	606-32-4
10"	250mm	606-33-0	606-33-2	606-33-4
12"	300mm	606-34-0	606-34-2	606-34-4
16"	400mm	606-35-0	606-35-2	606-35-4
20"	500mm	606-36-0	606-36-2	606-36-4
24"	600mm	606-37-0	606-37-2	606-37-4



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. The machined Aluminum frame is rigid and light with a precise platform that allows the sensor and its microprocessor circuit to provide high accuracy throughout the entire 360° range
- 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

STANDARD ACCESSORIES

- Battery, Warranty card, Instruction manual

SPECIFICATIONS

Code No.	490-16-0 / 490-16-2
Range	360°
Resolution	0.1°
Operating Temp. Range	23°F-122°F/-5°C-50°C
Power	3V, Lithium cell
Accuracy	±0.1°
Size	152x63.8x60mm
Weight	343g



Precision Levels

606 Series



606-53-0



606-51-4

FEATURES

- All measuring surfaces of the square models are precision ground to facilitate readings at both horizontal and vertical planes

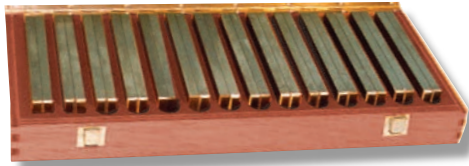
SPECIFICATIONS

Range	Sensitivity	Code No.
Straight Models		
150 x 47mm	0.10mm/m	606-50-3
150 x 47mm	0.02mm/m	606-50-4
150 x 47mm	0.05mm/m	606-50-6
200 x 47mm	0.10mm/m	606-51-3
200 x 47mm	0.02mm/m	606-51-4
200 x 47mm	0.05mm/m	606-51-6
300 x 48 x 45mm	0.10mm/m	606-52-3
300 x 48 x 45mm	0.02mm/m	606-52-4
300 x 48 x 45mm	0.05mm/m	606-52-6
Square Models		
200 x 200 x 40mm	0.10mm/m	606-53-0
200 x 200 x 40mm	0.02mm/m	606-53-2
200 x 200 x 40mm	0.05mm/m	606-53-5
300 x 300 x 46mm	0.10mm/m	606-54-0
300 x 300 x 46mm	0.02mm/m	606-54-2
300 x 300 x 46mm	0.05mm/m	606-54-5

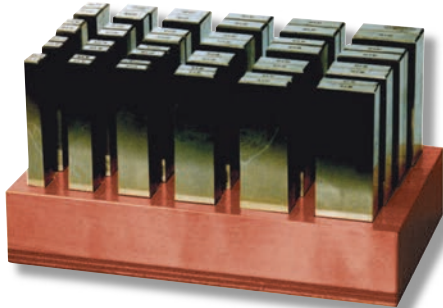


High Precision Metric Parallels

663 Series



663-02-0



663-12-0

FEATURES

- Made of hardened steel. Hardness HRC 48
- Tolerance of Height: $\pm 0.01\text{mm}$
- Tolerance in pairs IT5

SPECIFICATIONS

Height of Individual Blocks	Length	Width	Number of Pairs	Code No.
14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40mm	120mm	10mm	12	663-01-0
14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40, 45, 50mm	150mm	10mm	14	663-02-0

Width x Height of Individual Blocks	Length	Number of Pairs	Code No.
2x5, 3x6, 4x7, 5x8, 6x9, 2x10, 3x11, 4x12, 5x13, 6x14mm, 2x15, 3x16, 4x17, 5x18, 6x19, 2x20, 3x21, 4x22, 5x23, 6x24mm	100mm	20	663-11-0
8x11, 10x13, 12x15, 14x17, 8x16, 10x18, 12x20, 14x22, 8x21, 10x23, 12x25, 14x27mm	125mm	24	663-12-0
8x26, 10x28, 12x30, 14x32, 8x31, 10x33, 12x35, 14x37, 8x36, 10x38, 12x40, 14x42mm	150mm	24	663-13-0

Precision Parallel Sets

607 Series



FEATURES

- hardened and ground high grade alloy steel
- Hardness 52-58 HRC
- 6" length
- Height specifications consistent within each pair
- Absolute heights are nominal
- Supplied in durable molded plastic case

SPECIFICATIONS

	Description	Thickness	Parallelism	Paired Accuracy	Width Accuracy	Length Accuracy	Code No.
8 Pair Parallel Set	7/8" to 1-3/4" in 1/8" increments.	1/2"	$\pm 0.0003"$	$\pm 0.0003"$	$\pm 0.0008"$	$\pm 0.0006"$	607-08-0
9 Pair Parallel Set	3/4" to 1-3/4" in 1/8" increments.	1/4"	$\pm 0.0002"$	$\pm 0.0002"$	$\pm 0.0008"$	$\pm 0.0006"$	607-09-0
10 Pair Parallel Set	1/2" to 1-5/8" in 1/8" increments.	1/8"	$\pm 0.0002"$	$\pm 0.0002"$	$\pm 0.0008"$	$\pm 0.0006"$	607-10-0
10 Pair Parallel Set	1/2" to 1-5/8" in 1/8" increments.	1/32"	$\pm 0.0002"$	$\pm 0.0002"$	$\pm 0.0008"$	$\pm 0.0006"$	607-10-1



Granite Surface Plates

630 / 631 Series



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

SPECIFICATIONS

Inch Size	Grade AA
	Code No.
8x12x3"	631-10-9
9x12x3"	631-12-9
12x12x3"	631-14-9
12x18x4"	631-16-9
18x18x4"	631-18-9
18x24x4"	631-20-9
24x24x5"	631-22-9
24x30x5"	631-24-9
24x36x6"	631-26-9
24x48x8"	631-28-9
30x36x6"	631-30-9
30x48x8"	631-32-9
30x60x12"	631-34-9
36x36x6"	631-36-9
36x48x8"	631-38-9

Metric Size	Grade 00
	Code No.
400x400x100mm	630-09-9
300x300x100mm	630-10-9
450x300x100mm	630-12-9
600x450x100mm	630-14-9
600x600x130mm	630-16-9
750x500x130mm	630-18-9
1000x750x150mm	630-20-9
1000x1000x150mm	630-22-9
1500x1000x200mm	630-24-9
2000x1000x250mm	630-26-9
2000x1500x300mm	630-28-9
2000x2000x300mm	630-30-9
3000x1500x400mm	630-32-9
3000x2000x500mm	630-34-9

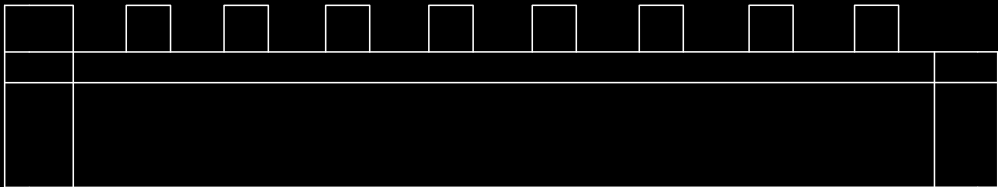
Granite Plate Stands

638 Series

Size	Code No.
600x450x100mm	638-03-0
600x600x130mm	638-04-0
750x500x130mm	638-05-0
1000x750x150mm	638-06-0
1000x1000x150mm	638-07-0
1500x1000x200mm	638-08-0

Gauges

- 149 Rectangular Gauge Block Sets
- 152 Inch Individual Rectangular Gauge Blocks
- 153 Metric Individual Rectangular Gauge Blocks
- 154 Metric Individual Rectangular Ceramic Gauge Blocks
- 155 Caliper Calibration Gauge Sets
- 155 Micrometer Calibration Gauge Sets
- 156 Gauge Block Accessories
- 157 Check Masters
- 157 Optical Flats and Parallels
- 158 Plug Gauges and Ring Gauges
- 159 Thread Plug Gauges and Ring Gauges
- 161 ANSI Inch Thread Ring Gauges
- 162 Whitworth Pipe Thread Plug Gauges and Ring Gauges
- 162 NPT Thread Plug Gauges and Ring Gauges
- 162 Inch Master Setting Ring Gauges
- 163 ANSI Inch Thread Plug Gauges and Adjustable Ring Gauges
- 164 ANSI Metric Thread Plug Gauges and Ring Gauges
- 165 Individual Inspection Gauge Balls
- 165 Precision Inspection Gauge Ball Sets
- 166 36 pcs Round Space Block Set
- 166 Individual Pin Gauges
- 167 Pin Gauge Sets
- 167 Pin Gauge Handles



Rectangular Gauge Block Sets

650 Series

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



650-63-0

SPECIFICATIONS

Inch

Blocks Per Set	Blocks Included In Set	Grade	Steel	Ceramic
			Code No.	Code No.
81	1 Block: .050" 10 Blocks: .1000"- .1009" x .0001" step 49 Blocks: .101"- .149" x .001" step 17 Blocks: .150"- .950" x .050" step 4 Blocks: 1.000"-4.000" x 1.000" step	0	650-01-0	650-51-0
		AS-1	650-01-1	650-51-1
		AS-2	650-01-2	-
36	1 Block: .050" 10 Blocks: .1000"- .1009" x .0001" step 9 Blocks: .101"- .109" x .001" step 9 Blocks: .110"- .190" x .010" step 4 Blocks: .200"- .500" x .100" step 3 Blocks: 1", 2", 4"	0	650-02-0	650-52-0
		AS-1	650-02-1	650-52-1
		AS-2	650-02-2	-

Metric

1 mm base set

Blocks Per Set	Blocks Included In Set	Grade	Steel	Ceramic
			Code No.	Code No.
122	1 Blocks: 1.0005mm 9 Blocks: 1.001- 1.009mm x 0.001mm step 49 Blocks: 1.01- 1.49mm x 0.01mm step 4 Blocks: 1.6 - 1.9mm x 0.1mm step 49 Blocks: 0.5 - 24.5mm x 0.5mm step 8 Blocks: 30 - 100mm x 10mm step 2 Blocks: 25, 75mm	0	650-11-0	650-61-0
		1	650-11-1	650-61-1
		2	650-11-2	650-61-2
112	1 Blocks: 1.0005mm 9 Blocks: 1.001- 1.009mm x 0.001mm step 49 Blocks: 1.01- 1.49mm x 0.01mm step 49 Blocks: 0.5 - 24.5mm x 0.5mm step 4 Blocks: 25 - 100mm x 25mm step	0	650-17-0	650-67-0
		1	650-17-1	650-67-1
		2	650-17-2	650-67-2
103	1 Blocks: 1.005mm 49 Blocks: 1.01- 1.49mm x 0.01mm step 49 Blocks: 0.5 - 24.5mm x 0.5mm step 4 Blocks: 25 - 100mm x 25mm step	0	650-12-0	650-62-0
		1	650-12-1	650-62-1
		2	650-12-2	650-62-2
88	1 Blocks: 1.0005mm 9 Blocks: 1.001- 1.009mm x 0.001mm step 49 Blocks: 1.01- 1.49mm x 0.01mm step 19 Blocks: 0.5 - 9.5mm x 0.5mm step 10 Blocks: 10 - 100mm x 10mm step	0	650-18-0	650-68-0
		1	650-18-1	650-68-1
		2	650-18-2	650-68-2
87	9 Blocks: 1.001- 1.009mm x 0.001mm step 49 Blocks: 1.01- 1.49mm x 0.01mm step 19 Blocks: 0.5 - 9.5mm x 0.5mm step 10 Blocks: 10 - 100mm x 10mm step	0	650-13-0	650-63-0
		1	650-13-1	650-63-1
		2	650-13-2	650-63-2
76	1 Blocks: 1.005mm 49 Blocks: 1.01- 1.49mm x 0.01mm step 19 Blocks: 0.5 - 9.5mm x 0.5mm step 4 Blocks: 10 - 40mm x 10mm step 3 Blocks: 50 - 100mm x 25mm step	0	650-19-0	650-69-0
		1	650-19-1	650-69-1
		2	650-19-2	650-69-2



Rectangular Gauge Block Sets

650 Series

Metric 1 mm base set

Blocks Per Set	Blocks Included In Set	Grade	Steel	Ceramic
			Code No.	Code No.
56	1 Block: 0.5mm 9 Block: 1.001- 1.009mm x 0.001mm step 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	0	650-20-0	650-70-0
		1	650-20-1	650-70-1
		2	650-20-2	650-70-2
47	1 Block: 1.005mm 20 Block: 1.01- 1.20mm x 0.01mm step 7 Block: 1.3 - 1.9mm x 0.1mm step 9 Block: 1- 9mm x 1mm step 10 Block: 10 - 100mm x 10mm step	0	650-14-0	650-64-0
		1	650-14-1	650-64-1
		2	650-14-2	650-64-2
47	1 Block: 1.005mm 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	0	650-15-0	650-65-0
		1	650-15-1	650-65-1
		2	650-15-2	650-65-2
46	9 Block: 1.001- 1.009mm x 0.001mm step 9 Block: 1.01- 1.09mm x 0.01mm step 9 Block: 1.1 - 1.9mm x 0.1mm step 9 Block: 1- 9mm x 1mm step 10 Block: 10 - 100mm x 10mm step	0	650-21-0	650-71-0
		1	650-21-1	650-71-1
		2	650-21-2	650-71-2
34	1 Block: 1.0005mm 9 Block: 1.001- 1.009mm x 0.001mm step 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	0	650-22-0	650-72-0
		1	650-22-1	650-72-1
		2	650-22-2	650-72-2
32	1 Block: 1.005mm 9 Block: 1.01 - 1.09mm x 0.01mm step 9 Block: 1.1 - 1.9mm x 0.1mm step 9 Block: 1- 9mm x 1mm step 4 Block: 10mm, 20mm, 30mm, 50mm	0	650-16-0	650-66-0
		1	650-16-1	650-66-1
		2	650-16-2	650-66-2
24	9 Block: 1.01 - 1.09mm x 0.01mm step 9 Block: 1.1 - 1.9mm x 0.1mm step 5 Block: 1 - 5 mm x 1mm step 1 Block: 10 mm	0	650-23-0	650-73-0
		1	650-23-1	650-73-1
19	9 Block: 1.1 - 1.9mm x 0.1mm step 5 Block: 1 - 5 mm x 1mm step 2 Block: 10 - 20 mm x 10mm step 3 Block: 25mm, 50mm, 100 mm	0	650-24-0	650-74-0
		1	650-24-1	650-74-1
10	5 Block: 1 - 5 mm x 1mm step 2 Block: 10 - 20 mm x 10mm step 3 Block: 25mm, 50mm, 100 mm	0	650-25-0	650-75-0
		1	650-25-1	650-75-1

Metric

Blocks Per Set	Blocks Included In Set	Grade	Steel	Ceramic
			Code No.	Code No.
18	9 Block: 0.991 - 0.999mm x 0.001mm step 9 Block: 1.001 - 1.009mm x 0.001mm step	0	650-26-0	650-76-0
		1	650-26-1	650-76-1
		2	650-26-2	650-76-2
9	9 Block: 1.001 - 1.009mm x 0.001mm step	0	650-27-0	650-77-0
		1	650-27-1	650-77-1
		2	650-27-2	650-77-2
9	9 Block: 0.991 - 0.999mm x 0.001mm step	0	650-28-0	650-78-0
		1	650-28-1	650-78-1
		2	650-28-2	650-78-2



Rectangular Steel Gauge Block Sets

650 Series

Metric 2 mm base Set

Blocks Per Set	Blocks Included In Set	Grade	ISO / DIN / JIS / GB	ASME
			Code No.	Code No.
112	1 Block: 2.0005mm 9 Block: 2.001- 2.009mm x 0.001mm step 49 Block: 2.01- 2.49mm x 0.01mm step 49 Block: 0.5 - 24.5mm x 0.5mm step 4 Block: 25 - 100mm x 25mm step	0	650-29-0	650-79-0
		1	650-29-1	650-79-1
		2	650-29-2	650-79-2
88	1 Block: 2.005mm 9 Block: 2.001- 2.009mm x 0.001mm step 49 Block: 2.01- 2.49mm x 0.01mm step 19 Block: 0.5 - 9.5mm x 0.5mm step 10 Block: 10 - 100mm x 10mm step	0	650-30-0	650-80-0
		1	650-30-1	650-80-1
		2	650-30-2	650-80-2
88	1 Block: 2.0005mm 9 Block: 2.001- 2.009mm x 0.001mm step 49 Block: 2.01- 2.49mm x 0.01mm step 19 Block: 0.5 - 9.5mm x 0.5mm step 10 Block: 10 - 100mm x 10mm step	0	650-31-0	650-81-0
		1	650-31-1	650-81-1
		2	650-31-2	650-81-2
47	1 Block: 2.0005mm 9 Block: 2.001- 2.009mm x 0.001mm step 9 Block: 2.01- 2.09mm x 0.01mm step 9 Block: 2.1- 2.9mm x 0.1mm step 9 Block: 1- 9mm x 1mm step 10 Block: 10 - 100mm x 10mm step	0	650-32-0	650-82-0
		1	650-32-1	650-82-1
		2	650-32-2	650-82-2
46	9 Block: 2.001- 2.009mm x 0.001mm step 9 Block: 2.01- 2.09mm x 0.01mm step 9 Block: 2.1- 2.9mm x 0.1mm step 9 Block: 1- 9mm x 1mm step 10 Block: 10 - 100mm x 10mm step	0	650-33-0	650-83-0
		1	650-33-1	650-83-1
		2	650-33-2	650-83-2
33	1 Block: 2.005mm 9 Block: 2.01- 2.09mm x 0.01mm step 9 Block: 2.1- 2.9mm x 0.1mm step 9 Block: 1- 9mm x 1mm step 5 Block: 10mm, 20mm, 30mm, 60mm, 100mm	0	650-34-0	650-84-0
		1	650-34-1	650-84-1
		2	650-34-2	650-84-2
8	125mm, 150, 175, 200, 250, 300, 400, 500mm	0	650-35-0	650-85-0
		1	650-35-1	650-85-1
		2	650-35-2	650-85-2

Rectangular Tungsten Steel Gauge Block Sets

650 Series

Blocks Per Set	Blocks Included In Set	Grade	Code No.
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	650-93-0
		1	650-93-1
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	650-92-0
		1	650-92-1
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	650-97-0
		1	650-97-1

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

SPECIFICATIONS

Size	Steel		Ceramic
	Grade 0	Grade 1	Grade 0
.05"	651-01-0	651-01-1	655-01-0
.05005"	651-02-0	651-02-1	655-02-0
.0503"	651-03-0	651-03-1	655-03-0
.0506"	651-04-0	651-04-1	655-04-0
.0507"	651-05-0	651-05-1	655-05-0
.0508"	651-06-0	651-06-1	655-06-0
.0509"	651-07-0	651-07-1	655-07-0
.052"	651-08-0	651-08-1	655-08-0
.053"	651-09-0	651-09-1	655-09-0
.054"	651-10-0	651-10-1	655-10-0
.055"	651-11-0	651-11-1	655-11-0
.056"	651-12-0	651-12-1	655-12-0
.058"	651-13-0	651-13-1	655-13-0
.06"	651-14-0	651-14-1	655-14-0
.1"	651-15-0	651-15-1	655-15-0
.10005"	651-16-0	651-16-1	655-16-0
.1001"	651-17-0	651-17-1	655-17-0
.1002"	651-18-0	651-18-1	655-18-0
.1003"	651-19-0	651-19-1	655-19-0
.1004"	651-20-0	651-20-1	655-20-0
.1005"	651-21-0	651-21-1	655-21-0
.1006"	651-22-0	651-22-1	655-22-0
.1007"	651-23-0	651-23-1	655-23-0
.1008"	651-24-0	651-24-1	655-24-0
.1009"	651-25-0	651-25-1	655-25-0
.101"	651-26-0	651-26-1	655-26-0
.102"	651-27-0	651-27-1	655-27-0
.103"	651-28-0	651-28-1	655-28-0
.104"	651-29-0	651-29-1	655-29-0
.105"	651-30-0	651-30-1	655-30-0
.106"	651-31-0	651-31-1	655-31-0
.107"	651-32-0	651-32-1	655-32-0
.108"	651-33-0	651-33-1	655-33-0
.109"	651-34-0	651-34-1	655-34-0
.11"	651-35-0	651-35-1	655-35-0
.111"	651-36-0	651-36-1	655-36-0

Size	Steel		Ceramic
	Grade 0	Grade 1	Grade 0
.112"	651-37-0	651-37-1	655-37-0
.113"	651-38-0	651-38-1	655-38-0
.114"	651-39-0	651-39-1	655-39-0
.115"	651-40-0	651-40-1	655-40-0
.116"	651-41-0	651-41-1	655-41-0
.117"	651-42-0	651-42-1	655-42-0
.118"	651-43-0	651-43-1	655-43-0
.119"	651-44-0	651-44-1	655-44-0
.12"	651-45-0	651-45-1	655-45-0
.121"	651-46-0	651-46-1	655-46-0
.122"	651-47-0	651-47-1	655-47-0
.123"	651-48-0	651-48-1	655-48-0
.124"	651-49-0	651-49-1	655-49-0
.125"	651-50-0	651-50-1	655-50-0
.126"	651-51-0	651-51-1	655-51-0
.127"	651-52-0	651-52-1	655-52-0
.128"	651-53-0	651-53-1	655-53-0
.129"	651-54-0	651-54-1	655-54-0
.13"	651-55-0	651-55-1	655-55-0
.131"	651-56-0	651-56-1	655-56-0
.132"	651-57-0	651-57-1	655-57-0
.133"	651-58-0	651-58-1	655-58-0
.134"	651-59-0	651-59-1	655-59-0
.135"	651-60-0	651-60-1	655-60-0
.136"	651-61-0	651-61-1	655-61-0
.137"	651-62-0	651-62-1	655-62-0
.138"	651-63-0	651-63-1	655-63-0
.139"	651-64-0	651-64-1	655-64-0
.14"	651-65-0	651-65-1	655-65-0
.141"	651-66-0	651-66-1	655-66-0
.142"	651-67-0	651-67-1	655-67-0
.143"	651-68-0	651-68-1	655-68-0
.144"	651-69-0	651-69-1	655-69-0
.145"	651-70-0	651-70-1	655-70-0
.146"	651-71-0	651-71-1	655-71-0
.147"	651-72-0	651-72-1	655-72-0

Size	Steel		Ceramic
	Grade 0	Grade 1	Grade 0
.148"	651-73-0	651-73-1	655-73-0
.149"	651-74-0	651-74-1	655-74-0
.15"	651-75-0	651-75-1	655-75-0
.16"	651-76-0	651-76-1	655-76-0
.17"	651-77-0	651-77-1	655-77-0
.18"	651-78-0	651-78-1	655-78-0
.19"	651-79-0	651-79-1	655-79-0
.2"	651-80-0	651-80-1	655-80-0
.21"	651-81-0	651-81-1	655-81-0
.25"	651-82-0	651-82-1	655-82-0
.3"	651-83-0	651-83-1	655-83-0
.35"	651-84-0	651-84-1	655-84-0
.4"	651-85-0	651-85-1	655-85-0
.45"	651-86-0	651-86-1	655-86-0
.5"	651-87-0	651-87-1	655-87-0
.55"	651-88-0	651-88-1	655-88-0
.6"	651-89-0	651-89-1	655-89-0
.65"	651-90-0	651-90-1	655-90-0
.7"	651-91-0	651-91-1	655-91-0
.75"	651-92-0	651-92-1	655-92-0
.8"	651-93-0	651-93-1	655-93-0
.85"	651-94-0	651-94-1	655-94-0
.9"	651-95-0	651-95-1	655-95-0
.95"	651-96-0	651-96-1	655-96-0
1"	651-97-0	651-97-1	655-97-0
2"	651-98-0	651-98-1	655-98-0
3"	651-99-0	651-99-1	655-99-0
4"	652-00-0	652-00-1	656-00-0
5"	652-01-0	652-01-1	656-01-0
6"	652-02-0	652-02-1	-
7"	652-03-0	652-03-1	-
8"	652-04-0	652-04-1	-
10"	652-05-0	652-05-1	-
12"	652-06-0	652-06-1	-
16"	652-07-0	652-07-1	-
20"	652-08-0	652-08-1	-

Metric Individual Rectangular Gauge Blocks

653 / 654 Series

FEATURES

- ASME / DIN / JIS / GB Standard
- Steel Grade 0 and Grade 1

SPECIFICATIONS

	Grade 0	Grade 1
Size	Code No.	Code No.
0.5mm	653-01-0	653-01-1
1mm	653-02-0	653-02-1
1.001mm	653-03-0	653-03-1
1.002mm	653-04-0	653-04-1
1.003mm	653-05-0	653-05-1
1.004mm	653-06-0	653-06-1
1.005mm	653-07-0	653-07-1
1.006mm	653-08-0	653-08-1
1.007mm	653-09-0	653-09-1
1.008mm	653-10-0	653-10-1
1.009mm	653-11-0	653-11-1
1.01mm	653-12-0	653-12-1
1.02mm	653-13-0	653-13-1
1.03mm	653-14-0	653-14-1
1.04mm	653-15-0	653-15-1
1.05mm	653-16-0	653-16-1
1.06mm	653-17-0	653-17-1
1.07mm	653-18-0	653-18-1
1.08mm	653-19-0	653-19-1
1.09mm	653-20-0	653-20-1
1.1mm	653-21-0	653-21-1
1.11mm	653-22-0	653-22-1
1.12mm	653-23-0	653-23-1
1.13mm	653-24-0	653-24-1
1.14mm	653-25-0	653-25-1
1.15mm	653-26-0	653-26-1
1.16mm	653-27-0	653-27-1
1.17mm	653-28-0	653-28-1
1.18mm	653-29-0	653-29-1
1.19mm	653-30-0	653-30-1
1.2mm	653-31-0	653-31-1
1.21mm	653-32-0	653-32-1
1.22mm	653-33-0	653-33-1
1.23mm	653-34-0	653-34-1
1.24mm	653-35-0	653-35-1
1.25mm	653-36-0	653-36-1
1.26mm	653-37-0	653-37-1
1.27mm	653-38-0	653-38-1
1.28mm	653-39-0	653-39-1
1.29mm	653-40-0	653-40-1
1.3mm	653-41-0	653-41-1
1.31mm	653-42-0	653-42-1
1.32mm	653-43-0	653-43-1
1.33mm	653-44-0	653-44-1
1.34mm	653-45-0	653-45-1

	Grade 0	Grade 1
Size	Code No.	Code No.
1.35mm	653-46-0	653-46-1
1.36mm	653-47-0	653-47-1
1.37mm	653-48-0	653-48-1
1.38mm	653-49-0	653-49-1
1.39mm	653-50-0	653-50-1
1.4mm	653-51-0	653-51-1
1.41mm	653-52-0	653-52-1
1.42mm	653-53-0	653-53-1
1.43mm	653-54-0	653-54-1
1.44mm	653-55-0	653-55-1
1.45mm	653-56-0	653-56-1
1.46mm	653-57-0	653-57-1
1.47mm	653-58-0	653-58-1
1.48mm	653-59-0	653-59-1
1.49mm	653-60-0	653-60-1
1.5mm	653-61-0	653-61-1
1.6mm	653-62-0	653-62-1
1.7mm	653-63-0	653-63-1
1.8mm	653-64-0	653-64-1
1.9mm	653-65-0	653-65-1
2mm	653-66-0	653-66-1
2.5mm	653-67-0	653-67-1
3mm	653-68-0	653-68-1
3.5mm	653-69-0	653-69-1
4mm	653-70-0	653-70-1
4.5mm	653-71-0	653-71-1
5mm	653-72-0	653-72-1
5.5mm	653-73-0	653-73-1
6mm	653-74-0	653-74-1
6.5mm	653-75-0	653-75-1
7mm	653-76-0	653-76-1
7.5mm	653-77-0	653-77-1
8mm	653-78-0	653-78-1
8.5mm	653-79-0	653-79-1
9mm	653-80-0	653-80-1
9.5mm	653-81-0	653-81-1
10mm	653-82-0	653-82-1
10.5mm	653-83-0	653-83-1
11mm	653-84-0	653-84-1
11.5mm	653-85-0	653-85-1
12mm	653-86-0	653-86-1
12.5mm	653-87-0	653-87-1
13mm	653-88-0	653-88-1
13.5mm	653-89-0	653-89-1
14mm	653-90-0	653-90-1

	Grade 0	Grade 1
Size	Code No.	Code No.
14.5mm	653-91-0	653-91-1
15mm	653-92-0	653-92-1
15.5mm	653-93-0	653-93-1
16mm	653-94-0	653-94-1
16.5mm	653-95-0	653-95-1
17mm	653-96-0	653-96-1
17.5mm	653-97-0	653-97-1
18mm	653-98-0	653-98-1
18.5mm	653-99-0	653-99-1
19mm	654-00-0	654-00-1
19.5mm	654-01-0	654-01-1
20mm	654-02-0	654-02-1
20.5mm	654-03-0	654-03-1
21mm	654-04-0	654-04-1
21.5mm	654-05-0	654-05-1
22mm	654-06-0	654-06-1
22.5mm	654-07-0	654-07-1
23mm	654-08-0	654-08-1
23.5mm	654-09-0	654-09-1
24mm	654-10-0	654-10-1
24.5mm	654-11-0	654-11-1
25mm	654-12-0	654-12-1
30mm	654-13-0	654-13-1
40mm	654-14-0	654-14-1
50mm	654-15-0	654-15-1
60mm	654-16-0	654-16-1
70mm	654-17-0	654-17-1
75mm	654-18-0	654-18-1
80mm	654-19-0	654-19-1
90mm	654-20-0	654-20-1
100mm	654-21-0	654-21-1
125mm	-	654-22-1
150mm	-	654-23-1
175mm	-	654-24-1
200mm	-	654-25-1
250mm	-	654-27-1
300mm	-	654-29-1
400mm	-	654-31-1
500mm	-	654-33-1
600mm	-	654-35-1
700mm	-	654-37-1
800mm	-	654-39-1
900mm	-	654-41-1
1000mm	-	654-43-1
-	-	-



Metric Individual Rectangular Ceramic Gauge Blocks 657 / 658 Series

FEATURES

- ASME / DIN / JIS / GB Standard
- Ceramic Grade 0

SPECIFICATIONS

Size	Code No.
0.5mm	657-01-0
1mm	657-02-0
1.001mm	657-03-0
1.002mm	657-04-0
1.003mm	657-05-0
1.004mm	657-06-0
1.005mm	657-07-0
1.006mm	657-08-0
1.007mm	657-09-0
1.008mm	657-10-0
1.009mm	657-11-0
1.01mm	657-12-0
1.02mm	657-13-0
1.03mm	657-14-0
1.04mm	657-15-0
1.05mm	657-16-0
1.06mm	657-17-0
1.07mm	657-18-0
1.08mm	657-19-0
1.09mm	657-20-0
1.1mm	657-21-0
1.11mm	657-22-0
1.12mm	657-23-0
1.13mm	657-24-0
1.14mm	657-25-0
1.15mm	657-26-0
1.16mm	657-27-0
1.17mm	657-28-0
1.18mm	657-29-0
1.19mm	657-30-0
1.2mm	657-31-0
1.21mm	657-32-0
1.22mm	657-33-0
1.23mm	657-34-0
1.24mm	657-35-0
1.25mm	657-36-0
1.26mm	657-37-0
1.27mm	657-38-0
1.28mm	657-39-0
1.29mm	657-40-0
1.3mm	657-41-0

Size	Code No.
1.31mm	657-42-0
1.32mm	657-43-0
1.33mm	657-44-0
1.34mm	657-45-0
1.35mm	657-46-0
1.36mm	657-47-0
1.37mm	657-48-0
1.38mm	657-49-0
1.39mm	657-50-0
1.4mm	657-51-0
1.41mm	657-52-0
1.42mm	657-53-0
1.43mm	657-54-0
1.44mm	657-55-0
1.45mm	657-56-0
1.46mm	657-57-0
1.47mm	657-58-0
1.48mm	657-59-0
1.49mm	657-60-0
1.5mm	657-61-0
1.6mm	657-62-0
1.7mm	657-63-0
1.8mm	657-64-0
1.9mm	657-65-0
2mm	657-66-0
2.5mm	657-67-0
3mm	657-68-0
3.5mm	657-69-0
4mm	657-70-0
4.5mm	657-71-0
5mm	657-72-0
5.5mm	657-73-0
6mm	657-74-0
6.5mm	657-75-0
7mm	657-76-0
7.5mm	657-77-0
8mm	657-78-0
8.5mm	657-79-0
9mm	657-80-0
9.5mm	657-81-0
10mm	657-82-0

Size	Code No.
10.5mm	657-83-0
11mm	657-84-0
11.5mm	657-85-0
12mm	657-86-0
12.5mm	657-87-0
13mm	657-88-0
13.5mm	657-89-0
14mm	657-90-0
14.5mm	657-91-0
15mm	657-92-0
15.5mm	657-93-0
16mm	657-94-0
16.5mm	657-95-0
17mm	657-96-0
17.5mm	657-97-0
18mm	657-98-0
18.5mm	657-99-0
19mm	658-00-0
19.5mm	658-01-0
20mm	658-02-0
20.5mm	658-03-0
21mm	658-04-0
21.5mm	658-05-0
22mm	658-06-0
22.5mm	658-07-0
23mm	658-08-0
23.5mm	658-09-0
24mm	658-10-0
24.5mm	658-11-0
25mm	658-12-0
30mm	658-13-0
40mm	658-14-0
50mm	658-15-0
60mm	658-16-0
70mm	658-17-0
75mm	658-18-0
80mm	658-19-0
90mm	658-20-0
100mm	658-21-0
-	-
-	-

Caliper Calibration Gauge Sets

659 Series



659-31-1

FEATURES

- DIN / GB Standard
- Material: Hardened Steel
- Grades 0 and 1 are available

SPECIFICATIONS

For DIN Standard

Individual Blocks in Set	Grade	Code No.
30.0mm, 41.3mm, 131.4mm, Master Ring: Ø4.0mm, Ø25.0mm	0-150mm	1
41.3mm, 131.4mm, 243.5mm, Master Ring: Ø4.0mm, Ø25.0mm	0-300mm	0

For GB Standard

Individual Blocks in Set	Grade	Code No.
10mm, 20mm, 20mm, 41.2mm, 81.5mm, 121.8mm	0-150mm	1
10mm, 20mm, 20mm, 51.2mm, 121.5mm, 191.8mm	0-200mm	1
10mm, 20mm, 20mm, 101.2mm, 201.5mm, 291.8mm	0-300mm	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



659-71-1

FEATURES

- DIN / GB Standard
- Steel or Ceramic, Grade 1

SPECIFICATIONS

For DIN Standard

Blocks in Set	Range	Grade	Steel Set	Ceramic Set
			Code No.	Code No.
5.1mm, 10.3mm, 15.0mm, 20.2mm, 25.0mm	0-25mm	1	659-21-1	659-71-1

For GB Standard

Blocks in Set	Range	Grade	Steel Set	Ceramic Set
			Code No.	Code No.
5.12mm, 10.24mm, 15.36mm, 21.5mm, 25.0mm	0-25mm	1	659-22-1	659-72-1
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	659-23-1	659-73-1

Gauge Block Accessories

660 Series

FEATURES

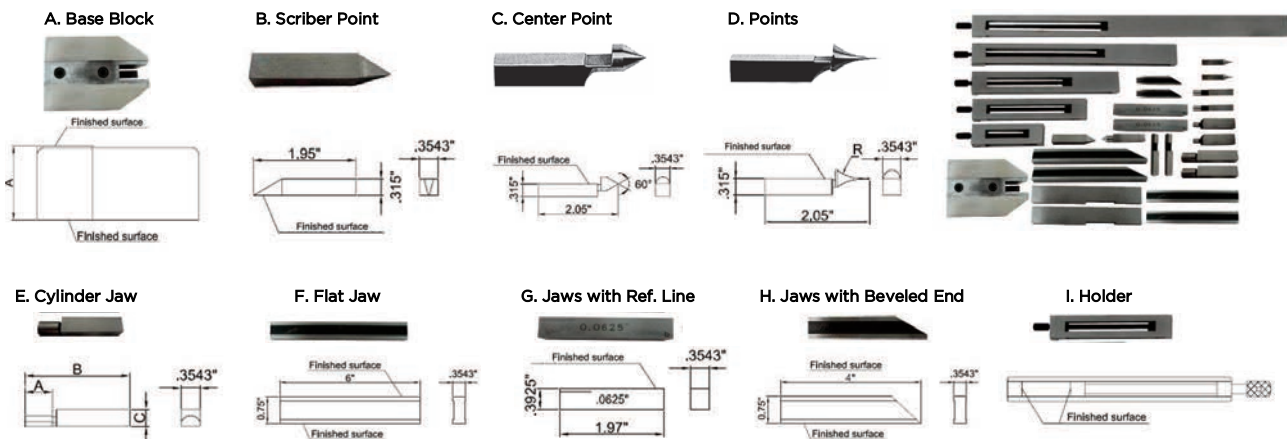
- The gauge block accessory set is used to firmly connect rectangular gauge blocks with the gauge holding devices. A series of universal precision measuring surfaces and base are provided to increase the measurement flexibility

SPECIFICATIONS

Metric		12 pcs Set	17 pcs Set	
		660-01-0	660-01-1	
Description	Dimension	Individuals in Set	Individuals in Set	Code No.
Gauge Holder	0-50mm	1 pc	1 pc	660-10-1
	0-100mm	1 pc	1 pc	660-10-2
	100-200mm	1 pc	1 pc	660-10-3
Cylinder Jaws	R2 x 10mm	1 pair	1 pair	660-11-1
	R5 x 15mm	1 pair	1 pair	660-11-2
	R10 x 40mm	1 pair	1 pair	660-11-3
Scriber	15mm	1 pc	1 pc	660-12-3
Center Point	8 x 8mm	1 pc	1 pc	660-12-4
Parallel Jaw	8 x 19 x 100mm	-	1 pair	660-12-7
Base Block		1 pc	1 pc	660-05-0
Bevel Jaw	60mm	-	1 pair	660-06-2
Straight Edge	100mm	-	1 pc	660-06-4



Inch				27 pcs Set	14 pcs Set	
				660-01-2	660-02-1	
#	Description/Use	Dimension	Accuracy	Individuals in Set	Individuals in Set	Code No.
A	Base Block	4 x 2-3/4 x 1.7"	Height: ± 0.002 "	1 pc	-	660-05-5
B	Scriber Point	1.950" Length	Flatness: ± 0.0002 " / 2"	1 pc	-	660-13-1
C	Center Point	2.05" Length	Concentricity: ± 0.0004 "	1 pc	-	660-13-4
D	Points	2.05" Length	Concentricity: ± 0.0002 "	1 pair	-	660-13-5
E	Cylinder Jaws	Radius x A x B x C	Radius: ± 0.0003 "			
		.1"x.236"x1.58"x.315"	Pair: ± 0.0004 "	1 pair	1 pair	660-14-1
		.2"x.507"x1.965"x.315"		1 pair	1 pair	660-14-2
		.25"x.516"x2.366"x.315"		1 pair	1 pair	660-14-3
		.5"x.800"x2.945"x.512"		1 pair	1 pair	660-14-4
		.75"x1.2"x4.92"x.768"		1 pair	-	660-14-5
F	Flat Jaws	.750" Height, 6" Length	Parallelism: ± 0.0004 "	1 pair	-	660-13-7
G	Jaws with Ref. Line	.0625" Ref. line	Line Height: ± 0.002 "	1 pair	-	660-14-6
H	Jaws with Beveled End	.750" Height, 4" Length	Flatness: ± 0.0002 " / 2"	1 pair	1 pair	660-14-8
		.750" Height, 6" Length		1 pair	1 pair	660-14-9
I	Holders	2.250" Capacity, 4.175" Length	Working surfaces	1 pcs	1 pc	660-15-1
		4.000" Capacity, 6.5" Length	accurately ground	1 pc	-	660-15-2
		6.000" Capacity, 8.5" Length	and lapped	1 pc	1 pc	660-15-3
		10.000" Capacity, 12" Length		1 pc	-	660-15-4



Check Masters

660 / 661 Series



661-12-0

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



660-12-0

SPECIFICATIONS

Range	Pitch	Accuracy	Parallelism	Horizontal	Vertical
				Code No.	Code No.
Inch					
12"	1"/.5"	±.00005"	.00004"	660-12-1	661-12-1
24"	1"/.5"	±.00007"	.00006"	660-24-1	661-24-1
Metric					
300mm	20mm/10mm	±1.2µm	1µm	660-12-0	661-12-0
600mm	20mm/10mm	±1.8µm	1.5µm	660-24-0	661-24-0

Customized pitch for special purpose is available also

Optical Flats and Parallels

605 Series



605-51-1

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

SPECIFICATIONS

Optical Flats

Dimensions	Flatness	Code No.
Ø45 x 15mm	0.03µm	605-51-1
Ø60 x 20mm	0.03µm	605-51-3

Optical Parallels Diameter: 30mm

Micrometers Range	Dimensions	Code No.
0-25mm	15.62, 15.75, 15.87, 16.00mm	605-52-1
25-50mm	40.62, 40.75, 40.87, 41.00mm	605-52-2
50-75mm	65.62, 65.75, 65.87, 66.00mm	605-52-3
75-100mm	90.62, 90.75, 90.87, 91.00mm	605-52-4



605-52-1

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

SPECIFICATIONS

Plug Gauges

Size	H7 Code No.
2mm	670-02-7
3mm	670-03-7
4mm	670-04-7
5mm	670-05-7
6mm	670-06-7
7mm	670-07-7
8mm	670-08-7
9mm	670-09-7
10mm	670-10-7
11mm	670-11-7
12mm	670-12-7
13mm	670-13-7
14mm	670-14-7
15mm	670-15-7
16mm	670-16-7
17mm	670-17-7
18mm	670-18-7
19mm	670-19-7
20mm	670-20-7
21mm	670-21-7
22mm	670-22-7
23mm	670-23-7
24mm	670-24-7
25mm	670-25-7
26mm	670-26-7
27mm	670-27-7
28mm	670-28-7
30mm	670-30-7
32mm	670-32-7

Size	H7 Code No.
34mm	670-34-7
35mm	670-35-7
36mm	670-36-7
37mm	670-37-7
38mm	670-38-7
40mm	670-40-7
42mm	670-42-7
44mm	670-44-7
45mm	670-45-7
46mm	670-46-7
47mm	670-47-7
48mm	670-48-7
50mm	670-50-7
52mm	670-52-7
55mm	670-55-7
60mm	670-60-7
62mm	670-62-7
65mm	670-65-7
68mm	670-68-7
70mm	670-70-7
72mm	670-72-7
75mm	670-75-7
80mm	670-80-7
85mm	670-85-7
90mm	670-90-7
95mm	670-95-7
98mm	670-98-7
100mm	671-00-7
-	-

Ring Gauge

Size	Code No.
2.0mm	675-02-0
2.2mm	675-02-2
2.5mm	675-02-5
2.8mm	675-02-8
3.0mm	675-03-0
3.5mm	675-03-5
4.0mm	675-04-0
4.5mm	675-04-5
5.0mm	675-05-0
6.0mm	675-06-0
7.0mm	675-07-0
8.0mm	675-08-0
9.0mm	675-09-0
10mm	675-10-0
11mm	675-11-0

Size	Code No.
12mm	675-12-0
13mm	675-13-0
14mm	675-14-0
15mm	675-15-0
16mm	675-16-0
17mm	675-17-0
18mm	675-18-0
19mm	675-19-0
20mm	675-20-0
21mm	675-21-0
22mm	675-22-0
23mm	675-23-0
24mm	675-24-0
25mm	675-25-0
26mm	675-26-0

Size	Code No.
27mm	675-27-0
28mm	675-28-0
30mm	675-30-0
32mm	675-32-0
33mm	675-33-0
34mm	675-34-0
35mm	675-35-0
36mm	675-36-0
37mm	675-37-0
38mm	675-38-0
40mm	675-40-0
42mm	675-42-0
44mm	675-44-0
45mm	675-45-0
46mm	675-46-0

Size	Code No.
47mm	675-47-0
48mm	675-48-0
50mm	675-50-0
52mm	675-52-0
55mm	675-55-0
58mm	675-58-0
60mm	675-60-0
62mm	675-62-0
65mm	675-65-0
68mm	675-68-0
70mm	675-70-0
72mm	675-72-0
75mm	675-75-0
80mm	675-80-0
82mm	675-82-0

Size	Code No.
85mm	675-85-0
88mm	675-88-0
90mm	675-90-0
92mm	675-92-0
95mm	675-95-0
98mm	675-98-0
100mm	676-00-0
125mm	676-12-5
150mm	676-50-0
175mm	676-17-5
200mm	676-00-1
225mm	676-22-5
250mm	676-50-1
275mm	676-27-5
-	-

Thread Plug Gauges and Ring Gauges

68X Series



682-14-5



685-14-5



686-14-5

FEATURES

- ISO-Metric Thread
- Per DIN 13

SPECIFICATIONS

	Plug Gauge 6H	Ring Gauge"GO" 6g	Ring Gauge"NO GO" 6g
Size	Code No.	Code No.	Code No.
ISO-Metric Coarse Thread			
M2	680-02-0	-	-
M2.5	680-02-5	-	-
M3	680-03-0	683-03-1	684-03-0
M3.5	680-03-5	683-03-6	684-03-5
M4	680-04-2	683-04-1	684-04-0
M5	680-05-2	683-05-1	684-05-0
M6	680-06-2	683-06-1	684-06-0
M8	680-08-2	683-08-1	684-08-0
M9	680-09-2	683-09-1	684-09-0
M10	680-10-2	683-10-1	684-10-0
M12	680-12-2	683-12-1	684-12-0
M14	680-14-2	683-14-1	684-14-0
M16	680-16-2	683-16-1	684-16-0
M18	680-18-2	683-18-1	684-18-0
ISO-Metric Fine Thread			
M2.0x0.35	682-02-0	685-02-0	686-02-0
M2.2x0.35	682-02-8	685-02-8	686-02-8
M2.5x0.35	682-02-9	685-02-9	686-02-9
M3.0x0.35	682-03-0	685-03-0	686-03-0
M3.5x0.35	682-03-9	685-03-9	686-03-9
M4.0x0.35	682-04-0	685-04-0	686-04-0
M4.5x0.35	682-04-9	685-04-9	686-04-9
M5.0x0.35	682-05-0	685-05-0	686-05-0
M6.0x0.35	682-06-0	685-06-0	686-06-0
M4.0x0.5	682-04-1	685-04-1	686-04-1
M5.0x0.5	682-05-1	685-05-1	686-05-1
M6.0x0.5	682-06-1	685-06-1	686-06-1
M8.0x0.5	682-08-1	685-08-1	686-08-1
M10x0.5	682-10-1	685-10-1	686-10-1
M12x0.5	682-12-1	685-12-1	686-12-1
M6.0x0.75	682-06-2	685-06-2	686-06-2
M7.0x0.75	682-07-2	685-07-2	686-07-2
M8.0x0.75	682-08-2	685-08-2	686-08-2
M10x0.75	682-10-2	685-10-2	686-10-2
M12x0.75	682-12-2	685-12-2	686-12-2
M8.0x1	682-08-3	685-08-3	686-08-3
M9.0x1	682-09-3	685-09-3	686-09-3
M10x1	682-10-3	685-10-3	686-10-3
M11x1	682-11-3	685-11-3	686-11-3
M12x1	682-12-3	685-12-3	686-12-3
M14x1	682-14-3	685-14-3	686-14-3
M16x1	682-16-3	685-16-3	686-16-3
M18x1	682-18-3	685-18-3	686-18-3

	Plug Gauge 6H	Ring Gauge"GO" 6g	Ring Gauge"NO GO" 6g
Size	Code No.	Code No.	Code No.
M20	680-20-2	683-20-1	684-20-0
M22	680-22-2	683-22-1	684-22-0
M24	680-24-2	683-24-1	684-24-0
M27	680-27-2	683-27-1	684-27-0
M30	680-30-2	683-30-1	684-30-0
M33	680-33-2	683-33-1	684-33-0
M36	680-36-2	683-36-1	684-36-0
M39	680-39-2	683-39-1	684-39-0
M42	680-42-2	683-42-1	684-42-0
M45	680-45-2	683-45-1	684-45-0
M48	680-48-2	683-48-1	684-48-0
M52	680-52-2	683-52-1	684-52-0
M56	680-56-2	683-56-1	684-56-0
M60	680-60-2	683-60-1	684-60-0
ISO-Metric Fine Thread			
M20x1	682-20-3	685-20-3	686-20-3
M21x1	682-21-3	685-21-3	686-21-3
M22x1	682-22-3	685-22-3	686-22-3
M23x1	682-23-3	685-23-3	686-23-3
M24x1	682-24-3	685-24-3	686-24-3
M25x1	682-25-3	685-25-3	686-25-3
M26x1	682-26-3	685-26-3	686-26-3
M27x1	682-27-3	685-27-3	686-27-3
M28x1	682-28-3	685-28-3	686-28-3
M30x1	682-30-3	685-30-3	686-30-3
M32x1	682-32-3	685-32-3	686-32-3
M33x1	682-33-3	685-33-3	686-33-3
M34x1	682-34-3	685-34-3	686-34-3
M35x1	682-35-3	685-35-3	686-35-3
M36x1	682-36-3	685-36-3	686-36-3
M38x1	682-38-3	685-38-3	686-38-3
M39x1	682-39-3	685-39-3	686-39-3
M40x1	682-40-3	685-40-3	686-40-3
M42x1	682-42-3	685-42-3	686-42-3
M45x1	682-45-3	685-45-3	686-45-3
M48x1	682-48-3	685-48-3	686-48-3
M50x1	682-50-3	685-50-3	686-50-3
M52x1	682-52-3	685-52-3	686-52-3
M55x1	682-55-3	685-55-3	686-55-3
M56x1	682-56-3	685-56-3	686-56-3
M58x1	682-58-3	685-58-3	686-58-3
M60x1	682-60-3	685-60-3	686-60-3
M62x1	682-62-3	685-62-3	686-62-3

Thread Plug Gauges and Ring Gauges

68X Series

Plug Gauge 6H		Ring Gauge"GO" 6g	Ring Gauge"NO GO" 6g
Size	Code No.	Code No.	Code No.
ISO-Metric Fine Thread			
M64x1	682-64-3	685-64-3	686-64-3
M65x1	682-65-3	685-65-3	686-65-3
M68x1	682-68-3	685-68-3	686-68-3
M70x1	682-70-3	685-70-3	686-70-3
M72x1	682-72-3	685-72-3	686-72-3
M75x1	682-75-3	685-75-3	686-75-3
M76x1	682-76-3	685-76-3	686-76-3
M78x1	682-78-3	685-78-3	686-78-3
M80x1	682-80-3	685-80-3	686-80-3
M10x1.25	682-10-4	685-10-4	686-10-4
M12x1.25	682-12-4	685-12-4	686-12-4
M14x1.25	682-14-4	685-14-4	686-14-4
M12x1.5	682-12-5	685-12-5	686-12-5
M14x1.5	682-14-5	685-14-5	686-14-5
M16x1.5	682-16-5	685-16-5	686-16-5
M18x1.5	682-18-5	685-18-5	686-18-5
M20x1.5	682-20-5	685-20-5	686-20-5
M22x1.5	682-22-5	685-22-5	686-22-5
M24x1.5	682-24-5	685-24-5	686-24-5
M25x1.5	682-25-5	685-25-5	686-25-5
M26x1.5	682-26-5	685-26-5	686-26-5
M27x1.5	682-27-5	685-27-5	686-27-5
M28x1.5	682-28-5	685-28-5	686-28-5
M30x1.5	682-30-5	685-30-5	686-30-5
M32x1.5	682-32-5	685-32-5	686-32-5
M33x1.5	682-33-5	685-33-5	686-33-5
M34x1.5	682-34-5	685-34-5	686-34-5
M35x1.5	682-35-5	685-35-5	686-35-5
M36x1.5	682-36-5	685-36-5	686-36-5
M38x1.5	682-38-5	685-38-5	686-38-5
M40x1.5	682-40-5	685-40-5	686-40-5
M42x1.5	682-42-5	685-42-5	686-42-5
M45x1.5	682-45-5	685-45-5	686-45-5
M48x1.5	682-48-5	685-48-5	686-48-5
M50x1.5	682-50-5	685-50-5	686-50-5
M52x1.5	682-52-5	685-52-5	686-52-5
M55x1.5	682-55-5	685-55-5	686-55-5
M56x1.5	682-56-5	685-56-5	686-56-5
M58x1.5	682-58-5	685-58-5	686-58-5
M60x1.5	682-60-5	685-60-5	686-60-5
M62x1.5	682-62-5	685-62-5	686-62-5
M64x1.5	682-64-5	685-64-5	686-64-5
M65x1.5	682-65-5	685-65-5	686-65-5
M68x1.5	682-68-5	685-68-5	686-68-5
M70x1.5	682-70-5	685-70-5	686-70-5
M72x1.5	682-72-5	685-72-5	686-72-5
M75x1.5	682-75-5	685-75-5	686-75-5
M76x1.5	682-76-5	685-76-5	686-76-5
M78x1.5	682-78-5	685-78-5	686-78-5
M80x1.5	682-80-5	685-80-5	686-80-5
M18x2	682-18-6	685-18-6	686-18-6
M20x2	682-20-6	685-20-6	686-20-6
M22x2	682-22-6	685-22-6	686-22-6
M24x2	682-24-6	685-24-6	686-24-6
M26x2	682-26-6	685-26-6	686-26-6
M27x2	682-27-6	685-27-6	686-27-6

Plug Gauge 6H		Ring Gauge"GO" 6g	Ring Gauge"NO GO" 6g
Size	Code No.	Code No.	Code No.
M28x2	682-28-6	685-28-6	686-28-6
M30x2	682-30-6	685-30-6	686-30-6
M32x2	682-32-6	685-32-6	686-32-6
M33x2	682-33-6	685-33-6	686-33-6
M34x2	682-34-6	685-34-6	686-34-6
M35x2	682-35-6	685-35-6	686-35-6
M36x2	682-36-6	685-36-6	686-36-6
M38x2	682-38-6	685-38-6	686-38-6
M39x2	682-39-6	685-39-6	686-39-6
M40x2	682-40-6	685-40-6	686-40-6
M42x2	682-42-6	685-42-6	686-42-6
M45x2	682-45-6	685-45-6	686-45-6
M48x2	682-48-6	685-48-6	686-48-6
M50x2	682-50-6	685-50-6	686-50-6
M52x2	682-52-6	685-52-6	686-52-6
M55x2	682-55-6	685-55-6	686-55-6
M56x2	682-56-6	685-56-6	686-56-6
M58x2	682-58-6	685-58-6	686-58-6
M60x2	682-60-6	685-60-6	686-60-6
M62x2	682-62-6	685-62-6	686-62-6
M64x2	682-64-6	685-64-6	686-64-6
M68x2	682-68-6	685-68-6	686-68-6
M70x2	682-70-6	685-70-6	686-70-6
M72x2	682-72-6	685-72-6	686-72-6
M75x2	682-75-6	685-75-6	686-75-6
M76x2	682-76-6	685-76-6	686-76-6
M78x2	682-78-6	685-78-6	686-78-6
M80x2	682-80-6	685-80-6	686-80-6
M82x2	682-82-6	685-82-6	686-82-6
M85x2	682-85-6	685-85-6	686-85-6
M88x2	682-88-6	685-88-6	686-88-6
M90x2	682-90-6	685-90-6	686-90-6
M92x2	682-92-6	685-92-6	686-92-6
M95x2	682-95-6	685-95-6	686-95-6
M98x2	682-98-6	685-98-6	686-98-6
M100x2	683-00-6	685-00-6	686-00-6
M30x3	682-30-7	685-30-7	686-30-7
M33x3	682-33-7	685-33-7	686-33-7
M36x3	682-36-7	685-36-7	686-36-7
M39x3	682-39-7	685-39-7	686-39-7
M40x3	682-40-7	685-40-7	686-40-7
M42x3	682-42-7	685-42-7	686-42-7
M45x3	682-45-7	685-45-7	686-45-7
M48x3	682-48-7	685-48-7	686-48-7
M50x3	682-50-7	685-50-7	686-50-7
M52x3	682-52-7	685-52-7	686-52-7
M55x3	682-55-7	685-55-7	686-55-7
M56x3	682-56-7	685-56-7	686-56-7
M58x3	682-58-7	685-58-7	686-58-7
M60x3	682-60-7	685-60-7	686-60-7
M62x3	682-62-7	685-62-7	686-62-7
M64x3	682-64-7	685-64-7	686-64-7
M65x3	682-65-7	685-65-7	686-65-7
M68x3	682-68-7	685-68-7	686-68-7
M70x3	682-70-7	685-70-7	686-70-7
M72x3	682-72-7	685-72-7	686-72-7

Whitworth Pipe Thread Plug Gauges and Ring Gauges 690 Series

- Right hand, DIN ISO 228

SPECIFICATIONS

	Plug Gauge	Ring Gauge "GO"	Ring Gauge "NO GO"
Size	Code No.	Code No.	Code No.
G1/16	690-01-1	-	-
G1/8	690-02-1	690-02-3	690-02-4
G1/4	690-03-1	690-03-3	690-03-4
G3/8	690-04-1	690-04-3	690-04-4
G1/2	690-05-1	690-05-3	690-05-4
G5/8	690-06-1	690-06-3	690-06-4
G3/4	690-07-1	690-07-3	690-07-4
G7/8	690-08-1	690-08-3	690-08-4
G1	690-09-1	690-09-3	690-09-4

	Plug Gauge	Ring Gauge "GO"	Ring Gauge "NO GO"
Size	Code No.	Code No.	Code No.
G1-1/8	690-10-1	690-10-3	690-10-4
G1-1/4	690-11-1	690-11-3	690-11-4
G1-1/2	690-12-1	690-12-3	690-12-4
G1-3/4	690-13-1	690-13-3	690-13-4
G2	690-14-1	690-14-3	690-14-4
G2-1/4	690-15-1	690-15-3	690-15-4
G2-1/2	690-16-1	690-16-3	690-16-4
G2-3/4	690-17-1	690-17-3	690-17-4
G3	690-18-1	690-18-3	690-18-4

NPT Thread Plug Gauges and Ring Gauges 690 Series

- NPT ANSI/ASME B.1.20.1*



690-45-3



690-46-1

	Plug Gauge	Ring Gauge
Size	Code No.	Code No.
1/8"-27	690-41-1	690-41-3
1/4"-18	690-42-1	690-42-3
3/8"-18	690-43-1	690-43-3
1/2"-14	690-44-1	690-44-3
3/4"-14	690-45-1	690-45-3
-	-	-

	Plug Gauge	Ring Gauge
Size	Code No.	Code No.
1"-11.5	690-46-1	690-46-3
1-1/4"-11.5	690-47-1	690-47-3
1-1/2"-11.5	690-48-1	690-48-3
2"-11.5	690-49-1	690-49-3
2-1/2"-8	690-50-1	690-50-3
3"-8	690-51-1	690-51-3

Inch Master Setting Ring Gauges 679 Series

FEATURES

- Hardened steel

Size	Accuracy	Taper/Ovality	Code No.	Size	Accuracy	Taper/Ovality	Code No.
.100"	± .00004"	.000012"	679-01-0	1.800"	± .00008"	.000028"	679-11-0
.160"	± .00005"	.000015"	679-02-0	2.000"	± .00010"	.000031"	679-12-0
.175"	± .00005"	.000015"	679-03-0	2.800"	± .00010"	.000031"	679-13-0
.225"	± .00005"	.000015"	679-04-0	3.600"	± .00012"	.000039"	679-14-0
.240"	± .00005"	.000015"	679-05-0	4.000"	± .00012"	.000039"	679-19-0
.350"	± .00005"	.000015"	679-06-0	5.000"	± .00016"	.000047"	679-15-0
.500"	± .00006"	.000019"	679-07-0	7.000"	± .00016"	.000047"	679-16-0
.650"	± .00006"	.000019"	679-08-0	9.000"	± .00019"	.000055"	679-17-0
1.000"	± .00008"	.000024"	679-09-0	11.000"	± .00023"	.000062"	679-18-0
1.400"	± .00008"	.000028"	679-10-0	-	-	-	-



ANSI Inch Thread Plug Gauges and Adjustable Ring Gauges

695 Series



FEATURES

- Aluminum handle
- ANSI Standard

SPECIFICATIONS

	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	Code No.	Code No.	Code No.	Code No.	Code No.
0 - 80	695-01-0	695-01-1	695-01-2	695-01-4	695-01-5
1 - 64	695-02-0	695-02-1	695-02-2	695-02-4	695-02-5
1 - 72	695-03-0	695-03-1	695-03-2	695-03-4	695-03-5
2 - 56	695-04-0	695-04-1	695-04-2	695-04-4	695-04-5
2 - 64	695-05-0	695-05-1	695-05-2	695-05-4	695-05-5
3 - 48	695-06-0	695-06-1	695-06-2	695-06-4	695-06-5
3 - 56	695-07-0	695-07-1	695-07-2	695-07-4	695-07-5
4 - 40	695-08-0	695-08-1	695-08-2	695-08-4	695-08-5
4 - 48	695-09-0	695-09-1	695-09-2	695-09-4	695-09-5
5 - 40	695-10-0	695-10-1	695-10-2	695-10-4	695-10-5
5 - 44	695-11-0	695-11-1	695-11-2	695-11-4	695-11-5
6 - 32	695-12-0	695-12-1	695-12-2	695-12-4	695-12-5
6 - 40	695-13-0	695-13-1	695-13-2	695-13-4	695-13-5
8 - 32	695-14-0	695-14-1	695-14-2	695-14-4	695-14-5
8 - 36	695-15-0	695-15-1	695-15-2	695-15-4	695-15-5
10 - 24	695-16-0	695-16-1	695-16-2	695-16-4	695-16-5
10 - 32	695-17-0	695-17-1	695-17-2	695-17-4	695-17-5
12 - 24	695-18-0	695-18-1	695-18-2	695-18-4	695-18-5
12 - 28	695-19-0	695-19-1	695-19-2	695-19-4	695-19-5
1/4 - 20	695-20-0	695-20-1	695-20-2	695-20-4	695-20-5
1/4 - 28	695-21-0	695-21-1	695-21-2	695-21-4	695-21-5
1/4 - 32	695-22-0	695-22-1	695-22-2	695-22-4	695-22-5
5/16 - 18	695-23-0	695-23-1	695-23-2	695-23-4	695-23-5
5/16 - 24	695-24-0	695-24-1	695-24-2	695-24-4	695-24-5
5-16 - 32	695-25-0	695-25-1	695-25-2	695-25-4	695-25-5
3/8 - 16	695-26-0	695-26-1	695-26-2	695-26-4	695-26-5
3/8 - 24	695-27-0	695-27-1	695-27-2	695-27-4	695-27-5
3/8 - 32	695-28-0	695-28-1	695-28-2	695-28-4	695-28-5
7/16 - 14	695-29-0	695-29-1	695-29-2	695-29-4	695-29-5
7/16 - 20	695-30-0	695-30-1	695-30-2	695-30-4	695-30-5
7/16 - 28	695-31-0	695-31-1	695-31-2	695-31-4	695-31-5
1/2 - 13	695-32-0	695-32-1	695-32-2	695-32-4	695-32-5
1/2 - 20	695-33-0	695-33-1	695-33-2	695-33-4	695-33-5
1/2 - 28	695-34-0	695-34-1	695-34-2	695-34-4	695-34-5
9/16 - 12	695-35-0	695-35-1	695-35-2	695-35-4	695-35-5
9/16 - 18	695-36-0	695-36-1	695-36-2	695-36-4	695-36-5
9/16 - 24	695-37-0	695-37-1	695-37-2	695-37-4	695-37-5
5/8 - 11	695-38-0	695-38-1	695-38-2	695-38-4	695-38-5
5/8 - 18	695-39-0	695-39-1	695-39-2	695-39-4	695-39-5
5/8 - 24	695-40-0	695-40-1	695-40-2	695-40-4	695-40-5
3/4 - 10	695-41-0	695-41-1	695-41-2	695-41-4	695-41-5
3/4 - 16	695-42-0	695-42-1	695-42-2	695-42-4	695-42-5
3/4 - 20	695-43-0	695-43-1	695-43-2	695-43-4	695-43-5
7/8 - 9	695-44-0	695-44-1	695-44-2	695-44-4	695-44-5
7/8 - 14	695-45-0	695-45-1	695-45-2	695-45-4	695-45-5
7/8 - 20	695-46-0	695-46-1	695-46-2	695-46-4	695-46-5
1 - 8	695-47-0	695-47-1	695-47-2	695-47-4	695-47-5
1 - 12	695-48-0	695-48-1	695-48-2	695-48-4	695-48-5



ANSI Metric Thread Plug Gauges and Ring Gauges 696 Series

FEATURES

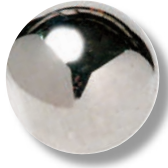
- Aluminum handle
- ANSI Standard

SPECIFICATIONS

Size	Plug Gauge "GO" (6H)	Plug Gauge "NO GO" (6H)	Plug Gauge Double End (6H)	Ring Gauge "GO" (6g)	Ring Gauge "NO GO" (6g)
M1.6 X 0.35	696-01-0	696-01-1	696-01-2	-	-
M1.8 X 0.35	696-02-0	696-02-1	696-02-2	-	-
M2 X 0.4	696-03-0	696-03-1	696-03-2	-	-
M2.2 X 0.45	696-04-0	696-04-1	696-04-2	-	-
M2.5 X 0.45	696-05-0	696-05-1	696-05-2	696-05-4	696-05-5
M3 X 0.5	696-06-0	696-06-1	696-06-2	696-06-4	696-06-5
M3.5 X 0.6	696-07-0	696-07-1	696-07-2	696-07-4	696-07-5
M4 X 0.7	696-08-0	696-08-1	696-08-2	696-08-4	696-08-5
M4.5 X 0.75	696-09-0	696-09-1	696-09-2	696-09-4	696-09-5
M5 X 0.8	696-10-0	696-10-1	696-10-2	696-10-4	696-10-5
M6 X 1	696-11-0	696-11-1	696-11-2	696-11-4	696-11-5
M7 X 1	696-12-0	696-12-1	696-12-2	696-12-4	696-12-5
M8 X 1	696-13-0	696-13-1	696-13-2	696-13-4	696-13-5
M8 X 1.25	696-14-0	696-14-1	696-14-2	696-14-4	696-14-5
M10 X 1.25	696-15-0	696-15-1	696-15-2	696-15-4	696-15-5
M10 X 1.5	696-16-0	696-16-1	696-16-2	696-16-4	696-16-5
M12 X 1.25	696-17-0	696-17-1	696-17-2	696-17-4	696-17-5
M12 X 1.75	696-18-0	696-18-1	696-18-2	696-18-4	696-18-5
M14 X 1.5	696-19-0	696-19-1	696-19-2	696-19-4	696-19-5
M14 X 2	696-20-0	696-20-1	696-20-2	696-20-4	696-20-5
M16 X 1.5	696-21-0	696-21-1	696-21-2	696-21-4	696-21-5
M16 X 2	696-22-0	696-22-1	696-22-2	696-22-4	696-22-5
M18 X 1.5	696-23-0	696-23-1	696-23-2	696-23-4	696-23-5
M18 X 2.5	696-24-0	696-24-1	696-24-2	696-24-4	696-24-5
M20 X 1.5	696-25-0	696-25-1	696-25-2	696-25-4	696-25-5
M20 X 2.5	696-26-0	696-26-1	696-26-2	696-26-4	696-26-5
M22 X 1.5	696-27-0	696-27-1	696-27-2	696-27-4	696-27-5
M24 X 2	696-28-0	696-28-1	696-28-2	696-28-4	696-28-5
M24 X 3	696-29-0	696-29-1	696-29-2	696-29-4	696-29-5
M27 X 2	696-30-0	696-30-1	696-30-2	696-30-4	696-30-5
M27 X 3	696-31-0	696-31-1	696-31-2	696-31-4	696-31-5
M30 X 2	696-32-0	696-32-1	696-32-2	696-32-4	696-32-5
M30 X 3.5	696-33-0	696-33-1	696-33-2	696-33-4	696-33-5
M33 X 2	696-34-0	696-34-1	696-34-2	696-34-4	696-34-5
M33 X 3.5	696-35-0	696-35-1	696-35-2	696-35-4	696-35-5
M36 X 3	696-36-0	696-36-1	696-36-2	696-36-4	696-36-5
M36 X 4	696-37-0	696-37-1	696-37-2	696-37-4	696-37-5
M39 X 3	696-38-0	696-38-1	696-38-2	696-38-4	696-38-5
M39 X 4	696-39-0	696-39-1	696-39-2	696-39-4	696-39-5

Individual Inspection Gauge Balls

679 Series



FEATURES

- Chrome steel hardened to 63 HRC
- Ground and lapped
- Grade 25 accuracy - AFBMA certified
- Certificate NOT supplied with individual gauge balls

SPECIFICATIONS

Size	Code No.	Size	Code No.
1/16"	679-22-0	1/2"	679-38-0
3/32"	679-24-0	17/32"	679-39-0
1/8"	679-25-0	9/16"	679-40-0
9/64"	679-26-0	19/32"	679-41-0
5/32"	679-27-0	5/8"	679-42-0
3/16"	679-28-0	21/32"	679-43-0
7/32"	679-29-0	11/16"	679-44-0
1/4"	679-30-0	23/32"	679-45-0
9/32"	679-31-0	3/4"	679-46-0
5/16"	679-32-0	25/32"	679-47-0
11/32"	679-33-0	13/16"	679-48-0
3/8"	679-34-0	7/8"	679-49-0
13/32"	679-35-0	15/16"	679-50-0
7/16"	679-36-0	1"	679-51-0
15/32"	679-37-0	-	-

Size	Code No.	Size	Code No.
1mm	679-57-0	14mm	679-70-0
2mm	679-58-0	15mm	679-71-0
3mm	679-59-0	16mm	679-72-0
4mm	679-60-0	17mm	679-73-0
5mm	679-61-0	18mm	679-74-0
6mm	679-62-0	19mm	679-75-0
7mm	679-63-0	20mm	679-76-0
8mm	679-64-0	21mm	679-77-0
9mm	679-65-0	22mm	679-78-0
10mm	679-66-0	23mm	679-79-0
11mm	679-67-0	24mm	679-80-0
12mm	679-68-0	25mm	679-81-0
13mm	679-69-0	-	-

Precision Inspection Gauge Ball Sets

679 Series



FEATURES

- Meets all grade 25 AFBMA standards
- Chrome alloy steel, hardened to 63 HRC
- Surface finish to 1.5 Micro-Inches
- Within .0001"/0.0025 mm of actual size
- Spherical accuracy within 0.000025"/0.0006 mm
- Inches - includes: 32 pairs in Inch sizes 1/32" to 1"
- Metric - includes: 25 pairs in Metric sizes 1mm to 25 mm in 1 mm increments

SPECIFICATIONS

	QTY	Description	Code No.
Ball Set - Inch	26 Pair	1/32" to 1"	679-90-1
Ball Set - Metric	25 Pair	1mm to 25 mm in 1 mm increments	679-90-0



36 pcs Round Space Block Set

679 Series



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 HRC 58-60
- Working surfaces precision ground and lapped to $\pm .000050"$
- 4 connecting screws supplied to form desired length

SPECIFICATIONS

Description	Included	Code No.
36 PCS Set	.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.)	679-95-0

Individual Pin Gauges



SPECIFICATIONS

Inch		Bright Finish
Size	Tolerance	Code No.
.011" - 1.000" x 0.001 step	+0/-0.0002 Minus	21-0011 to 21-1000
.011" - 1.000" x 0.001 step	+0.0002/-0 Plus	22-0011 to 22-1000

Metric		
Size	Accuracy	Code No.
0.10 - 10.00 x 0.01 step	$\pm 0.0008\text{mm}$	800-01-0 to 801-00-0
10.01 - 20.00 x 0.01 step	$\pm 0.0015\text{mm}$	801-00-1 to 802-00-0
20.01 - 30.00 x 0.01 step	$\pm 0.0020\text{mm}$	802-00-1 to 803-00-0
0.20 - 10.00 x 0.001 step	$\pm 0.0008\text{mm}$	810-02-00 to 811-00-00
0.10 - 30.00 x 0.01 step	+0.002mm/0	P800-01-0 to P803-00-0
0.10 - 30.00 x 0.01 step	0/-0.002mm	M800-01-0 to M803-00-0

Pin Gauge Sets

697 Series



FEATURES

- For quick and accurate measurements. Measure hole sizes, slot widths, calculate distances between holes, use as Go/NoGo gaging, etc.
- Furnished in attractive molded plastic case.
- Class ZZ guaranteed to .0002"/0.005 mm tolerance limit.
- Inspected with equipment which has been calibrated and is traceable to NIST.
- Marked with size and direction of tolerance on gauge over .060"/1.5 mm.
- Hardened drill rod RC 60-62, 2 inches long.
- 10 micron finish or better.
- Certificate of accuracy included.

SPECIFICATIONS

Qty	Range	Surface	Accuracy: +0.0002" -0"	
			Code No.	Code No.
Sets				
50	.011" - .060" x 0.001 step	Bright Finish	697-01-0	697-01-2
190	.061" - .250" x 0.001 step	Bright Finish	697-02-0	697-02-2
250	.251" - .500" x 0.001 step	Bright Finish	697-03-0	697-03-2
125	.501" - .625" x 0.001 step	Bright Finish	697-04-0	697-04-2
125	.626" - .750" x 0.001 step	Bright Finish	697-05-0	697-05-2
82	.751" - .832" x 0.001 step	Bright Finish	697-06-0	697-06-2
84	.833" - .916" x 0.001 step	Bright Finish	697-07-0	697-07-2
84	.917" - 1.000" x 0.001 step	Bright Finish	697-08-0	697-08-2

Pin Gauge Handles

697 Series



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

SPECIFICATIONS

Gauge Size Range	Code No.
0.011" - 0.060"	697-41-0
0.061" - 0.250"	697-41-1
0.251" - 0.500"	697-41-2
0.501" - 0.625"	697-41-3
0.626" - 0.750"	697-41-4
0.751" - 0.832"	697-41-5
0.833" - 1.000"	697-41-6

Pin Gauge Sets

698 \ 699 Series

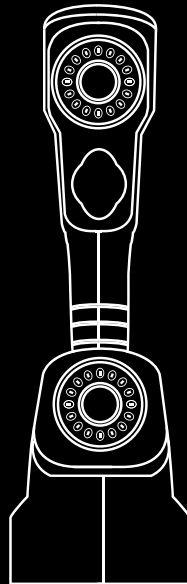
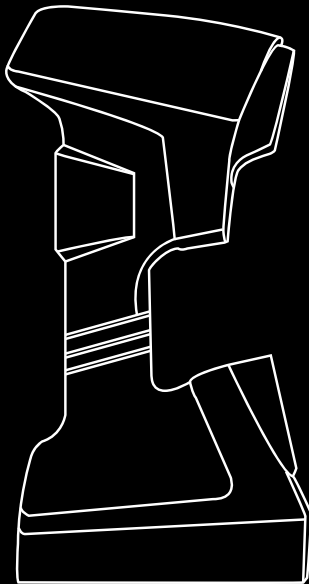
SPECIFICATIONS

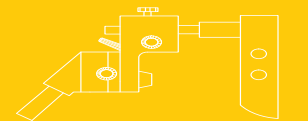
Range	Step	Length	Accuracy
0.05 - 0.09mm step	0.01mm	5-10mm	±0.5µm
0.10 - 0.19mm step	0.01mm	40mm	±0.8µm
0.200 - 0.999mm step	0.01mm	40mm	±0.8µm
1.000 - 10.000mm step	0.01mm	50mm	±0.8µm
10.01 - 20.00mm step	0.01mm	50mm	±1.5µm
20.01 - 30.00mm step	0.01mm	50mm	±2µm

Qty	Range		Qty	Range	
Metric Sets		Code No.	Metric Sets		Code No.
24	0.06 - 0.29mm x 0.01mm step	698-20-0	51	0.50 - 0.75mm x 0.005mm step	698-20-1
31	0.20 - 0.50mm x 0.01mm step	698-21-0	51	0.75 - 1.00mm x 0.005mm step	698-21-1
51	0.50 - 1.00mm x 0.01mm step	698-22-0	51	1.00 - 1.25mm x 0.005mm step	698-22-1
51	1.00 - 1.50mm x 0.01mm step	698-23-0	51	1.25 - 1.50mm x 0.005mm step	698-23-1
51	1.50 - 2.00mm x 0.01mm step	698-24-0	51	1.50 - 1.75mm x 0.005mm step	698-24-1
51	2.00 - 2.50mm x 0.01mm step	698-25-0	51	1.75 - 2.00mm x 0.005mm step	698-25-1
51	2.50 - 3.00mm x 0.01mm step	698-26-0	51	2.00 - 2.25mm x 0.005mm step	698-26-1
51	3.00 - 3.50mm x 0.01mm step	698-27-0	51	2.25 - 2.50mm x 0.005mm step	698-27-1
51	3.50 - 4.00mm x 0.01mm step	698-28-0	51	2.50 - 2.75mm x 0.005mm step	698-28-1
51	4.00 - 4.50mm x 0.01mm step	698-29-0	51	2.75 - 3.00mm x 0.005mm step	698-29-1
51	4.50 - 5.00mm x 0.01mm step	698-30-0	51	3.00 - 3.25mm x 0.005mm step	698-30-1
51	5.00 - 5.50mm x 0.01mm step	698-31-0	51	3.25 - 3.50mm x 0.005mm step	698-31-1
51	5.50 - 6.00mm x 0.01mm step	698-32-0	51	3.50 - 3.75mm x 0.005mm step	698-32-1
51	6.00 - 6.50mm x 0.01mm step	698-33-0	51	3.75 - 4.00mm x 0.005mm step	698-33-1
51	6.50 - 7.00mm x 0.01mm step	698-34-0	51	4.00 - 4.25mm x 0.005mm step	698-34-1
51	7.00 - 7.50mm x 0.01mm step	698-35-0	51	4.25 - 4.50mm x 0.005mm step	698-35-1
51	7.50 - 8.00mm x 0.01mm step	698-36-0	51	4.50 - 4.75mm x 0.005mm step	698-36-1
51	8.00 - 8.50mm x 0.01mm step	698-37-0	51	4.75 - 5.00mm x 0.005mm step	698-37-1
51	8.50 - 9.00mm x 0.01mm step	698-38-0	51	5.00 - 5.25mm x 0.005mm step	698-38-1
51	9.00 - 9.50mm x 0.01mm step	698-39-0	51	5.25 - 5.50mm x 0.005mm step	698-39-1
51	9.50 - 10.00mm x 0.01mm step	698-40-0	51	5.50 - 5.75mm x 0.005mm step	698-40-1
51	10.00 - 10.50mm x 0.01mm step	698-41-0	51	5.75 - 6.00mm x 0.005mm step	698-41-1
51	10.50 - 11.00mm x 0.01mm step	698-42-0	51	6.00 - 6.25mm x 0.005mm step	698-42-1
51	11.00 - 11.50mm x 0.01mm step	698-43-0	51	6.25 - 6.50mm x 0.005mm step	698-43-1
51	11.50 - 12.00mm x 0.01mm step	698-44-0	51	6.50 - 6.75mm x 0.005mm step	698-44-1
51	12.00 - 12.50mm x 0.01mm step	698-45-0	51	6.75 - 7.00mm x 0.005mm step	698-45-1
51	12.50 - 13.00mm x 0.01mm step	698-46-0	51	7.00 - 7.25mm x 0.005mm step	698-46-1
51	13.00 - 13.50mm x 0.01mm step	698-47-0	51	7.25 - 7.50mm x 0.005mm step	698-47-1
51	13.50 - 14.00mm x 0.01mm step	698-48-0	51	7.50 - 7.75mm x 0.005mm step	698-48-1
51	14.00 - 14.50mm x 0.01mm step	698-49-0	51	7.75 - 8.00mm x 0.005mm step	698-49-1
51	14.50 - 15.00mm x 0.01mm step	698-50-0	51	8.00 - 8.25mm x 0.005mm step	698-50-1
51	15.00 - 15.50mm x 0.01mm step	698-51-0	51	8.25 - 8.50mm x 0.005mm step	698-51-1
51	15.50 - 16.00mm x 0.01mm step	698-52-0	51	8.50 - 8.75mm x 0.005mm step	698-52-1
51	16.00 - 16.50mm x 0.01mm step	698-53-0	51	8.75 - 9.00mm x 0.005mm step	698-53-1
51	16.50 - 17.00mm x 0.01mm step	698-54-0	51	9.00 - 9.25mm x 0.005mm step	698-54-1
51	17.00 - 17.50mm x 0.01mm step	698-55-0	51	9.25 - 9.50mm x 0.005mm step	698-55-1
51	17.50 - 18.00mm x 0.01mm step	698-56-0	51	9.50 - 9.75mm x 0.005mm step	698-56-1
51	18.00 - 18.50mm x 0.01mm step	698-57-0	51	9.75 - 10.00mm x 0.005mm step	698-57-1
51	18.50 - 19.00mm x 0.01mm step	698-58-0	50	0.300 - 1.525mm x 0.025mm step	699-21-0
51	19.00 - 19.50mm x 0.01mm step	698-59-0	190	1.550 - 6.275mm x 0.025mm step	699-22-0
51	19.50 - 20.00mm x 0.01mm step	698-60-0	140	6.300 - 9.775mm x 0.025mm step	699-23-0
20	0.10 - 0.29mm x 0.01mm step	699-20-0	110	9.800 - 12.525mm x 0.025mm step	699-24-0
61	13.0 - 19.0mm x 0.1mm step	699-26-0	18	12.550 - 12.975mm x 0.025mm step	699-25-0

Testers & Optical Instrument

170	Archer Portable 3D Scanner
171	Standard 2D Vision Measuring System (Manual)
172	Standard 2D Vision Measuring System (CNC)
173	Multi Sensor Measuring System (CNC)
174	3D Image Coordinate Measuring Machine Micromea443
175	3D Image Coordinate Measuring Machine 648-04-1P
176	2D Height Gauge
177	Concentricity Gauges
178	Vertical Profile Projectors
179	Surface Roughness Tester
179	Surface Roughness Standards
180	Digital Coating Thickness Gauges
180	Ultrasonic Thickness Gauge
181	Impact Hardness Testers
181	Shore Scale A Durometer
182	Rockwell Type Hardness Testers
182	Digital Twin Rockwell Hardness Tester
183	Touch Screen Rockwell Type Hardness Testers
183	Brinell Hardness Testers
184	Hardness Test Blocks
184	Hardness Tester Penetrators
185	Microscope





Archer Portable 3D scanner



FEATURES

- Asimeto's Archer is a revolutionary industrial portable laser scanner, which can provide faster scanning speed and more accurate result at the same time. Also it provides ultra fine scanning mode for the ultra fine detail structure
- The optimized operation provides auto alignment scanning mode, the workpiece and scanner can be moved freely during scanning process. It can be scanned easily, no matter how complex the structure or shape is. The machine can be brought to anywhere, and work onsite easily at workshop, lab, in the car, even outdoor
- Laser scanning will not be affected by the environment and scanned material. It can directly scan on any surface including black color or shining metal, and save lots of cleaning time after the scanning process
- Metrology-Grade stability, accuracy and repeatability
- Environment will not affect the accuracy
- Moving speed will not affect the accuracy
- Don't need any other equipment except PC
- Small and light design
- Can complete scanning process in limited area
- Easy to be used
- Software can be controlled over the button on the machine
- Real time scanning

STANDARD SCANNING MODE (RED LASER)

Code No.	666-03-0	666-13-0	666-07-0	666-17-0
Machine Model	Archer 3	Archer 3U	Archer 3	Archer 7U
Scanning Speed	265,000 points/sec		480,000 points/sec	
Scanning Area	225x250 mm		27 x250 mm	
Scanning Distance	200 ~ 450 mm			
Best Scanning Distance	300 mm			
Depth of Field	250 mm			
Resolution	0.05 mm			
Accuracy	0.03 mm			
Volumetric Accuracy	0.02 mm + 0.08 mm/m		0.02 mm + 0.06 mm/m	
Light Source	3 red laser crosses + 1 extra line		7 red laser crosses + 1 extra line	
Weight	0.95 kg			
Dimension	160 x 98 x 320 mm			
Part Size Range (recommended)	10 ~ 6000 mm			
Output Format	.stl, .ply, .xyz, .dae, .fbx, .ma, .obj, .asc			
Laser Class	2M (eye-safe)			
Connection Standard	Gigabit Ethernet			
Operating Environment	Temperature : -10 ~ 40 C°, Humidity : 10 ~ 90 %			

FINE SCANNING MODE (BLUE LASER)

	Fine Scanning Mode
Scanning Speed	320,000 points/sec
Scanning Distance	100 ~ 200 mm
Best Scanning Distance	150 mm
Depth of Field	100 mm
Resolution	0.02 mm
Accuracy	0.02 mm
Light Source	5 parallel blue laser lines

Note: Only available for Ultra series



Standard 2D Vision Measuring System (Manual)



MVS2010

FEATURES

- High precision marble base and mechanical structure provide great stability and rigidity.
- High precision toothless rod and fast moving locking device, to ensure hysteresis errors within 2 μ m.
- High accuracy A grade optical linear scale with precision working stage, to ensure the accuracy is within 2.5+L / 200 μ m.
- High definitive detented zoom lens and high resolution color digital camera, to ensure clear image without distortion.
- With programmable surface 4-ring 8-division LED Cold Illumination and contour LED parallel illumination and internal intelligent light adjustment, it can automatic control the brightness in the 4-ring 8-division.

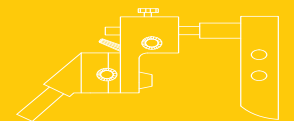
SPECIFICATIONS

Code No.	647-01-0	647-02-0	647-03-0	647-04-0	647-05-0
Model No.	MVS2010	MVS2515	MVS3020	MVS4030	MVS5040
Metal Table	408x308mm	408x308mm	458x358mm	608x470mm	708x470mm
Glass Table	306x198mm	306x198mm	356x248mm	456x348mm	556x348mm
X/Y-axis Travel	200x100mm	250x150mm	300x200mm	400x300mm	500x400mm
Dimension (WxDxH)	790x617x1000mm	790x617x1000mm	838x667x1000mm	1002x817x1043mm	1002x867x1043mm
Net Weight	175Kg	175Kg	185Kg	350Kg	380Kg
Z-axis Travel	High-Precision Linear Guide , Working Travel 200mm				
X/Y/Z-axis Travel	0.0005mm				
X/Y-axis Accuracy*	$\leq 2.5+L/200$ (μ m)				
Repeatability	2 μ m				
Base and Pillar	High Accuracy Marble				
Illumination System (Software Adjustment)	Surface: Stepless Adjustable 4-Ring 8-Division LED Cold Illumination				
	Contour: LED Parallel Illumination				
	LED Laser Navigation Lights				
CCD Camera	High Resolution 700TV Color CCD Camera				
Zoom lens* *	6.5X High Resolution Detented Zoom Lens				
	Magnification: 0.7X-4.5X; Video Magnification: 26X-172X				
Working Environment	Temperature: 20°C \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.

** Magnification is approximate value, it is related to the dimension of monitor and resolution.

Customers can choose 0.5X or 2X optional objective, and realize image magnification: 13X - 86X or 52X -344X.



Standard 2D Vision Measuring System (CNC)



CVS5040B

FEATURES

- High precision marble base and mechanical structure provide great stability and rigidity.
- Strueter of 3020 (P) / 4030 (P) is different from that of big size machine (over5040B (P)).
- Four-axis CNC fully auto close loop control, auto measurement.
- Open type linear scale, high accuracy, great stability.
- Precision linear guide, grinding ball screw and AC servo motor, ensure accuracy stability
- Imported high definition color industry camera, ensure clear observation and stable measurement requirement.
- Programmable 5-ring 8-division LED surface illumination, contour parallel LED illumination, can realize 256 grade brightness adjustment intelligently.
- Can set auto measurement, and process batch measurement with high efficiency.

SPECIFICATIONS

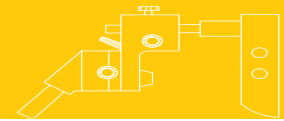
Code No.	647-03-1	647-04-1	647-05-1	647-06-1	647-08-1
Model No.	CVS3020	CVS4030	CVS5040B	CVS6050B	CVS8060B
X/Y-axis Travel	300x200mm	400x300mm	500x400mm	600x500mm	800x600mm
Load Capacity	25Kg	25Kg	30Kg	30Kg	30Kg
Dimension (WxDxH)	1200x780x1650mm	1350x880x1650mm	1450x950x1650mm	1600x1050x1650mm	2000x1200x1650mm
Packing Dimension	1360x1030x1650mm	1460x1100x1900mm	1690x1300x2000mm	1800x1400x2000mm	2300x1700x2000mm
Weight	380Kg	450Kg	780Kg	1380Kg	2000Kg
Z-axis Travel	200mm				
X/Y/Z 3-axis Linear Scale	High Precision Linear Scale, Resolution: 0.0005mm		High Precision Linear Scale, Resolution: 0.0001mm		
Guidance Mode	Precision Linear Guide, Double-Track Double Silder Guide		Imported H Grade Linear Guide: Double-Track Double Slider Guide		
Operation Mode	Joystick Controller, Mouse Operation, Automatic Detection Program				
Measurement Accuracy*	XY-axis: $\leq 2.2+L/200$ (μm)		XY-axis: $\leq 1.8+L/200$ (μm)		
	Z-axis: $\leq 5+L/200$ (μm)				
Repeatability	$\pm 2\mu\text{m}$				
Video System**	Hight definition 1/3" Color CCD Camera		1/2" Color CCD Camera		
	6.5X Continue Click Zoom Lens; Optical Magnification: 0.7X - 4.5X		6.5X Automatic Zoom Lens; Optical Magnification: 0.7X-4.5X		
Field of View***	0.7X - 4.5X				
	8.57x6.86x5.14 - 1.33x1.07x0.80		11.43x9.14x6.86 - 1.78x1.42x1.07		
Illumination	Contour	LED Parallel Contour Illumination			
	Surface	5-Ring 8-Division 0-255 Grade Continue Adjustable			

* L is measuring length, unit is mm, the mechanical accuracy of Z-axis and focus accuracy is greatly related to the surface of the workpiece.

** Magnification is approximate value, it is related to the dimension of monitor and resolution.

Customers can choose 0.5X or 2X optional objective. and realize image magnification: 13X - 86X or 52X -344X.

***Optional lens magnification : 0.7X, 1X, 2.0X, 3.0X, 4.0X 4.5X



Multi Sensor Measuring System (CNC)



CVS5040B

FEATURES

- High precision marble base and mechanical structure provide great stability and rigidity.
- Strutter of 3020 (P) / 4030 (P) is different from that of big size machine (over5040B (P)).
- Four-axis CNC fully auto close loop control, auto measurement.
- Open type linear scale, high accuracy, great stability.
- Precision linear guide, grinding ball screw and AC servo motor, ensure accuracy stability
- Imported high definition color industry camera, ensure clear observation and stable measurement requirement.
- Programmable 5-ring 8-division LED surface illumination, contour parallel LED illumination, can realize 256 grade brightness adjustment intelligently.
- Equipped with Renishaw touch probe, realize 3D measurement.
- Can set auto measurement, and process batch measurement with high efficiency.

SPECIFICATIONS

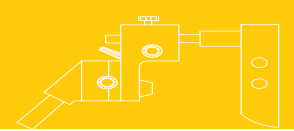
Code No.	647-03-1P	647-04-1P	647-05-1P	647-06-1P	647-08-1P
Model No.	CVS3020P	CVS4030P	CVS5040BP	CVS6050BP	CVS8060BP
X/Y-axis Travel	300x200mm	400x300mm	500x400mm	600x500mm	800x600mm
Load Capacity	25Kg	25Kg	30Kg	30Kg	30Kg
Dimension (WxDxH)	1200x780x1650mm	1350x880x1650mm	1450x950x1650mm	1600x1050x1650mm	2000x1200x1650mm
Packing Dimension	1360x1030x1650mm	1460x1100x1900mm	1690x1300x2000mm	1800x1400x2000mm	2300x1700x2000mm
Weight	380Kg	450Kg	780Kg	1380Kg	2000Kg
Z-axis Travel	200mm				
X/Y/Z 3-axis Linear Scale	High precision Linear Scale, Resolution: 0.0005mm		High Precision Linear Scale, Resolution: 0.0001mm		
Guidance Mode	Precision Linear Guide, Double-Track Double Silder Guide		Imported H Grade Linear Guide: Double-Track Double Slider Guide		
Operation Mode	Joystick Controller, Mouse Operation, Automatic Detection Program				
Measurement Accuracy*	XY-axis: $\leq 2.2+L/200$ (μm)		XY-axis: $\leq 1.8+L/200$ (μm)		
	Z-axis: $\leq 5+L/200$ (μm)				
Repeatability	$\pm 2\mu\text{m}$				
Video System* *	High Definition 1/3" Color CCD Camera		1/2" Color CCD Camera		
	6.5X Continue Click Zoom Lens; Optical Magnification: 0.7X - 4.5X		6.5X Automatic Zoom Lens; Optical Magnification: 0.7X-4.5X		
Field of View* **	0.7X - 4.5X				
	8.57x6.86x5.14 - 1.33x1.07x0.80		11.43x9.14x6.86 - 1.78x1.42x1.07		
Illumination	Contour	LED Parallel Contour Illumination			
	Surface	5-Ring 8-Division 0-255 Grade Continue Adjustable			

* L is measuring length, unit is mm, the mechanical accuracy of Z-axis and focus accuracy is greatly related to the surface of the workpiece.

** Magnification is approximate value, it is related to the dimension of monitor and resolution.

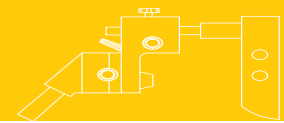
Customers can choose 0.5X or 2X optional objective, and realize image magnification: 13X - 86X or 52X - 344X.

***Optional lens magnification : 0.7X, 1X, 2.0X, 3.0X, 4.0X, 4.5X



3D Image Coordinate Measuring Machine





3D Image Coordinate Measuring Machine 648-04-1P

FEATURES

- Four-axis CNC fully auto loop control, auto measurement;
- Marble base and pillar, stable and reliable;
- Imported open type linear scale, resolution is 0.1 μ m, high accuracy, great stability;
- Imported P-grade linear guide, precision grinding ball screw and AC servo motor, ensure accuracy stability of system position;
- Imported high definition color industry camera, ensure clear observation and stable measurement requirement;
- 6.5X continue auto zoom lens, precision auto zoom, only need to make pixel calibration once time;
- Programmable 5-ring 8-division LED surface illumination, contour parallel LED illumination, can realize 256 grade brightness adjustment intelligently;
- With proprietary fully auto measuring software Rational vue, powerful function, simple operation;
- Optional touch probe and laser probe, it can also be customized according to customer request.

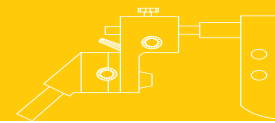
SPECIFICATIONS

Code No.		648-04-1P					
Model No.		CVM4040BP					
X/Y-axis Travel		40 x400mm					
Z-axis Travel		300mm					
X/Y/Z 3-axis Linear Scale		Resolution: 0.0001mm					
Guidance Mode		High-Precision Double-Track Linear Guide					
Operation Mode		Joystick Controller, Mouse Operation, Automatic Detection Program					
Probe System		TP20 and MCR20 Probe Change System					
Measurement Accuracy*		XY-axis: $\leq 2+L/200$ (μ m)					
		Z-axis: $\leq 3+L/200$ (μ m)					
Repeatability		31.8um					
Video System* *		6.5X Automatic Zoom Lens; Optical Magnification: 0.7X-4.5X, Video Magnification: 20X-129X(21.5"Monitor)					
Field of View (mm)	Lens Magnification	0.7X	1X	2.0X	3.0X	4X	4.5X
	1/2"CCD	11.43x9.14x6.86	8.00x6.40x4.80	4.00x3.20x2.40	2.67x2.13x1.60	2.00x1.60x1.20	1.78x1.42x1.07
Illumination	Contour	LED Parallel Contour Illumination					
	Surface	5-Ring 8-Division 0-255 Grade Continue Adjustable					
Software System		RationalVue MS					
Load Capacity		30Kg					
Working Environment		Temperature 20°C \pm 2°C, Humidity Range < 2°C /hr, Humidity 30-80%, Vibration < 0.002g, < 15Hz					
Power		220V/50Hz/10A					
Dimension		1600x1050x1650mm					
Packing Dimension		1800x1400x2000mm					
Weight		1380Kg					

* L is measuring length, unit is mm, the mechanical accuracy of Z-axis and focus accuracy is greatly related to the surface of the workpiece.

**Magnification is approximate value, it is related to the dimension of monitor and resolution.

Customers can choose 0.5X or 2X optional objective, and realize image magnification: 10X-64.5X or 40X-258X.



2D Height Gauge

Value^{Plus} 300/600

628 Series



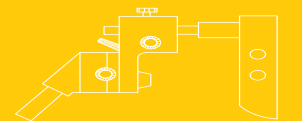
FEATURES

- 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

SPECIFICATIONS

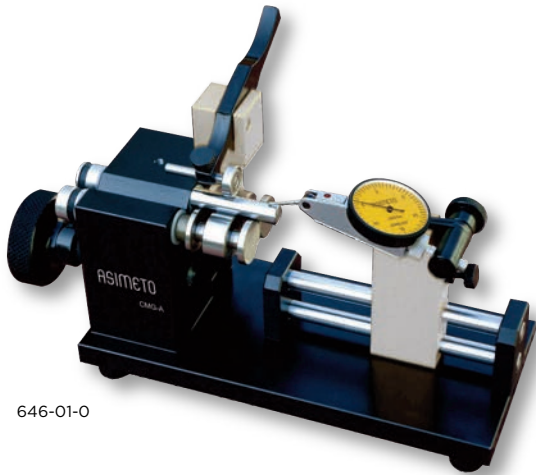
	Value ^{Plus} 300	Value ^{Plus} 600
Item Code	628-12-0	628-24-0
Measuring Range (in/mm)	12" / 300	24" / 600
Extended Measuring Range (mm)	570	870
Probe Holder Diameter (mm)	Ø8	
Resolution (mm)	0.01 / 0.001 / 0.0001	
Measuring Accuracy (µm)	(2.6+5L) µm*(L unit: m)	
Repeatability (µm)	Flat ≤ 1µm*	
	Spherical ≤ 3µm*	
Display	Color LCD, 6.4"	
Motor Max Speed (mm/s)	75	
Drive System	Motor Driver / Manual	
Measuring Force (N)	1.5 ± 0.5	
Working Temperature (C) [°]	10 to 30	
IP Rate	IP40	
Height (mm)	709	1009
Weight (kg)	20	22
Interfaces	USB x 3	
Air Cushion	Yes	
Power Supply	AC Adapter / Battery (Li-ion)	

*Guaranteed at (20±1)° C with standard probe



Concentricity Gauges

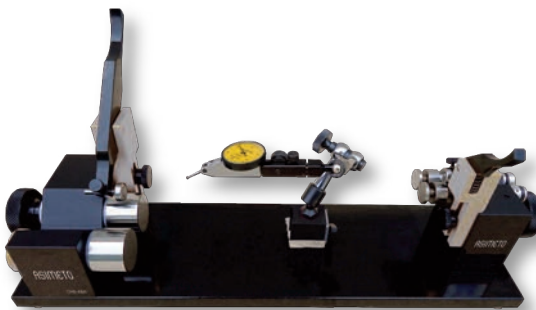
646 Series



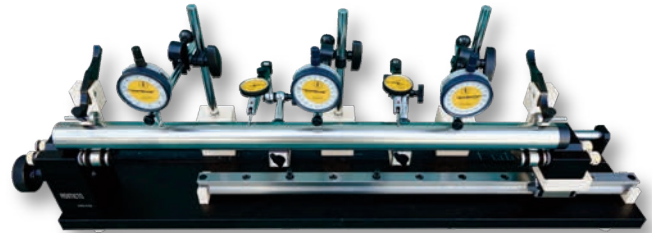
646-01-0

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
- T Series



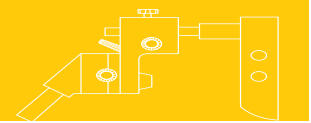
646-04-0



646-12-0

SPECIFICATIONS

Clip Outer Dia. (mm)	Size (mm)	Model	Code No.
Ø1 - Ø30	260 x 98 x 110	CMG-A	646-01-0
Ø1 - Ø30	260 x 170 x 150	CMG-AA	646-02-0
Ø30 - Ø90	330 x 140 x 95	CMG-AB	646-03-0
Ø1 - Ø90	520 x 140 x 200	CMG-ABA	646-04-0
Ø1 - Ø40	390 x 98 x 110	CMG-AL	646-05-0
Ø1 - Ø30	260 x 98 x 110	CMG-AR	646-06-0
Ø1 - Ø35	390 x 98 x 110	CMG-B1	646-07-0
Ø1 - Ø35	390 x 98 x 110	CMG-B1R	646-08-0
Ø1 - Ø35	500 x 98 x 120	CMG-B3	646-09-0
Ø1 - Ø35	500 x 98 x 120	CMG-B3R	646-10-0
Ø1 - Ø40	600 x 200 x 250	CMG-A-S3	646-11-0
Ø1 - Ø40	850 x 190 x 350	CMG-A-S6	646-12-0
Ø1 - Ø40	1250 x 190 x 350	CMG-A-S10	646-13-0



Vertical Profile Projectors

641 Series



641-01-0

FEATURES

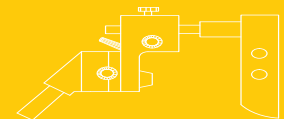
- Used to inspect the profiles of a wide variety of parts and components
- Designed to provide an excellent quality image with accurate magnification
- The error of the contour measuring is under 0.08% deviation
- A convenient foot switch transfers the coordinate data to the data processing system
- Provides the data processing system and foot-switch, which are convenient to output and gather the data

STANDARD ACCESSORIES

1 Main body	1 pc
2 Lens	1 pc
3 Corresponding semi-reflective (Equipped With the Lens)	1 pc
4 Spring Fixture of screen	4 pcs
5 2m Power wire	1 pc
6 Instruction manual	1 pc
7 Certification	1 pc
8 Packaging list	1 pc
9 4A/5 x 20 Fuse	5 pcs
10 24V 150W Halogen bulb	2 pcs

SPECIFICATIONS

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 Qm L: Measuring Length (mm)	4.0+L/25 Qm L: Measuring Length (mm)
	Resolution (X/Y-axis)	0.001 mm (1µm) or 0.0005 mm (0.5µm)	0.001 mm (1Qm) 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 (Option) 50X (Option)	10X (Standard) 20X (Option) 50X (Option)
	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	



Surface Roughness Tester 645 Series



FEATURES

- Main Unit
- Sensor
- Adjustable height support feet
- Calibration test block
- Test block bracket
- Extension cable
- Touch pen
- Charger
- USB cable
- Operating manual

SPECIFICATIONS

		Code No.
Measuring Range	X axis: 17.5mm/ 0.69"	645-13-0
	Z axis: 320 μ m (-160 μ m - 160 μ m) / 12600 μ in (-6300 μ in - +6300 μ in)	
Sampling Length	0.25、0.8、2.5mm	
Measuring Speed	0.135、0.5、1mm/s, 1mm/s (Return)	
Measuring Force	4mN	
Stylus Tip	Diamond, 90° / 5 μ mR tip radius	
Size	Control Unit: 160x64x53mm	
	Drive Unit: 115x23x27mm	
Power Supply	Built-in 3200mAh Rechargeable Lithium Ion Battery; AC Adapter	

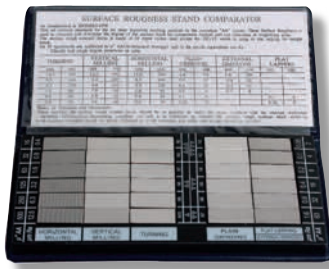
STANDARD ACCESSORIES

- 3.5-inch color graphic touch screen, provide 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、R_{PC}、Rk、Rpk、Rvk、Mr1、Mr2.
- Complies with the following standards: ISO、DIN、ANSI、JIS.
- Support Bluetooth printer and mobile APP wireless operation.
- Large capacity data storage, can store 100 item of raw data and measured profile.
- With automatic sleep, automatic shutdown power-saving features.
- Can connected to the computer and printer.
- Optional accessories include curved surface sensor, deep groove sensor, small hole sensor, measurement stand, Sleeve of sensor, printer and analysis software.

OPTIONAL ACCESSORIES

- Curved Surface Sensor
- Deep Groove Sensor
- Small hole Sensor
- Nosepiece for flat surface sensor
- Thermal printer

Surface Roughness Standards 506 Series

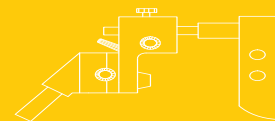


FEATURES

- Set of 30 specimens, 7/8" x 3/8" electro formed, solid nickel
- Used for the visual comparison of surface roughness

SPECIFICATIONS

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	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



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 non-ferrous coatings on non-ferrous metal substrates.
- Data storage capacity of 20 groups of 50 actual measured values.
- Metric / Inch conversion
- Working voltage: 3V (2, 5 alkaline batteries).
- 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.
- Measured values and user information are shown on a large, easy-to-read LCD. a back lit display ensures easy reading of the data in poorly-lit environments.
- Battery level indicator provides the remaining battery voltage.
- Auto sleep and auto power off functions increases battery life.
- Compact Aluminum case provides storage protection.

STANDARD ACCESSORIES

- Probe 1 pc
- Calibration Foils 5 pcs
- Zero plate 1 pc
- Manual 1 pc
- Alkaline Battery 2 pcs

SPECIFICATIONS

Range	Resolution	Probes	Remark	Code No.
0-1250 μm	0.1 μm	N1	For measuring thickness of non-conductive, non-magnetic coating on non-magnetic metal substrate	506-10-0
0-1250 μm	0.1 μm	F1	For measuring thickness of non-magnetic coating on magnetic metal substrate	506-10-1
0-10000 μm	0.1 μm	F10	For measuring thickness of non-magnetic coating on magnetic metal substrate	506-10-3

Ultrasonic Thickness Gauge

506 Series



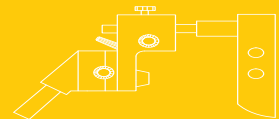
506-20-0

FEATURES

- Black metal back shell.
- Display: 128 x 64 LCD with LED backlight.
- Measuring range: 0.75mm-300.0mm (0.03inch-15.7 inch)
- Display resolution: 0.01mm (smaller than 99.99mm) / 0.1mm (larger than 100mm)
- Sound Velocity Range: 1000m/s-9999m/s (0.039-0.394in/us)
- Accuracy (H is measuring thickness):
 - $\pm 0.05\text{mm}$ ($H < 10\text{mm}$)
 - $\pm (0.5\%H + 0.05)$ mm ($10\text{mm} < H < 100\text{mm}$)
 - $\pm (0.6\%H)$ mm ($H > 100\text{mm}$)
- Data memory: 5 files (up to 100 values for each file) of stored values
- Units: Metric/Imperial unit selectable.

SPECIFICATIONS

Range	Resolution	Probes	Remark	Code No.
0.75-300mm (0.03inch-15.7 inch)	0.01 mm / 0.1mm	5M	Black metal shell	506-20-0



Impact Hardness Testers

640 Series



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 times, 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.
- USB1.1 port allows for information to be uploaded directly to a pc
- 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

STANDARD ACCESSORIES

- Impact device 1 pc
- Hardness test block 1 pc
- Battery Charger 1 pc
- Paper for printing 1 pc
- Manual 1 pc

SPECIFICATIONS

Range	Accuracy	Application Range	Impact devices	Impact Capacity	Code No.
(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	640-17-1
		Test hole or hollow cylindrical	DC	11 Nmm	640-17-2
		Test small, light, thin parts and surface of hardened layer	C	2.7 Nmm	640-17-3
		Test groove or re-entrant surface	D+15	11 Nmm	640-17-4
		Test slender narrow groove or hole	DL	11 Nmm	640-17-5
		Test large, thick, heavy and rough surface steel	G	90 Nmm	640-17-6

Shore Scale A Durometer

640 Series

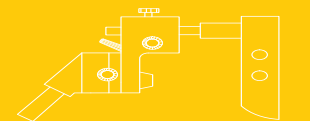


FEATURES

- Used for precisely determining the Shore hardness value of rubber & plastic materials

SPECIFICATIONS

Code No.	640-06-0
Range	20-90HA
Test Force	0.55-8.06N (56-82 lgf)
Dimension	110 x 58 x 30mm
Weight	Approx. 500g



Rockwell Type Hardness Testers

640 Series



640-01-0



640-02-0

FEATURES

- For testing the hardness of various materials to determine the Rockwell hardness to scales A, B and C
- Unit is designed with mechanical loads for precise hardness readings
- Conform to the requirements of ASTM E18, ISO 6508-2 and GB/T 230.2 standards
- Readings provided to a minimum resolution 0.5HR

STANDARD ACCESSORIES

- Diamond cone penetrator 1 pc
- V-notch anvil 1 pc
- Small flat anvil 1 pc
- Large flat anvil 1 pc
- Rockwell standard 5 pcs
- 1/16" steel ball penetrator 1 pc
- Instruction manual 1 pc

SPECIFICATIONS

Range	Test Force	Test Height	Throat Depth	Code No.
20-88HRA, 20-100HRB, 20-70HRC	588.4, 980.7, 1471N (60, 100, 150kgf)	170mm	135mm	640-01-0
20-88HRA, 20-100HRB, 20-70HRC	588.4, 980.7, 1471N (60, 100, 150kgf)	400mm	160mm	640-02-0

Digital Twin Rockwell Hardness Tester

640 Series

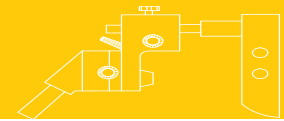


FEATURES

- 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 transmitted to external computer automatically by 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

SPECIFICATIONS

Rockwell Scales	Test Force	Resolution	Test Height	Throat Depth	Code No.
HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV	147.1, 294.3, 441.3N (15, 30, 45kgf)	0.1HR	260mm	150mm	640-20-3



Touch Screen Rockwell Type Hardness Testers

640 Series



640-01-1

FEATURES

- Half automatic hardness tester except loading initial force and change force knob, Operation is very convenient and fast
- Color touch screen, displays loading force, indenter type, dwell time, and conversion scale
- Auto hardness conversion to others scales, no need to check table and improve working efficiency
- Support Multiple languages, English, Turkish, German, etc. Convenient for local customers operation
- Optional blue tooth mini printer is available

SPECIFICATIONS

Range	Test Force	Test Height	Code No.
20-88HRA, 20-100HRB, 20-70HRC	588.4, 980.7, 1471N (60, 100, 150kgf)	175mm	640-01-1

Brinell Hardness Testers

640 Series



640-10-1



640-10-7

FEATURES

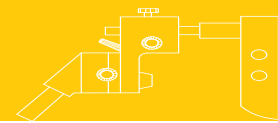
- Used for determining the Brinell hardness of various metals
- A "V" anvil is supplied for testing round work pieces
- Readings provided to a minimum resolution 0.5HR
- Mechanical models are designed with reversing switch
- Digital Models provide automatic operation reducing manual testing errors
- The digital model has a large LCD screen

STANDARD ACCESSORIES

- | | |
|--|-----------|
| 1. Tungsten carbide ball penetrator
Ø2.5mm, Ø5mm, Ø10mm | 1 pc each |
| 2. V-notch anvil | 1 pc |
| 3. Small flat anvil | 1 pc |
| 4. Large flat anvil | 1 pc |
| 5. Brinell standardized block | 2 pcs |
| 6. 20X readout microscope | 1 pc |
| 7. Instruction manual | 1 pc |

SPECIFICATIONS

Code No.	640-10-1	640-10-7	640-10-6
	Mechanical Models	Digital Models	Digital Models
Range	8-650HBW	8-650HBW	4-650HBW
Test Force	1838.8, 2451.8, 7355.3, 9807, 29421N (187.5, 250, 750, 1000, 3000kgf)	980.7, 1225.9, 1838.8, 2451.8, 4903.5, 7355.3, 9807, 14710.5, 29421N (100, 125, 187.5, 250, 500, 750, 1000, 1500, 1500, 3000kgf)	1838.8, 2451.8, 4903.5, 7355.3, 9807, 29421N (62.5, 100, 125, 187.5, 250, 500, 750, 1000, 1500, 1500, 3000kgf)
Max. Height of Test Piece	230mm	280mm	240mm
Depth of Throat	120mm	150mm	150mm
Power Supply	380V AC or 220V AC. 50 or 60 Hz	220V AC or 110V AC. 50 or 60 Hz	220V AC or 110V AC. 50 or 60 Hz
Dimension	700 x 268 x 842mm	570 x 330 x 910mm	570 x 330 x 910mm
Weight	Approx. 210kg	Approx. 290kg	Approx. 350kg



Hardness Test Blocks

640 Series



SPECIFICATIONS

Description	Range of Hardness	Dimension	Weight	Code No.
Brinell Standardized Block	200 ± 50 HBS 100 ± 25 HBS	100 X 80 X 16mm	1kg	640-80-0
Rockwell Standardized Block	80 - 88 HRA 85 - 95 HRB 20 - 30 HRC 35 - 55 HRC 60 - 70 HRC	60 X 40 X 10mm	0.19kg	640-81-0
Leeb Standardized Block	790 ± 40 HLD	Ø90 X 55mm	2.7kg	640-82-0

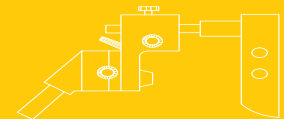
Hardness Tester Penetrators

640 Series



SPECIFICATIONS

Description	Specification	Code No.
Penetrator for Rockwell Hardness Tester	120° Diamond cone penetrator Ø1.588mm (1/16") steel ball penetrator	640-83-0
Penetrator for Brinell Hardness Tester	Ø2.5, 5, 10mm Tungsten carbide ball penetrator	640-84-0



Microscope XC-100L



642-01-0

FEATURES

- Sharp stereo erect image over a wide field of view. It is suitable for spot examination of machinery industry, paper making, print and textile, etc. The product features small size, light weight, nice design and easy operation.

STANDARD ACCESSORIES

- Eyepiece, Lamp, Instruction manual

Code No.		642-01-0
Graduation	0.01mm	
Magnification	100X	
Field of View	18mm	
Working Distance	6.93mm	
Eyepiece	WF10X, Graduation: 0.025 mm	
Objective	10X	
Illumination System	Pen Illumination	
Spare Part	Description	Code No.
Objective	4X	642-10-0

Stereo-Microscope ST 40



642-01-2

FEATURES

- Sharp stereo erect image over a wide field of view
- Binocular Tube. 45° inclined binocular head with locked-in eyepiece. The left ocular-tube with diopter adjustment ± 5 dp, The interpupillary distance is between 55-75mm
- Pillar style stand

STANDARD ACCESSORIES

- Eyepiece 1 pair, Eyepiece cover 1 pair, Lamp, Glass stage, Power wire, Instruction manual

Code No.		642-01-2
Magnification	20X / 40X	
Field of View	10mm / 5mm	
Working Distance	57mm	
Eyepiece	WF10X	
Objective	2X / 4X	
Illumination System	12V / 10W Double-Lighting	

Stereo-Microscope ST 45



642-01-3

FEATURES

- Sharp stereo erect image over a wide field of view
- Binocular Tube. 45° inclined binocular head with locked-in eyepiece. The left ocular-tube with diopter adjustment ± 5 dp, The interpupillary distance is between 55-75mm
- Arm curved style stand

STANDARD ACCESSORIES

- Eyepiece 1 pair, Eyepiece cover 1 pair, Lamp, Glass stage, Power wire, Instruction manual

Code No.		642-01-3
Magnification	20X / 40X	
Field of View	10mm / 5mm	
Working Distance	76mm	
Eyepiece	WF10X / 20mm	
Objective	2X / 4X	
Illumination System	12V / 10W Halogen and Incandescent	



Stereo-Microscope ST 50



642-01-4

FEATURES

- Sharp stereo erect image over a wide field of view
- Dovetail inserted style objective with locked-in device ensures easy replacement
- With adjustable arm, which provides a wider field of view higher; could provide a larger working distance

STANDARD ACCESSORIES

- Eyepiece 1 pair, Eyepiece cover 1 pair, lamp, power wire, Instruction manual

Code No.	642-01-4
Magnification	20X
Field of View	10mm
Working Distance	250mm
Eyepiece	WF10X / 20mm
Objective	2X
Illumination System	12V / 10W Incandescent

Accessory for ST 40/ST 45

Spare Part	Description	Code No.
Eyepiece	WF15X / 15mm	642-10-3
Eyepiece	WF20X / 10mm	642-10-4

Stereo-Microscope LAB 1



642-01-5

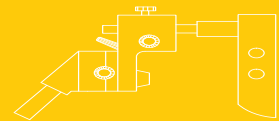
FEATURES

- Sharp stereo image over a wide field of view
- 90° rotational objective, Binocular Tube: 360°rotating and 45°inclined
- Pillar style stand

STANDARD ACCESSORIES

- Eyepiece 1 pair, Eyepiece cover 1 pair, Lamp, Glass stage, Power wire, Instruction manual

Code No.	642-01-5	
Magnification	20X / 40X	
Field of View	10mm / 5mm	
Working Distance	76mm	
Eyepiece	WF10X	
Objective	2X / 4X	
Illumination System	12V / 10W Adjustable Double-Lighting	
Spare Part	Description	Code No.
Eyepiece	WF15X / 15mm	642-10-3
Eyepiece	WF20X / 10mm	642-10-4



Stereo-Zoom Microscope LAB 2



642-01-6

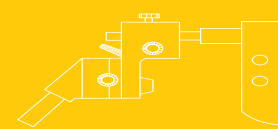
FEATURES

- Sharp stereo image over a wide field of view
- Binocular Tube: 360°rotating and 45°inclined
- Pillar style stand

STANDARD ACCESSORIES

- Eyepiece 1 pair, Eyepiece cover 1 pair, Lamp, Glass stage, Power wire, Instruction manual

Code No.		642-01-6
Magnification	10X-40X	
Field of View	23mm - 5.5mm	
Working Distance	82mm	
Eyepiece	SWF10X	
Objective	1X-4X	
Illumination System	12V / 10W Adjustable Double-Lighting	
Spare Part	Description	Code No.
Eyepiece	WF15X / 15mm	642-10-3
Eyepiece	WF20X / 10mm	642-10-4



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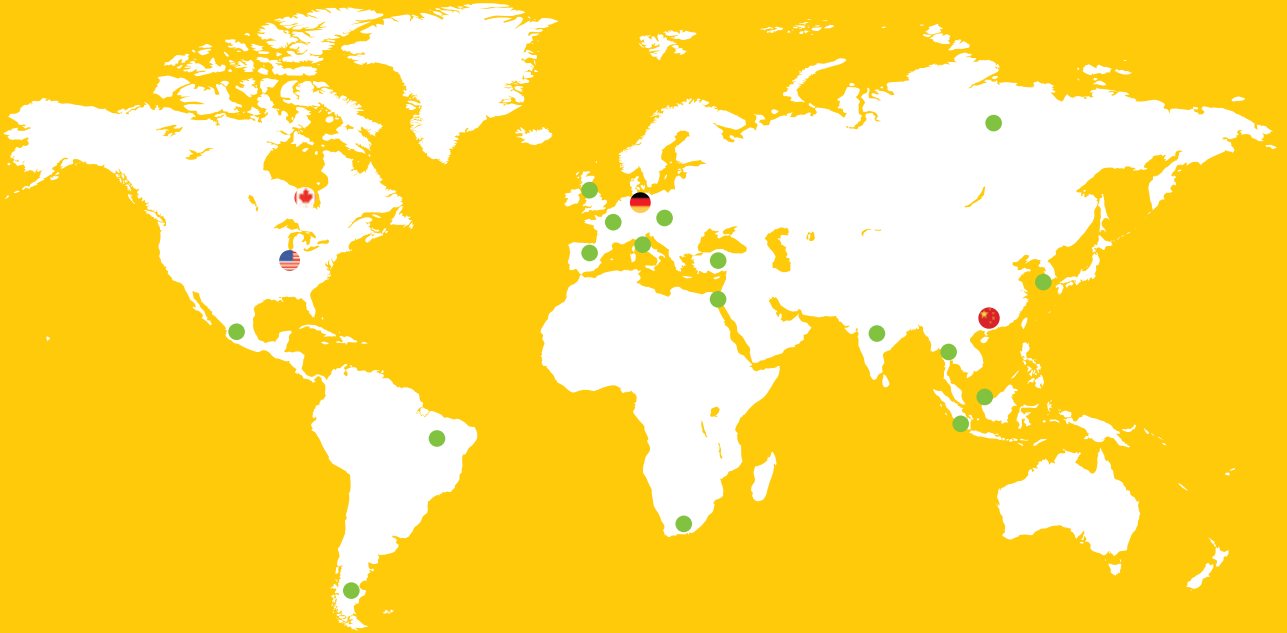
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