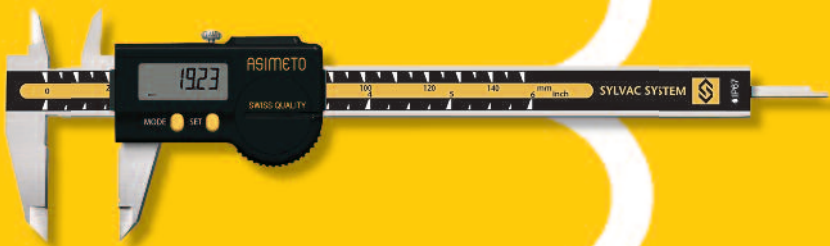


ASIMETO



ASIMETO
VALUE+

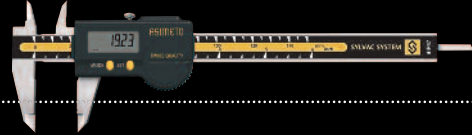
CATALOG NO. AS1301-I

INDEX

6 Micrometers



46 Calipers



76 Depth & Height Gauges



86 Indicator & Dial Gauges



128 Bore Gauges



134 Other Gauges



160 Gauges



182 Testers & Optical Instrument



Asimeto. Exactly what you need.

Everything we do is as exacting as the tools we make. Asimeto is the creator and manufacturer of high-precision measuring instruments - designed and registered exclusively in Germany. Asimeto tools are very competitively priced and are sold through the Asimeto distribution network. Our ultimate commitment to quality allows us to ensure strict production standards and reliable technical service for our global customers.

Asimeto is the first in the industry to deliver the **Value Plus** program to guarantee the accuracy and reliability of all products. This means every Asimeto tool is supplied with its own calibration certificate - so customers can be confident that the measuring accuracy conforms to the applicable national specification. All tools are calibrated by our world-class lab at no extra charge to the customer.

Asimeto has exactly what you need.

Introduction to Asimeto Calibration Laboratory

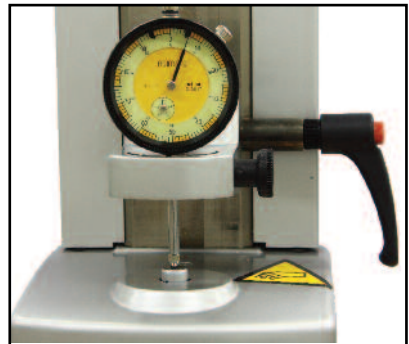
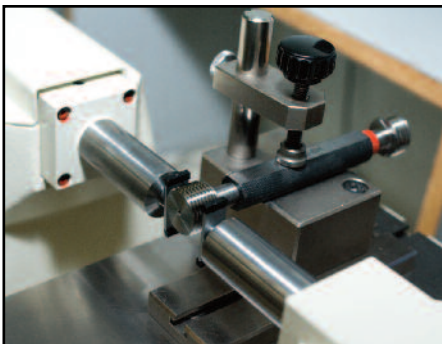
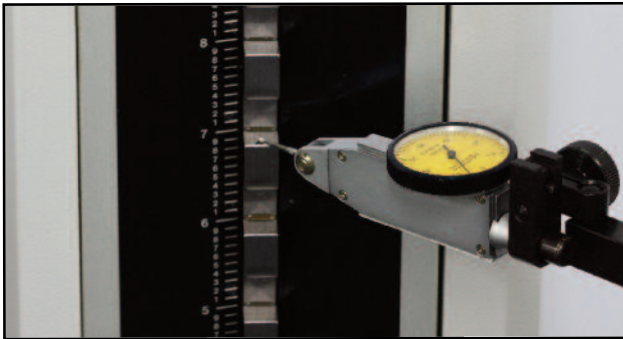
The quality and measuring accuracy of all Asimeto precision tools is guaranteed by the Asimeto Calibration Laboratory. All tools are inspected for conformance to the Asimeto design specifications and are then processed through the Asimeto calibration laboratory. Only the latest state of the art calibration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

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

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

ASIMETO

Calibration Lab Report



2

Product Description

Calibration Certificate

ASIMETO

VALUE+

Part Number 105-02-1 **Tool** DIGITAL OUTSIDE MICROMETER
Serial Number 101148840 **Range** 1" - 2"
Standard Name ASME B89 **Resolution** 0.00005"

Visual Inspection Passed
Function Inspection Passed

Outside Measurements

Reading	Nominal Value	Tolerance +/-	Deviation +/-	Disposition*
1	1.00000	0.0002"	0.00000	<input checked="" type="checkbox"/>
2	1.14900	0.0002"	0.00005	<input checked="" type="checkbox"/>
3	1.40000	0.0002"	0.00000	<input checked="" type="checkbox"/>
4	1.60000	0.0002"	0.00000	<input checked="" type="checkbox"/>
5	1.85000	0.0002"	-0.00005	<input checked="" type="checkbox"/>
6	2.00000	0.0002"	-0.00010	<input checked="" type="checkbox"/>

Disposition

3

Inspection Point & Result

1

	Inspection Serial Number	NIST Number	PTB Number
Gauge Block Set	530-40	07-54907-A	4939 PTB 05

Humidity 50 % +/- 15 %
Temperature 20 °C +/- 0.5 °C
Uncertainty 1.5 µm + 10⁻⁶ × L
Inspector Name Alex

* Check mark indicates within tolerance



Asimeto Inc. www.asimeto.com



Traceable No.

4

Data Collection Measuring Tools



ABS Digital Caliper



Standard Digital Caliper



Sylvac System



Digital Micrometer



Digital Indicator



Sylvac System

Control your manufacturing process using the Asimeto Statistical Software. It blends ease of use with flexibility and can be used with a multitude of data collection measuring tools.

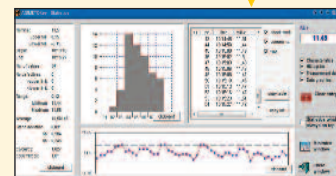
Asimeto SPC Software

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

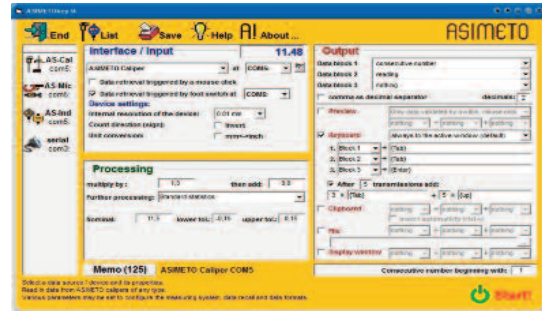
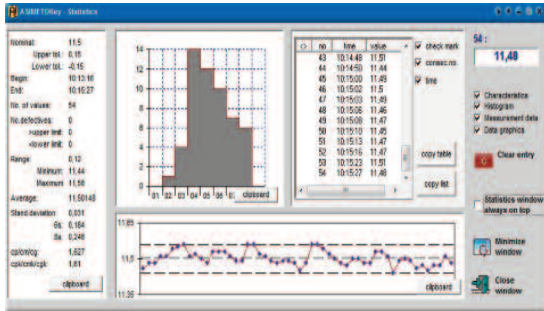


MeasureReport

	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	20.46
5	10.02	15.54	20.46
Average	10.02	15.53	20.45



SPC and Preprocessing Software



Asimeto Lite Software

- Connects to Asimeto Tools, Using one USB port

Asimeto Plus Software

- Connects to Asimeto, Mitutoyo, Mahr, Tesla & Sylvac
- Uses a four port USB hub allowing up to four measuring devices.
- Tools from different suppliers can be used in the same measuring sequence

FEATURES

- Individual item chart
- Xbar-R control chart
- Xbar-S control chart
- X-Rs control chart
- Histogram
- Run chart
- Export to the CSV file
- Statistics
- Maximum value
- Minimum value
- Average
- Standard deviation S, Rbar/d2
- Process capability Cp, Cpk, Pp, Ppk

SPECIFICATIONS

Description	Remark	Code No.
Asimeto Lite	1 Chanel	901-01-0
Asimeto Plus	4 Chanel	901-02-0

SPC Cable

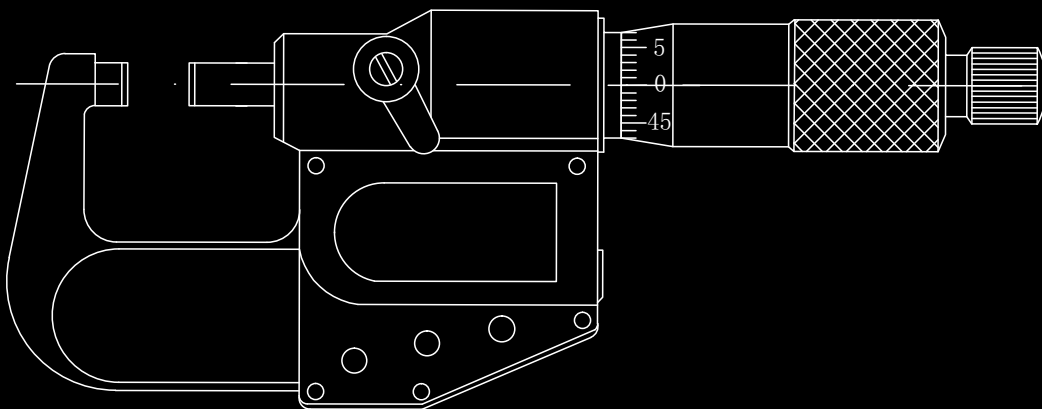
- Length: 2m

	Used For	Interface to PC	Data	Asimeto SPC Software	Code No.
	ABS Digital Caliper	USB	Virtual Com Port	Yes	900-01-1
		USB	Keyboard	No	900-01-0
	Digital Micrometer	USB	Virtual Com Port	Yes	900-10-1
		USB	Keyboard	No	900-10-0
	Digital Indicator	USB	Virtual Com Port	Yes	900-20-1
		USB	Keyboard	No	900-20-0
	Standard Digital Caliper	USB	Virtual Com Port	Yes	900-02-1
	Sylvac System	USB	Virtual Com Port	Yes	900-03-1

Remark: For more information visit our website at www.asimeto.com

Micrometers

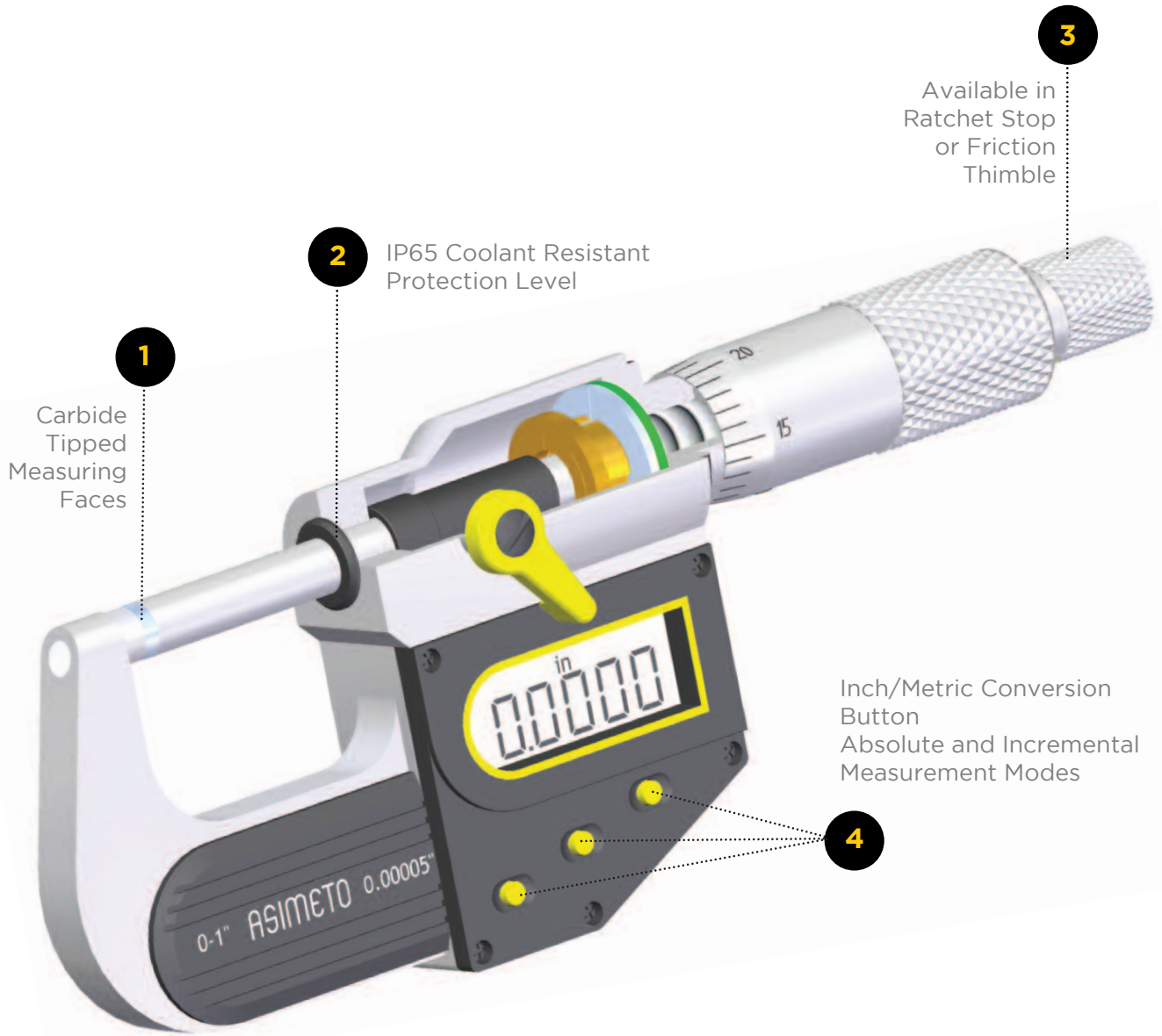
- 8 IP65 Digital Outside Micrometers
- 9 Economic Digital Outside Micrometers
- 10 Digit Counter Outside Micrometers
- 11 Outside Micrometers
- 13 Interchangeable Anvil Outside Micrometers
- 14 Three Point Internal Micrometers
- 18 Inside Micrometers
- 19 Dual Measurement Inside Micrometers
- 19 Tubular Inside Micrometers
- 20 Inside Micrometers - Interchangeable Rod Type
- 21 Quick-Setting Outside Micrometers, 1mm/Rev. Feed
- 21 Micrometer Stands
- 22 Blade Micrometers
- 23 Multi-Anvil Micrometers
- 24 Point Micrometers
- 25 Single Point Micrometers
- 26 Spline Micrometers
- 27 Gear Tooth Micrometers
- 28 Screw Thread Micrometers
- 29 Disc Micrometers
- 30 Jaw Type Micrometers
- 31 Universal Micrometers
- 32 V-Anvil Micrometers
- 33 Tube Micrometers
- 35 Deep Throat Micrometers
- 36 Limit Micrometers
- 36 Wire Micrometers
- 37 Sheet Metal Micrometers
- 37 Hub Micrometers
- 38 Groove Micrometers
- 39 Indicating Micrometers
- 39 Hot Sheet Micrometers
- 40 Snap Gauges
- 41 Can Seam Micrometers
- 41 Micrometer Heads
- 43 Depth Micrometers
- 44 Micrometer Standards
- 45 Micrometer Anvil Attachments
- 45 Thread Measuring Triangle Set

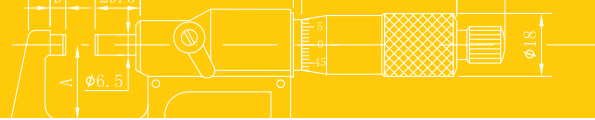




ASIMETO Digital Micrometers

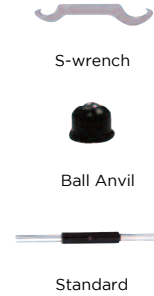
Features:





IP65 Digital Outside Micrometers

105 / 106 Series



FEATURES

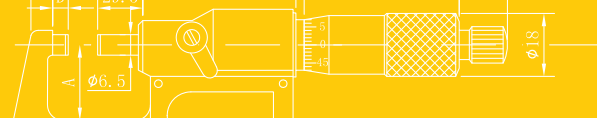
- Resolution:
 - Digital: .00005"/ 0.001mm
 - Scale: .0001"/ 0.01mm
- Flatness: 0.000012"/ 0.3µm
- Protection level IP65
- Ratchet Stop and Ratchet Thimble are optional
- Upon switch on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Inch/Metric conversion
- Absolute or incremental measuring modes
- Carbide tipped measuring faces
- 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		W/O Data Output		With Data Output		
Range	Accuracy	Range	Accuracy	Thimble	Inch Code No.	Metric Code No.	Inch Code No.	Metric Code No.
0-1"	±.0001"	0-25mm	±0.002mm	Ratchet	105-01-1	105-01-0	105-01-3	105-01-2
0-1"	±.0001"	0-25mm	±0.002mm	Ratchet Thimble	106-01-5	106-01-4	106-01-7	106-01-6
1-2"	±.0002"	25-50mm	±0.002mm	Ratchet	105-02-1	105-02-0	105-02-3	105-02-2
1-2"	±.0002"	25-50mm	±0.002mm	Ratchet Thimble	106-02-5	106-02-4	106-02-7	106-02-6
2-3"	±.0002"	50-75mm	±0.003mm	Ratchet	105-03-1	105-03-0	105-03-3	105-03-2
2-3"	±.0002"	50-75mm	±0.003mm	Ratchet Thimble	106-03-5	106-03-4	106-03-7	106-03-6
3-4"	±.0002"	75-100mm	±0.003mm	Ratchet	105-04-1	105-04-0	105-04-3	105-04-2
3-4"	±.0002"	75-100mm	±0.003mm	Ratchet Thimble	106-04-5	106-04-4	106-04-7	106-04-6
4-5"	±.0002"	100-125mm	±0.003mm	Ratchet	105-05-1	105-05-0	105-05-3	105-05-2
5-6"	±.0002"	125-150mm	±0.003mm	Ratchet	105-06-1	105-06-0	105-06-3	105-06-2
6-7"	±.0002"	150-175mm	±0.004mm	Ratchet	105-07-1	105-07-0	105-07-3	105-07-2
7-8"	±.0002"	175-200mm	±0.004mm	Ratchet	105-08-1	105-08-0	105-08-3	105-08-2
8-9"	±.0002"	200-225mm	±0.004mm	Ratchet	105-09-1	105-09-0	105-09-3	105-09-2
9-10"	±.0003"	225-250mm	±0.004mm	Ratchet	105-10-1	105-10-0	105-10-3	105-10-2
10-11"	±.0003"	250-275mm	±0.005mm	Ratchet	105-11-1	105-11-0	105-11-3	105-11-2
11-12"	±.0003"	275-300mm	±0.005mm	Ratchet	105-12-1	105-12-0	105-12-3	105-12-2
Sets								
Range	Quantity	Range	Quantity					
0-3"	3	0-75mm	3	Ratchet	105-63-7	105-63-6	105-63-9	105-63-8
0-4"	4	0-100mm	4	Ratchet	105-64-7	105-64-6	105-64-9	105-64-8
0-6"	6	0-150mm	6	Ratchet	105-66-7	105-66-6	105-66-9	105-66-8



Economic Digital Outside Micrometers

116 Series



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

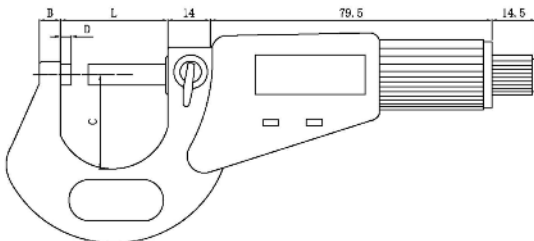
STANDARD ACCESSORIES

- 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"	±.00016"	0-25mm	±0.004mm	116-01-1	116-01-0		
1-2"	±.00016"	25-50mm	±0.004mm	116-02-1	116-02-0		
2-3"	±.0002"	50-75mm	±0.005mm	116-03-1	116-03-0		
3-4"	±.0002"	75-100mm	±0.005mm	116-04-1	116-04-0		
4-5"	±.00024"	100-125mm	±0.006mm	116-05-1	116-05-0		
5-6"	±.00024"	125-150mm	±0.006mm	116-06-1	116-06-0		
6-7"	±.00028"	150-175mm	±0.007mm	116-07-1	116-07-0		
7-8"	±.00028"	175-200mm	±0.007mm	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

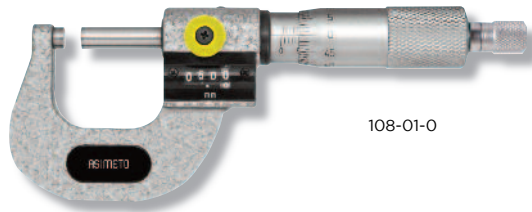


Range	C	L	B	D
Inch/Metric	mm	mm	mm	mm
0-1"/0-25mm	24	32	6	3
1-2"/25-50mm	32	57	8	3
2-3"/50-75mm	45	82	8	3
3-4"/75-100mm	57	107	10	3
4-5"/100-125mm	70	133	10	3
5-6"/125-150mm	82	158	10	3
6-7"/150-175mm	95	183	12	5.5
7-8"/175-200mm	107	209	12	5.5



Digit Counter Outside Micrometers

108 Series



108-01-0



S-wrench



Standard

FEATURES

- Resolution: Inch: .0001"; Metric: 0.001mm
- Counter readout: Inch: .001"; Metric: 0.01mm
- Flatness: 0.000024" / 0.6µm
- Mechanical counter for quick and error free reading
- Carbide tipped measuring faces
- Ratchet stop for normal models
- Ratchet thimble for µ-digit models
- Grey painted steel frame

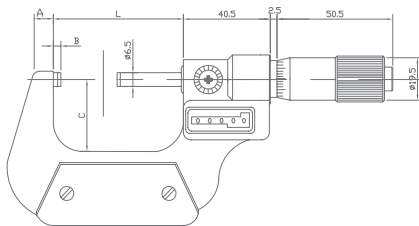
STANDARD ACCESSORIES

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

SPECIFICATIONS

Inch		Metric		Inch Code No.		Metric Code No.	
Range	Accuracy	Range	Accuracy	Code No.	Code No.	Code No.	Code No.
0-1"	±.0001"	0-25mm	±0.004mm	108-01-3		108-01-0	
1-2"	±.0002"	25-50mm	±0.004mm	108-02-3		108-02-0	
2-3"	±.0002"	50-75mm	±0.005mm	108-03-3		108-03-0	
3-4"	±.0002"	75-100mm	±0.005mm	108-04-3		108-04-0	
4-5"	±.0002"	100-120mm	±0.005mm	108-05-3		108-05-0	
5-6"	±.0002"	125-150mm	±0.005mm	108-06-3		108-06-0	
Sets							
Range	Quantity	Range	Quantity				
0-3"	3	0-75mm	3	108-63-7		108-63-8	
0-4"	4	0-100mm	4	108-64-7		108-64-8	
0-6"	6	0-150mm	6	108-66-7		108-66-8	

Dimension

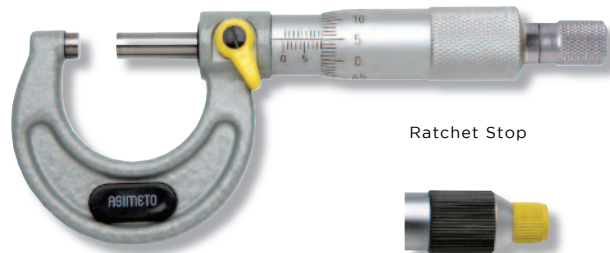


Range	A	B	C	L
Inch/Metric	mm	mm	mm	mm
0-1"/0-25mm	6	3	24	32
1-2"/25-50mm	8	3	32	57
2-3"/50-75mm	8	3	45	82
3-4"/75-100mm	10	3	57	107
4-5"/100-125mm	10	3	70	133
5-6"/125-150mm	10	3	82	158



Outside Micrometers

101 / 103 Series



101-01-0

Ratchet Stop



Ratchet Thimble



S-wrench



Standard

FEATURES

- Graduation:
Inch: 0.001" / .0001"
Metric: 0.01mm / 0.001mm
- Flatness: 0.000024" / 0.6µm
- Carbide tipped measuring faces
- Ratchet Stop and Ratchet Thimble are optional
- Grey painted steel frame

SPECIFICATIONS

STANDARD ACCESSORIES

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

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 Micrometers Set

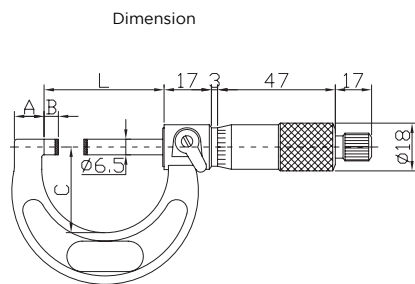
101 Series



SPECIFICATIONS

101-66-8

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



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

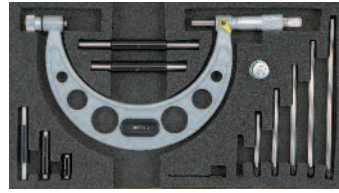


Interchangeable Anvil Outside Micrometers

111 / 115 Series



Digital models



111-06-1



S-wrench



Torque Wrench



Battery



Guiding rings



Standard

STANDARD ACCESSORIES

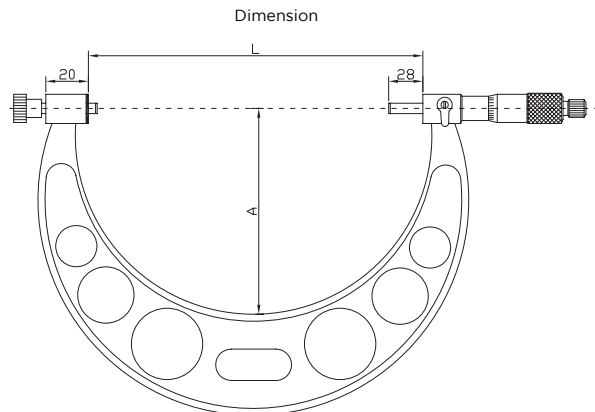
- S-wrench, Battery (Digital models), Standards, Interchangeable Anvils, Torque Wrench, 2 guiding rings
- Warranty card, Instruction manual, Calibration certificate

FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .001" / 0.01mm
 - Flatness: 0.0004" / 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

SPECIFICATIONS

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



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	Range	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



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 rings supplied
- Measuring contact points are designed to allow measurements near to the bottom of blind holes
- Models Up to and including 6mm or .24 inch have two measuring points and models 7mm or .275 inch and above are with three measuring points

STANDARD ACCESSORIES

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

SPECIFICATIONS

Digital models

Inch			Metric						Inch	Metric
Range	Accuracy	Setting Rings	Range	Accuracy	Setting Rings	L	A	Extension Rods	Code No.	Code No.
.08-.1"	±.00016"	.1"	2-2.5mm	±0.004mm	2.5mm	12.5mm	-	-	208-06-1	208-06-0
.1-.12"	±.00016"	.1"	2.5-3mm	±0.004mm	2.5mm	12.5mm	-	-	208-07-1	208-07-0
.12-.16"	±.00016"	.16"	3-4mm	±0.004mm	4mm	22.5mm	-	-	208-08-1	208-08-0
.16-.2"	±.00016"	.16"	4-5mm	±0.004mm	5mm	22.5mm	-	-	208-09-1	208-09-0
.2-.24"	±.00016"	.24"	5-6mm	±0.004mm	6mm	22.5mm	-	-	208-10-1	208-10-0
.24-.28"	±.00016"	.24"	-	-	-	22.5mm	0.5mm	-	208-10-5	-
.275-.35"	±.00016"	.275"	6-8mm	±0.004mm	6mm	53.5mm	0.5mm	100mm	208-11-1	208-11-0
.35-.425"	±.00016"	.35"	8-10mm	±0.004mm	8mm	53.5mm	0.5mm	100mm	208-12-1	208-12-0
.425-.5"	±.00016"	.5"	10-12mm	±0.004mm	10mm	53.5mm	0.5mm	100mm	208-13-1	208-13-0

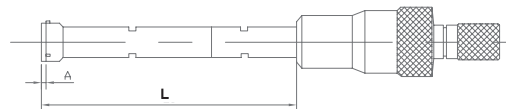
Mechanical models

Inch			Metric						Inch	Metric
Range	Accuracy	Setting Rings	Range	Accuracy	Setting Rings	L	A	Extension Rods	Code No.	Code No.
.08-.1"	±.00016"	.1"	2-2.5mm	±0.004mm	2.5mm	12.5mm	-	-	209-06-1	209-06-0
.1-.12"	±.00016"	.1"	2.5-3mm	±0.004mm	2.5mm	12.5mm	-	-	209-07-1	209-07-0
.12-.16"	±.00016"	.16"	3-4mm	±0.004mm	4mm	22.5mm	-	-	209-08-1	209-08-0
.16-.2"	±.00016"	.16"	4-5mm	±0.004mm	5mm	22.5mm	-	-	209-09-1	209-09-0
.2-.24"	±.00016"	.24"	5-6mm	±0.004mm	6mm	22.5mm	-	-	209-10-1	209-10-0
.24-.28"	±.00016"	.24"	-	-	-	22.5mm	0.5mm	-	209-10-5	-
.275-.35"	±.00016"	.275"	6-8mm	±0.004mm	6mm	53.5mm	0.5mm	100mm	209-11-1	209-11-0
.35-.425"	±.00016"	.35"	8-10mm	±0.004mm	8mm	53.5mm	0.5mm	100mm	209-12-1	209-12-0
.425-.5"	±.00016"	.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



FEATURES

- Resolution:
Digital models: .00005" / 0.001mm
Mechanical models: .0002" / 0.005mm
- Protection level IP65
- Ratchet stop
- Setting rings for origin point setting
- 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 Rods (over 6-8mm range),
Wrench, Screwdriver, Setting Rings
- Warranty card, Instruction manual,
Calibration certificate

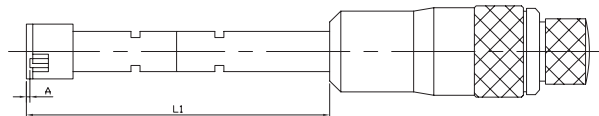
SPECIFICATIONS

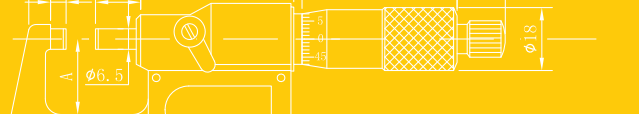
Digital models

Inch			Metric						Inch		Metric	
Range	Accuracy	Setting Rings	Range	Accuracy	Setting Rings	L1	A	Extension Rods	Code No.	Code No.	Code No.	Code No.
.5-.65"	±.00016"	.65"	12-16mm	±0.004mm	16mm	80mm	0.5mm	150mm	208-24-1	208-24-0		
.65-.8"	±.00016"	.65"	16-20mm	±0.004mm	16mm	80mm	0.5mm	150mm	208-25-1	208-25-0		
.8-1"	±.00016"	1"	20-25mm	±0.004mm	25mm	90mm	0.5mm	150mm	208-26-1	208-26-0		
1-1.2"	±.00016"	1"	25-30mm	±0.004mm	25mm	90mm	0.5mm	150mm	208-27-1	208-27-0		
1.2-1.6"	±.00016"	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

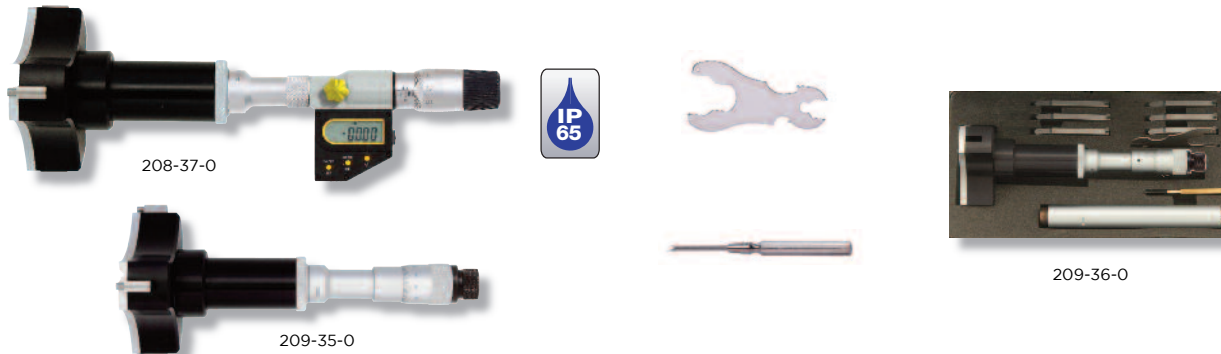
Inch			Metric						Inch		Metric	
Range	Accuracy	Setting Rings	Range	Accuracy	Setting Rings	L1	A	Extension Rods	Code No.	Code No.	Code No.	Code No.
.5-.65"	±.00016"	.65"	12-16mm	±0.004mm	16mm	80mm	0.5mm	150mm	209-24-1	209-24-0		
.65-.8"	±.00016"	.65"	16-20mm	±0.004mm	16mm	80mm	0.5mm	150mm	209-25-1	209-25-0		
.8-1"	±.00016"	1"	20-25mm	±0.004mm	25mm	90mm	0.5mm	150mm	209-26-1	209-26-0		
1-1.2"	±.00016"	1"	25-30mm	±0.004mm	25mm	90mm	0.5mm	150mm	209-27-1	209-27-0		
1.2-1.6"	±.00016"	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	±0.005mm	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



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 rings are not included with the set but are optional

STANDARD ACCESSORIES

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

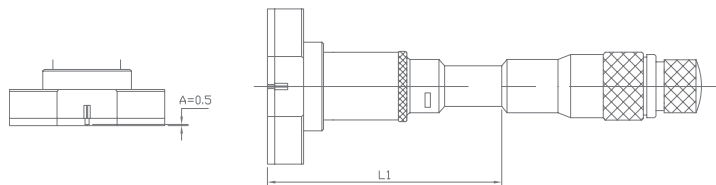
SPECIFICATIONS

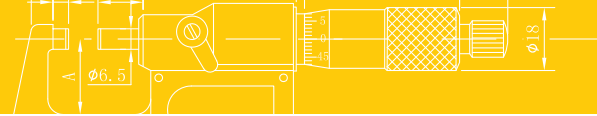
Digital models

Inch			Metric					Inch		Metric	
Range	Accuracy	Setting Rings	Range	Accuracy	Setting Rings	L1	Extension Rods	Code No.	Code No.		
4-5"	±.0002"	4.5"	100-125mm	±0.005mm	112.5mm	145mm	150mm	208-34-1	208-34-0		
5-6"	±.0002"	5.5"	125-150mm	±0.005mm	137.5mm	145mm	150mm	208-35-1	208-35-0		
6-7"	±.0002"	6.5"	150-175mm	±0.005mm	162.5mm	145mm	150mm	208-36-1	208-36-0		
7-8"	±.0002"	7.5"	175-200mm	±0.005mm	187.5mm	145mm	150mm	208-37-1	208-37-0		
8-9"	±.00028"	8.5"	200-225mm	±0.007mm	212.5mm	145mm	150mm	208-38-1	208-38-0		
9-10"	±.00028"	9.5"	225-250mm	±0.007mm	237.5mm	145mm	150mm	208-39-1	208-39-0		
10-11"	±.00028"	10.5"	250-275mm	±0.007mm	262.5mm	145mm	150mm	208-40-1	208-40-0		
11-12"	±.00028"	11.5"	275-300mm	±0.007mm	287.5mm	145mm	150mm	208-41-1	208-41-0		

Mechanical models

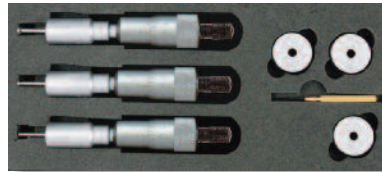
Inch			Metric					Inch		Metric	
Range	Accuracy	Setting Rings	Range	Accuracy	Setting Rings	L1	Extension Rods	Code No.	Code No.		
4-5"	±.0002"	4.5"	100-125mm	±0.005mm	112.5mm	145mm	150mm	209-34-1	209-34-0		
5-6"	±.0002"	5.5"	125-150mm	±0.005mm	137.5mm	145mm	150mm	209-35-1	209-35-0		
6-7"	±.0002"	6.5"	150-175mm	±0.005mm	162.5mm	145mm	150mm	209-36-1	209-36-0		
7-8"	±.0002"	7.5"	175-200mm	±0.005mm	187.5mm	145mm	150mm	209-37-1	209-37-0		
8-9"	±.00028"	8.5"	200-225mm	±0.007mm	212.5mm	145mm	150mm	209-38-1	209-38-0		
9-10"	±.00028"	9.5"	225-250mm	±0.007mm	237.5mm	145mm	150mm	209-39-1	209-39-0		
10-11"	±.00028"	10.5"	250-275mm	±0.007mm	262.5mm	145mm	150mm	209-40-1	209-40-0		
11-12"	±.00028"	11.5"	275-300mm	±0.007mm	287.5mm	145mm	150mm	209-41-1	209-41-0		





Two and Three Point Internal Micrometers Sets

208 / 209 Series



208-62-8

SPECIFICATIONS

Digital models

Range	Individual range	Setting rings	Extension rods	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 rings	Extension rods	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



Inside Micrometers

203 / 207 Series

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 rings
- Ratchet stop
- Digital System same as 105- Series

STANDARD ACCESSORIES

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



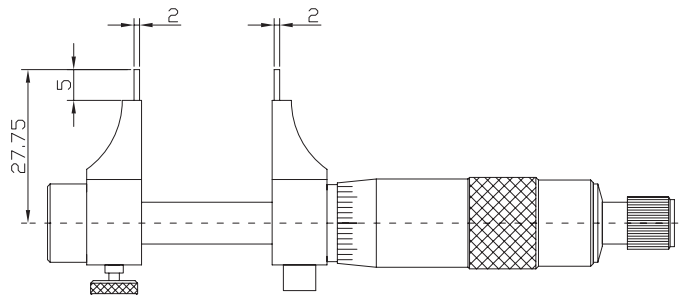
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203-02-0

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	±0.007mm	207-01-1	207-01-0
1-2"	.00005"	±.0002"	25-50mm	0.001mm	±0.008mm	207-02-1	207-02-0
2-3"	.00005"	±.0002"	50-75mm	0.001mm	±0.009mm	207-03-1	207-03-0
3-4"	.00005"	±.0002"	75-100mm	0.001mm	±0.010mm	207-04-1	207-04-0
4-5"	.00005"	±.0002"	100-125mm	0.001mm	±0.010mm	207-05-1	207-05-0
5-6"	.00005"	±.0002"	125-150mm	0.001mm	±0.010mm	207-06-1	207-06-0
6-7"	.00005"	±.0002"	150-175mm	0.001mm	±0.010mm	207-07-1	207-07-0
7-8"	.00005"	±.0002"	175-200mm	0.001mm	±0.010mm	207-08-1	207-08-0
Mechanical models							
.2-1.2"	.001"	±.0001"	5-30mm	0.01mm	±0.007mm	203-01-1	203-01-0
1.0-2.0"	.001"	±.0002"	25-50mm	0.01mm	±0.008mm	203-02-1	203-02-0
2.0-3.0"	.001"	±.0002"	50-75mm	0.01mm	±0.009mm	203-03-1	203-03-0
3.0-4.0"	.001"	±.0002"	75-100mm	0.01mm	±0.010mm	203-04-1	203-04-0
4.0-5.0"	.001"	±.0002"	100-125mm	0.01mm	±0.010mm	203-05-1	203-05-0
5.0-6.0"	.001"	±.0002"	125-150mm	0.01mm	±0.010mm	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



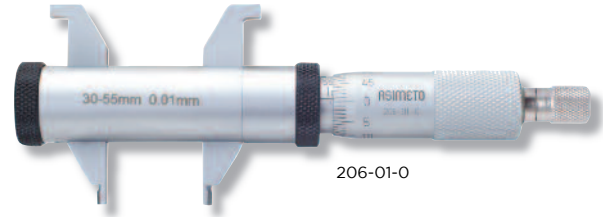


Dual Measurement Inside Micrometers

206 Series

FEATURES

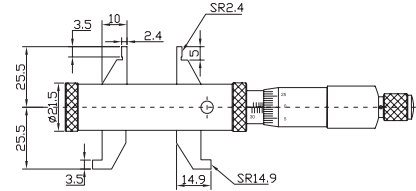
- For all kinds of inside measurement
- Large measuring range with two sides of calipers
- Bi-directional graduation for easy reading in both directions
- Supplied with setting rings (Ø1.2"/Ø 30mm dia.)



206-01-0

STANDARD ACCESSORIES

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



SPECIFICATIONS

Upper Range	Lower 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	±0.008mm	206-01-0

Tubular Inside Micrometers

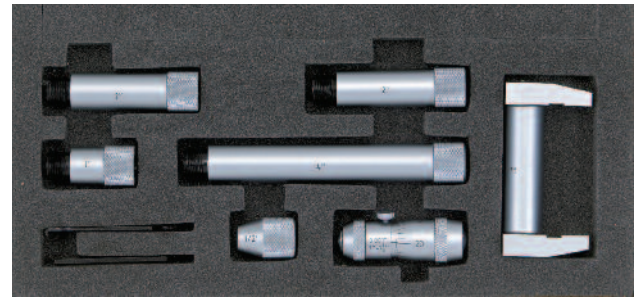
240 Series

SPECIFICATIONS

- Graduation: .001" / 0.01mm
- 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 rods provides a wide measuring range
- Carbide measuring faces
- Diameter of extension rods:Ø15.5mm
- Accuracy: Metric (3+n+L/50)µm, Inch [0.00005 x (3+n+L/2)]" (n= number of rod, L=maximum measuring length (mm) [Inch])

STANDARD ACCESSORIES

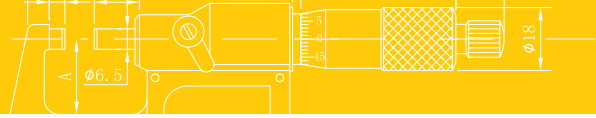
- S-wrench, Standard caliper gauge, Extension rods, Micrometer Head
- Warranty card, Instruction manual, Calibration certificate



240-01-1

SPECIFICATIONS

Range	Extension Rods	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
50-100mm	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.
- 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

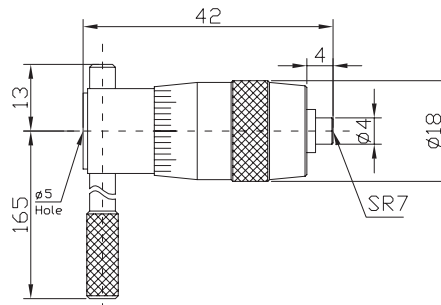
- Micrometer Head, Extension Rods, S-wrench
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Range	Head Travel	Graduation	Spacing Collar	Diameter of Rods	Note	Code No.
Inch						
1-2"	.25"	.001"	.250"	Φ.248"	1" Mic head & 2 Rods	242-02-1
2-8"	.50"	.001"	.500"	Φ.248"	2" Mic head & 6 Rods	242-08-1
2-12"	.50"	.001"	.500"	Φ.248"	2" Mic head & 10 Rods	242-12-1
8-20"	1.00"	.001"	1", 2"	Φ.355"	8" Mic head & 3 Rods	242-20-1
8-40"	1.00"	.001"	1", 2"	Φ.355"	8" Mic head & 8 Rods	242-40-1
Metric						
25-50mm	7.0mm	0.01mm	6.0mm	Φ6.3mm	25mm Mic head & 2 Rods	242-02-0
50-200mm	13mm	0.01mm	12.0mm	Φ6.3mm	50mm Mic head & 6 Rods	242-08-0
50-300mm	13mm	0.01mm	12.0mm	Φ6.3mm	50mm Mic head & 10 Rods	242-12-0
200-500mm	25mm	0.01mm	25mm, 50mm	Φ9mm	200mm Mic head & 3 Rods	242-20-0
200-1000mm	25mm	0.01mm	25mm, 50mm	Φ9mm	200mm Mic head & 8 Rods	242-40-0

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

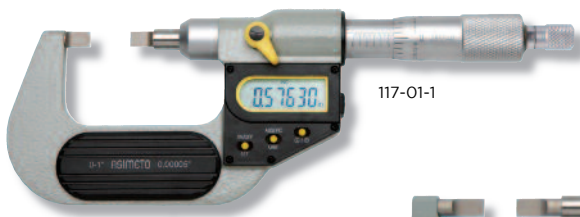
Accuracy: Metric $(6+L/50)\mu\text{m}$,
 Inch $[0.0003+0.00005(L/2)]''$
 L=maximum measuring length





Blade Micrometers

112 / 117 Series



117-01-1



S-wrench



Battery



Standard



112-01-0

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

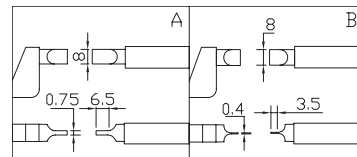
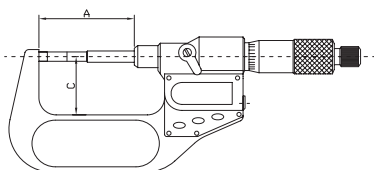
Digital models

Inch		Metric			Inch		Metric	
Range	Accuracy	Range	Accuracy	Anvil Type	Code No.	Code No.	Code No.	Code No.
0-1"	±0.001"	0-25mm	±0.003mm	A	117-01-1	117-01-0		
1-2"	±0.002"	25-50mm	±0.003mm	A	117-02-1	117-02-0		
2-3"	±0.002"	50-75mm	±0.003mm	A	117-03-1	117-03-0		
3-4"	±0.002"	75-100mm	±0.004mm	A	117-04-1	117-04-0		
0-1"	±0.001"	0-25mm	±0.003mm	B	117-01-3	117-01-2		
1-2"	±0.002"	25-50mm	±0.003mm	B	117-02-3	117-02-2		

Mechanical models

Inch		Metric			Inch		Metric	
Range	Accuracy	Range	Accuracy	Anvil Type	Code No.	Code No.	Code No.	Code No.
0-1"	±0.001"	0-25mm	±0.004mm	A	112-01-1	112-01-0		
1-2"	±0.002"	25-50mm	±0.004mm	A	112-02-1	112-02-0		
2-3"	±0.002"	50-75mm	±0.005mm	A	112-03-1	112-03-0		
3-4"	±0.002"	75-100mm	±0.005mm	A	112-04-1	112-04-0		
0-1"	±0.001"	0-25mm	±0.004mm	B	112-01-3	112-01-2		
1-2"	±0.002"	25-50mm	±0.004mm	B	112-02-3	112-02-2		

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

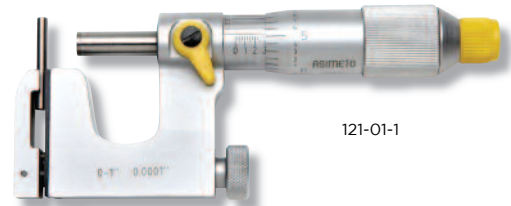


Multi-Anvil Micrometers

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



S-wrench



wrench



Battery



Standard



Anvils

FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .001" / 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

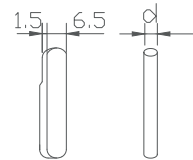
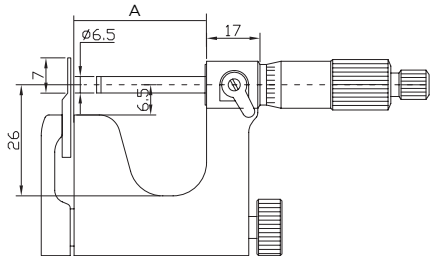
Digital models

Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Code No.	Code No.	Code No.	Code No.
0-1"	±0.0001"	0-25mm	±0.002mm	125-01-1	125-01-0	125-01-1	125-01-0
1-2"	±0.0002"	25-50mm	±0.002mm	125-02-1	125-02-0	125-02-1	125-02-0

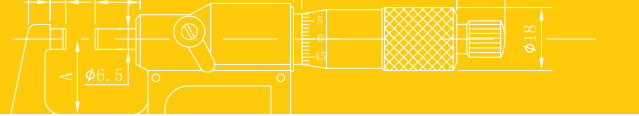
Mechanical models

Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Code No.	Code No.	Code No.	Code No.
0-1"	±0.0001"	0-25	±0.004	121-01-1	121-01-0	121-01-1	121-01-0
1-2"	±0.0002"	25-50	±0.004	121-02-1	121-02-0	121-02-1	121-02-0

Dimension



Range	A	d
0-25mm	28.5mm	Φ3mm
25-50mm	53.5mm	Φ5mm

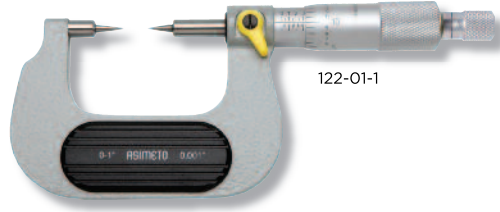


Point Micrometers

122 / 126 Series



126-02-1



122-01-1



S-wrench



Battery



Standard

STANDARD ACCESSORIES

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

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

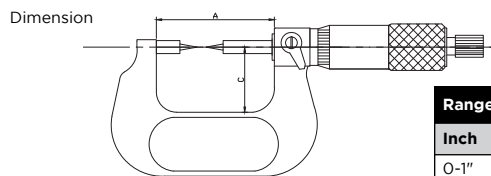
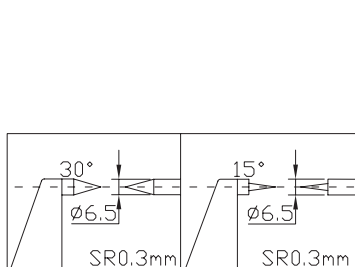
SPECIFICATIONS

Digital models

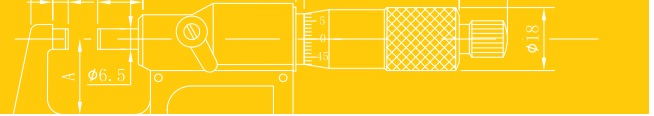
Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Anvil Type	Code No.	Code No.	Code No.
0-1"	±.0001"	0-25mm	±0.002mm	15°	126-01-1	126-01-0	126-01-0
1-2"	±.0002"	25-50mm	±0.002mm	15°	126-02-1	126-02-0	126-02-0
2-3"	±.0002"	50-75mm	±0.003mm	15°	126-03-1	126-03-0	126-03-0
3-4"	±.0002"	75-100mm	±0.003mm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



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



S-wrench



Battery



Standard



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

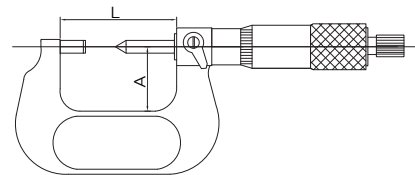
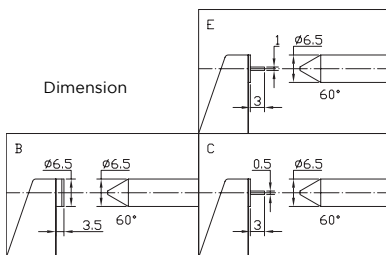
SPECIFICATIONS

Digital models

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

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	B	131-01-1	131-01-0	131-01-0
1-2"	±.0002"	25-50mm	±0.004mm	B	131-02-1	131-02-0	131-02-0
2-3"	±.0002"	50-75mm	±0.005mm	B	131-03-1	131-03-0	131-03-0
3-4"	±.0002"	75-100mm	±0.005mm	B	131-04-1	131-04-0	131-04-0
0-1"	±.0001"	0-25mm	±0.004mm	C	131-01-3	131-01-2	131-01-2
0-1"	±.0001"	0-25mm	±0.004mm	E	131-01-5	131-01-4	131-01-4



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

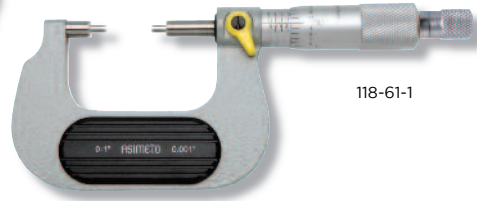


Spline Micrometers

118 Series



118-02-1



118-61-1



S-wrench



Battery



Standard

STANDARD ACCESSORIES

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

FEATURES

- Resolution:
 - Digital: .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

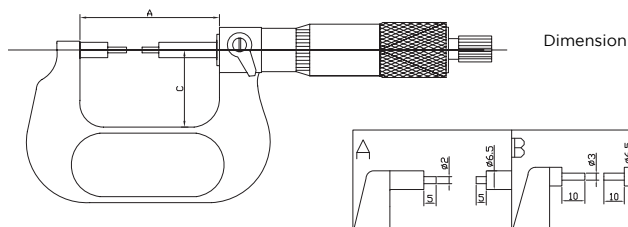
SPECIFICATIONS

Digital models

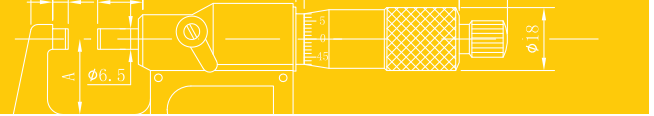
Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Anvil Type	Code No.	Code No.	
0-1"	±.0001"	0-25mm	±0.002mm	A (Φ2*5)	118-01-1	118-01-0	
1-2"	±.0002"	25-50mm	±0.002mm	A (Φ2*5)	118-02-1	118-02-0	
2-3"	±.0002"	50-75mm	±0.003mm	A (Φ2*5)	118-03-1	118-03-0	
3-4"	±.0002"	75-100mm	±0.003mm	A (Φ2*5)	118-04-1	118-04-0	
0-1"	±.0001"	0-25mm	±0.002mm	B (Φ3*10)	118-01-3	118-01-2	
1-2"	±.0002"	25-50mm	±0.002mm	B (Φ3*10)	118-02-3	118-02-2	
2-3"	±.0002"	50-75mm	±0.003mm	B (Φ3*10)	118-03-3	118-03-2	
3-4"	±.0002"	75-100mm	±0.003mm	B (Φ3*10)	118-04-3	118-04-2	

Mechanical models

Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Anvil Type	Code No.	Code No.	
0-1"	±.0001"	0-25mm	±0.004mm	A (Φ2*5)	118-61-1	118-61-0	
1-2"	±.0002"	25-50mm	±0.004mm	A (Φ2*5)	118-62-1	118-62-0	
2-3"	±.0002"	50-75mm	±0.005mm	A (Φ2*5)	118-63-1	118-63-0	
3-4"	±.0002"	75-100mm	±0.005mm	A (Φ2*5)	118-64-1	118-64-0	
0-1"	±.0001"	0-25mm	±0.004mm	B (Φ3*10)	118-61-3	118-61-2	
1-2"	±.0002"	25-50mm	±0.004mm	B (Φ3*10)	118-62-3	118-62-2	
2-3"	±.0002"	50-75mm	±0.005mm	B (Φ3*10)	118-63-3	118-63-2	
3-4"	±.0002"	75-100mm	±0.005mm	B (Φ3*10)	118-64-3	118-64-2	

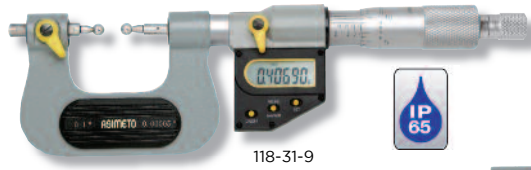


Range	Range	A	C
Inch	Metric	mm	mm
0-1"	0-25mm	57	32
1-2"	25-50mm	82	44.5
2-3"	50-75mm	107	57
3-4"	75-100mm	132.6	69.5



Gear Tooth Micrometers

118 Series



118-31-9



118-71-9



S-wrench



Battery



Standard

FEATURES

- Resolution:
Digital reading: .00005" / 0.001mm
Scale on digital models: .0001" / 0.01mm
Scale on mechanical models: .001" / 0.01mm
- Ratchet stop
- Grey painted steel frame

- 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

STANDARD ACCESSORIES

- S-wrench, battery (Digital models), Anvils 10 pairs (Set), Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate
- 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

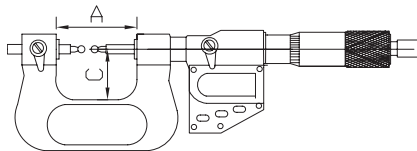
Digital models

Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Code No.	Set Code No.	Code No.	Set Code No.
0-1"	±.0001"	0-25mm	±0.004mm	118-31-1	118-31-9	118-31-0	118-31-8
1-2"	±.0002"	25-50mm	±0.004mm	118-32-1	118-32-9	118-32-0	118-32-8
2-3"	±.0002"	50-75mm	±0.005mm	118-33-1	118-33-9	118-33-0	118-33-8
3-4"	±.0002"	75-100mm	±0.005mm	118-34-1	118-34-9	118-34-0	118-34-8
4-5"	±.0002"	100-125mm	±0.006mm	118-35-1	118-35-9	118-35-0	118-35-8
5-6"	±.0002"	125-150mm	±0.006mm	118-36-1	118-36-9	118-36-0	118-36-8
6-7"	±.0002"	150-175mm	±0.007mm	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

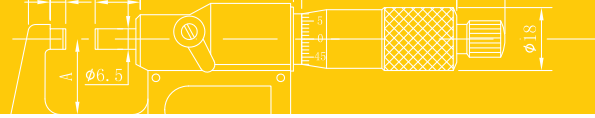
Dimension



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



Screw Thread Micrometers

136 / 137 / 132 / 133 Series



136-01-1



S-wrench



Battery



Standard



133-01-1

FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .001" / 0.01mm
- Grey painted steel frame
- For measuring various screw threads
- Non-rotating spindle
- Ratchet stop for digital models
- Ratchet thimble for Mechanical models
- Set includes 5 pairs Interchangeable anvils

STANDARD ACCESSORIES

- S-wrench, Battery (Digital models), Anvils 5 pairs (Set), Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate
- 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	Code No.	Set Code No.	Code No.	Set Code No.
0-1"	±.0001"	0-25mm	±0.004mm	136-01-1	137-01-1	136-01-0	137-01-0
1-2"	±.0002"	25-50mm	±0.004mm	136-02-1	137-02-1	136-02-0	137-02-0
2-3"	±.0002"	50-75mm	±0.005mm	136-03-1	137-03-1	136-03-0	137-03-0
3-4"	±.0002"	75-100mm	±0.005mm	136-04-1	137-04-1	136-04-0	137-04-0
4-5"	±.0002"	100-125mm	±0.006mm	136-05-1	137-05-1	136-05-0	137-05-0
5-6"	±.0002"	125-150mm	±0.006mm	136-06-1	137-06-1	136-06-0	137-06-0

Mechanical models

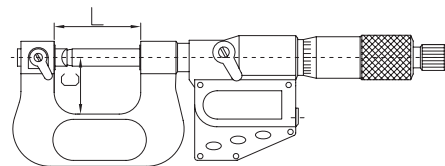
Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Code No.	Set Code No.	Code No.	Set Code No.
0-1"	±.0001"	0-25mm	±0.004mm	132-01-1	133-01-1	132-01-0	133-01-0
1-2"	±.0002"	25-50mm	±0.004mm	132-02-1	133-02-1	132-02-0	133-02-0
2-3"	±.0002"	50-75mm	±0.005mm	132-03-1	133-03-1	132-03-0	133-03-0
3-4"	±.0002"	75-100mm	±0.005mm	132-04-1	133-04-1	132-04-0	133-04-0
4-5"	±.0002"	100-125mm	±0.006mm	132-05-1	133-05-1	132-05-0	133-05-0
5-6"	±.0002"	125-150mm	±0.006mm	132-06-1	133-06-1	132-06-0	133-06-0

Anvils (For screw 60° ISO)



130-60-0

Dimension



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

Range	L	C
Inch/Metric	mm	mm
0-1"/0-25mm	42	26
1-2"/25-50mm	67	38
2-3"/50-75mm	92	50
3-4"/75-100mm	117.6	62
4-5"/100-125mm	143	70
5-6"/125-150mm	168.2	82

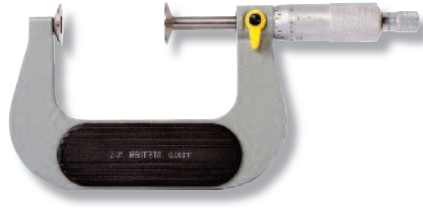


Disc Micrometers

141 / 145 Series



145-02-1



141-03-1



S-wrench



Battery



Standard

STANDARD ACCESSORIES

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

FEATURES

Resolution:

Digital: .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 for digital models
- 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

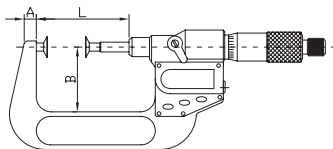
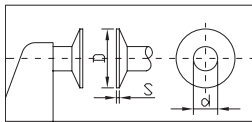
Digital models

Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Code No.	Code No.	Code No.	Code No.
0-1"	±0.001"	0-25mm	±0.005mm	145-01-1	145-01-0		
1-2"	±0.002"	25-50mm	±0.005mm	145-02-1	145-02-0		
2-3"	±0.002"	50-75mm	±0.006mm	145-03-1	145-03-0		
3-4"	±0.002"	75-100mm	±0.006mm	145-04-1	145-04-0		
4-5"	±0.002"	100-125mm	±0.007mm	145-05-1	145-05-0		
5-6"	±0.002"	125-150mm	±0.007mm	145-06-1	145-06-0		
6-7"	±0.002"	150-175mm	±0.008mm	145-07-1	145-07-0		
7-8"	±0.002"	175-200mm	±0.008mm	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"	±0.001"	0-25mm	±0.005mm	141-01-1	141-01-3	141-01-0	141-01-2
1-2"	±0.002"	25-50mm	±0.005mm	141-02-1	141-02-3	141-02-0	141-02-2
2-3"	±0.002"	50-75mm	±0.006mm	141-03-1	141-03-3	141-03-0	141-03-2
3-4"	±0.002"	75-100mm	±0.006mm	141-04-1	141-04-3	141-04-0	141-04-2
4-5"	±0.002"	100-125mm	±0.007mm	141-05-1	141-05-3	141-05-0	141-05-2
5-6"	±0.002"	125-150mm	±0.007mm	141-06-1	141-06-3	141-06-0	141-06-2
6-7"	±0.002"	150-175mm	±0.008mm	141-07-1	141-07-3	141-07-0	141-07-2
7-8"	±0.002"	175-200mm	±0.008mm	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



Battery



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 step 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

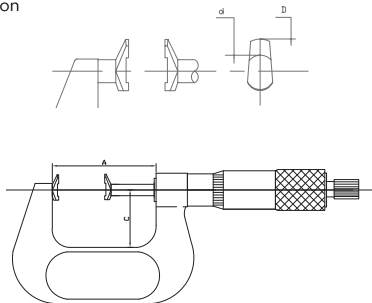
Digital models

Inch	Metric	Inch	Metric
Range	Accuracy	Range	Accuracy
0-1"	±.0001"	0-25mm	±0.004mm
1-2"	±.0002"	25-50mm	±0.004mm
2-3"	±.0002"	50-75mm	±0.005mm
3-4"	±.0002"	75-100mm	±0.005mm
4-5"	±.0002"	100-125mm	±0.006mm
5-6"	±.0002"	125-150mm	±0.006mm
6-7"	±.0002"	150-175mm	±0.007mm
7-8"	±.0002"	175-200mm	±0.007mm

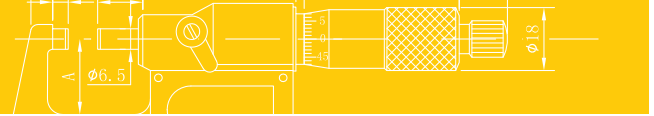
Mechanical models

Inch	Metric	Inch	Metric
Range	Accuracy	Range	Accuracy
0-1"	±.0001"	0-25mm	±0.004mm
1-2"	±.0002"	25-50mm	±0.004mm
2-3"	±.0002"	50-75mm	±0.005mm
3-4"	±.0002"	75-100mm	±0.005mm
4-5"	±.0002"	100-125mm	±0.006mm
5-6"	±.0002"	125-150mm	±0.006mm
6-7"	±.0003"	150-175mm	±0.007mm
7-8"	±.0003"	175-200mm	±0.007mm

Dimension



Range	A	C	D	d
Inch/Metric	mm	mm	mm	mm
0-1"/0-25mm	34.4	24	R10	Φ8
1-2"/25-50mm	59.4	32	R10	Φ8
2-3"/50-75mm	84.8	44.5	R10	Φ8
3-4"/75-100mm	110.2	57	R10	Φ8
4-5"/100-125mm	137.6	69.5	R15	Φ12
5-6"/125-150mm	163	82	R15	Φ12
6-7"/150-175mm	188.4	94.5	R15	Φ12
7-8"/175-200mm	213.8	107	R15	Φ12



Universal Micrometers

142 / 146 Series



146-01-0



S-wrench



Battery



Standard



Anvils



142-01-1

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
- 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

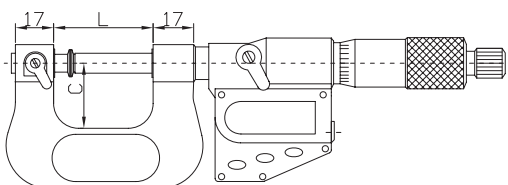
Digital models

Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Code No.	Code No.	Code No.	Code No.
0-1"	±.0001"	0-25mm	±0.004mm	146-01-1	146-01-0	146-01-1	146-01-0
1-2"	±.0002"	25-50mm	±0.004mm	146-02-1	146-02-0	146-02-1	146-02-0
2-3"	±.0002"	50-75mm	±0.005mm	146-03-1	146-03-0	146-03-1	146-03-0
3-4"	±.0002"	75-100mm	±0.005mm	146-04-1	146-04-0	146-04-1	146-04-0
4-5"	±.0002"	100-125mm	±0.006mm	146-05-1	146-05-0	146-05-1	146-05-0
5-6"	±.0002"	125-150mm	±0.006mm	146-06-1	146-06-0	146-06-1	146-06-0
6-7"	±.0002"	150-175mm	±0.007mm	146-07-1	146-07-0	146-07-1	146-07-0
7-8"	±.0002"	175-200mm	±0.007mm	146-08-1	146-08-0	146-08-1	146-08-0

Mechanical models

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

Dimension



Range	C		L	
	Inch/Metric	mm	Inch/Metric	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



Battery



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

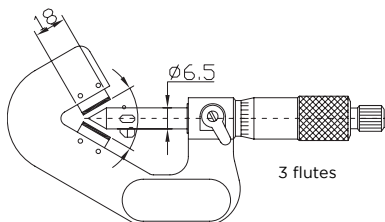
Digital models

Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Code No.	Code No.		
3 flutes							
.04-.6"	±0.001"	1-15mm	±0.004mm	155-01-1	155-01-0		
.2-.8"	±0.001"	5-20mm	±0.004mm	155-02-1	155-02-0		
.8-1.4"	±0.002"	20-35mm	±0.005mm	155-03-1	155-03-0		
5 flutes							
2.0-1.0"	±0.001"	5-25mm	±0.004mm	155-01-5	155-01-4		
1.0-1.8"	±0.002"	25-45mm	±0.005mm	155-02-5	155-02-4		

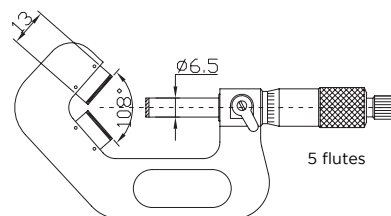
Mechanical models

Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Code No.	Code No.		
3 flutes							
.04-.6"	±0.001"	1-15mm	±0.004mm	151-01-1	151-01-0		
.2-.8"	±0.001"	5-20mm	±0.004mm	151-02-1	151-02-0		
.8-1.4"	±0.002"	20-35mm	±0.005mm	151-03-1	151-03-0		
5 flutes							
.2-1.0"	±0.001"	5-25mm	±0.004mm	151-01-5	151-01-4		
1.0-1.8"	±0.002"	25-45mm	±0.005mm	151-02-5	151-02-4		

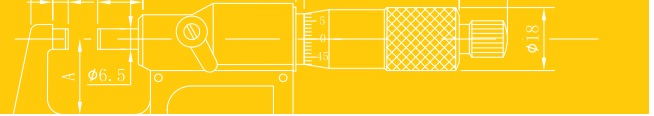
Dimension



3 flutes



5 flutes

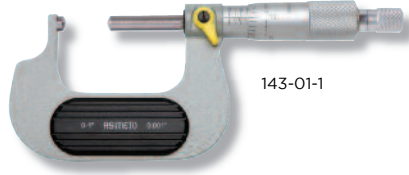


Tube Micrometers

143 / 147 Series



147-01-1



143-01-1



S-wrench



Battery



Standard

STANDARD ACCESSORIES

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

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

SPECIFICATIONS

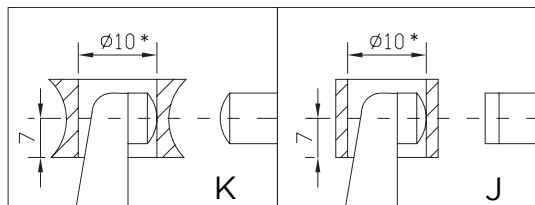
Digital models

Inch		Metric		Anvils	Inch		Metric	
Range	Accuracy	Range	Accuracy		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		Anvils	Inch		Metric	
Range	Accuracy	Range	Accuracy		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

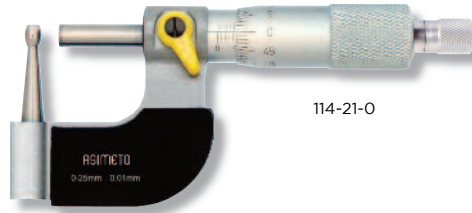


Tube Micrometers

113 / 114 Series



113-01-1



114-21-0



S-wrench



Battery



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

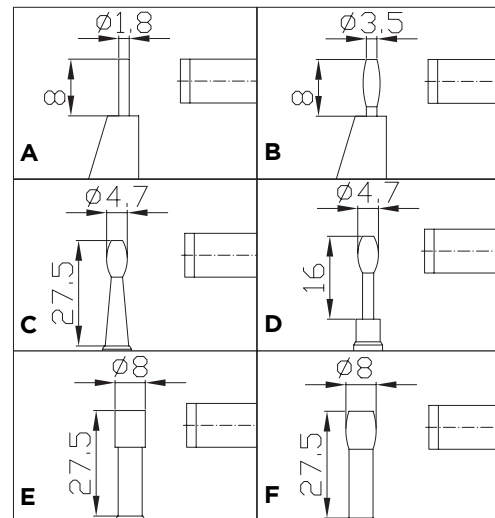
Digital models

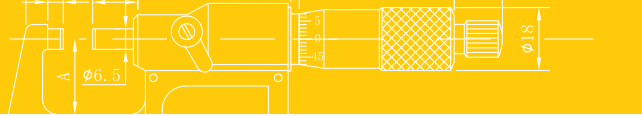
Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Anvils	Code No.	Code No.	Code No.
0-1"	±.0001"	0-25mm	±0.004mm	A	113-01-1	113-01-0	
1-2"	±.0002"	25-50mm	±0.004mm	A	113-02-1	113-02-0	
0-1"	±.0001"	0-25mm	±0.004mm	C	113-21-1	113-21-0	
1-2"	±.0002"	25-50mm	±0.004mm	C	113-22-1	113-22-0	
0-1"	±.0001"	0-25mm	±0.004mm	E	113-41-1	113-41-0	
1-2"	±.0002"	25-50mm	±0.004mm	E	113-42-1	113-42-0	
0-1"	±.0001"	0-25mm	±0.004mm	B	113-11-1	113-11-0	
1-2"	±.0002"	25-50mm	±0.004mm	B	113-12-1	113-12-0	
0-1"	±.0001"	0-25mm	±0.004mm	D	113-31-1	113-31-0	
1-2"	±.0002"	25-50mm	±0.004mm	D	113-32-1	113-32-0	
0-1"	±.0001"	0-25mm	±0.004mm	F	113-51-1	113-51-0	
1-2"	±.0002"	25-50mm	±0.004mm	F	113-52-1	113-52-0	

Mechanical models

Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Anvils	Code No.	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



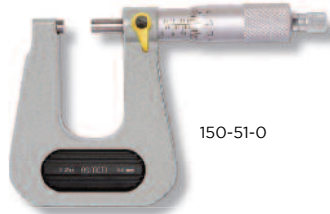


Deep Throat Micrometers

150 / 157 Series



157-51-1



150-51-0



S-wrench



Battery



Standard

STANDARD ACCESSORIES

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

FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .0001" / 0.01mm
- Protection level IP65
- Three Anvils are optional
- For measuring thickness of sheet metal, paper and sheet plastic
- Carbide tipped measuring faces
- Grey painted steel frame
- Ratchet stop

SPECIFICATIONS

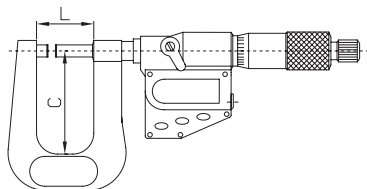
Digital models

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	±0.004mm	157-01-1	157-31-1	157-51-1	157-01-0	157-31-0	157-51-0
50mm	1-2"	±.0002"	25-50mm	±0.004mm	157-02-1	157-32-1	157-52-1	157-02-0	157-32-0	157-52-0
100mm	0-1"	±.0002"	0-25mm	±0.005mm	157-01-3	157-31-3	157-51-3	157-01-2	157-31-2	157-51-2
100mm	1-2"	±.0002"	25-50mm	±0.005mm	157-02-3	157-32-3	157-52-3	157-02-2	157-32-2	157-52-2
150mm	0-1"	±.0003"	0-25mm	±0.006mm	157-01-5	157-31-5	157-51-5	157-01-4	157-31-4	157-51-4
150mm	1-2"	±.0003"	25-50mm	±0.006mm	157-02-5	157-32-5	157-52-5	157-02-4	157-32-4	157-52-4
300mm	0-1"	±.0003"	0-25mm	±0.007mm	157-01-7	157-31-7	-	157-01-6	157-31-6	-
300mm	1-2"	±.0003"	25-50mm	±0.007mm	157-02-7	157-32-7	-	157-02-6	157-32-6	-

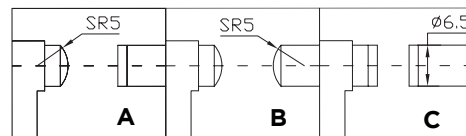
Mechanical models

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	-

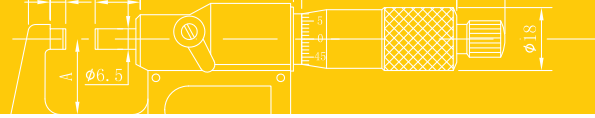
Dimension



Anvils

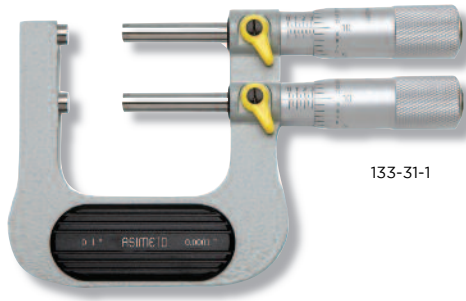


Throat depth	Range		L	C	Range		L	C
	Inch/Metric		mm	mm	Inch/Metric		mm	mm
50	0-1"/0-25mm		32	55	1-2"/25-50mm		57	55
100	0-1"/0-25mm		32	105	1-2"/25-50mm		57	105
200	0-1"/0-25mm		32	155	1-2"/25-50mm		57	155
300	0-1"/0-25mm		32	310	1-2"/25-50mm		57	310



Limit Micrometers

133 Series



133-31-1



S-wrench



Standard

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

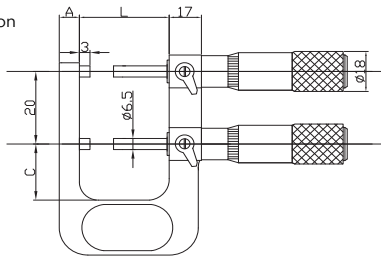
STANDARD ACCESSORIES

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

SPECIFICATIONS

Inch		Metric		Inch	Metric
Range	Accuracy	Range	Accuracy	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

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



161-01-0



S-wrench

STANDARD ACCESSORIES

- S-wrench
- Warranty card, Calibration certificate

SPECIFICATIONS

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



Sheet Metal Micrometers

158 Series



150-51-1



S-wrench

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

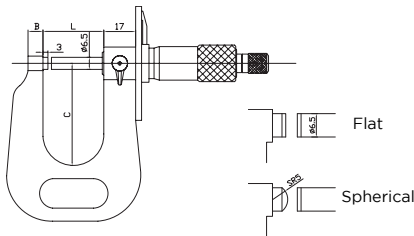
STANDARD ACCESSORIES

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

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

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



160-01-0

S-wrench



Standard



SPECIFICATIONS

Inch		Metric		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		

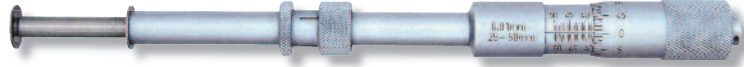


Groove Micrometers

163 Series



163-01-0



163-02-2



163-61-0



S-wrench



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, widths and flanks
- Individual scales readings are provided for inside and outside measurements

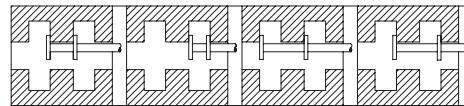
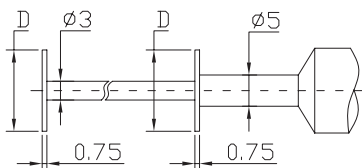
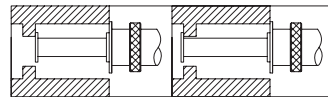
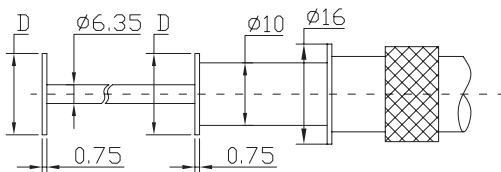
STANDARD ACCESSORIES

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

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





Indicating Micrometers

152 Series



152-01-0



S-wrench



Standard

FEATURES

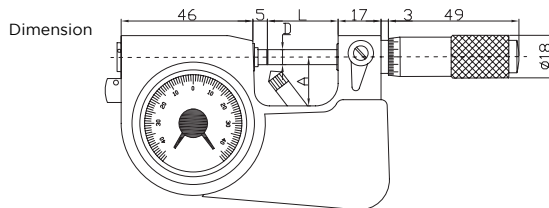
- Resolution:
Indicator: .00005" / 0.001mm
Scale: .0001" / 0.002mm
- Carbide tipped measuring faces
- Grey painted steel frame
- Indicator range: $\pm 0.04\text{mm}$
- Retractable anvil with an indicator for precision measurement of mass-produced parts

STANDARD ACCESSORIES

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

SPECIFICATIONS

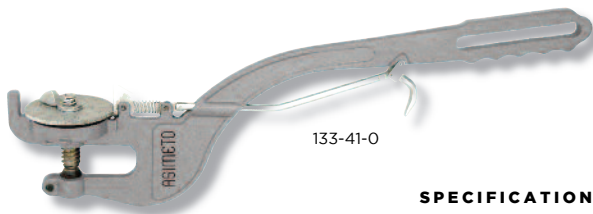
Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Code No.	Code No.	Code No.	Code No.
0-1"	$\pm 0.0001"$	0-25mm	$\pm 0.002\text{mm}$	152-01-1	152-01-0		
1-2"	$\pm 0.0002"$	25-50mm	$\pm 0.002\text{mm}$	152-02-1	152-02-0		
2-3"	$\pm 0.0002"$	50-75mm	$\pm 0.003\text{mm}$	152-03-1	152-03-0		
3-4"	$\pm 0.0002"$	75-100mm	$\pm 0.003\text{mm}$	152-04-1	152-04-0		



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

Hot Sheet Micrometers

133 Series



133-41-0

FEATURES

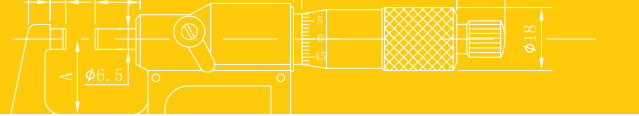
- Graduation: .002" / 0.05mm
- Grey painted steel frame
- Designed for measuring thickness of hot rolling sheet metal
- Carbide tipped measuring faces

SPECIFICATIONS

Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Code No.	Code No.	Code No.	Code No.
0-.6"	.002"	0-15mm	0.05mm	133-41-1	133-41-0		
.6-1.2"	.002"	15-30mm	0.05mm	133-42-1	133-42-0		
1.2-1.8"	.002"	30-45mm	0.05mm	133-43-1	133-43-0		
1.8-2.4"	.002"	45-60mm	0.05mm	133-44-1	133-44-0		
2.4-3.0"	.002"	60-75mm	0.05mm	133-45-1	133-45-0		
3.0-3.6"	.002"	75-90mm	0.05mm	133-46-1	133-46-0		
3.6-4.2"	.002"	90-105mm	0.05mm	133-47-1	133-47-0		

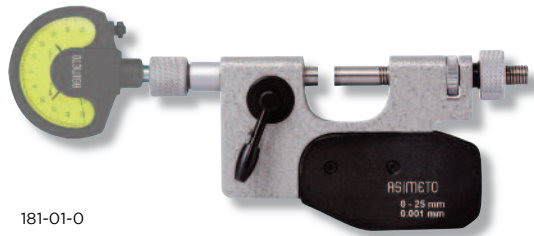
STANDARD ACCESSORIES

- Warranty card



Snap Gauges

181 Series



181-01-0

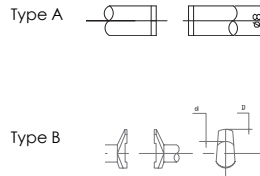
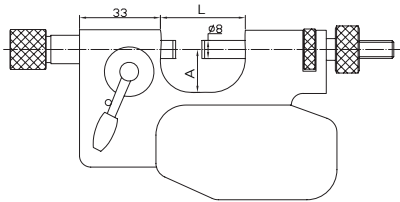
FEATURES

- Grey painted steel frame
- Carbide tipped measuring faces
- Dial gauge is not included and is optional, Refer to page 95 (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

SPECIFICATIONS

Type A		Inch		Metric		Type B		Inch		Metric	
Range	Range	Code No.	Code No.	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								

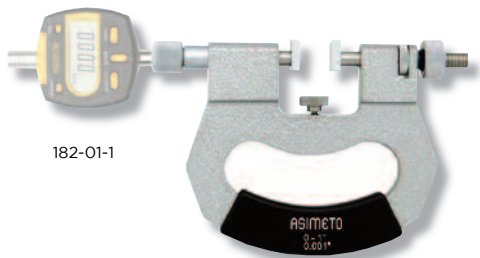
Dimension



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 page 89
- 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

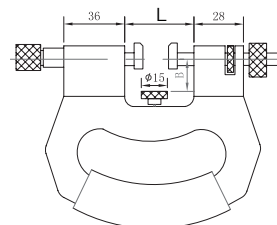
STANDARD ACCESSORIES

- Warranty card, Instruction manual

SPECIFICATIONS

Inch		Metric		Inch		Metric	
Range	Range	L	B	Code No.	Code No.	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

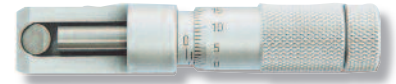
162 Series



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



S-wrench

STANDARD ACCESSORIES

- S-wrench
- Warranty card, Calibration certificate

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



S-wrench



Battery

STANDARD ACCESSORIES

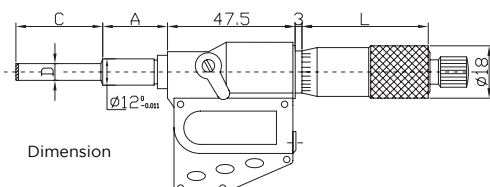
- S-wrench, Battery
- Warranty card, Instruction manual, Calibration certificate

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	±0.003mm	Flat & Carbide tipped	w/o	165-01-1	165-01-0
0-1"	±.0001"	0-25mm	±0.003mm	Spherical	w/o	165-01-3	165-01-2
0-1"	±.0001"	0-25mm	±0.003mm	With non-rotating device	w/o	165-01-5	165-01-4
0-1"	±.0001"	0-25mm	±0.003mm	Flat & Carbide tipped	with	165-61-1	165-61-0
0-1"	±.0001"	0-25mm	±0.003mm	Spherical	with	165-61-3	165-61-2
0-1"	±.0001"	0-25mm	±0.003mm	With non-rotating device	with	165-61-5	165-61-4
0-2"	±.0002"	0-50mm	±0.005mm	Flat & Carbide tipped	w/o	165-02-1	165-02-0
0-2"	±.0002"	0-50mm	±0.005mm	Spherical	w/o	165-02-3	165-02-2



Dimension

Range	D	A	C	L
0-1"/0-25mm	Φ6.5mm	17.5mm	28.5mm	47mm
0-1"/0-50mm	Φ8mm	35.5mm	53mm	71.5mm

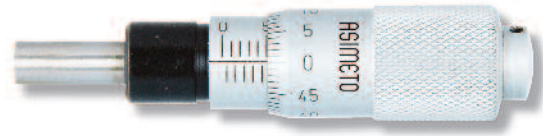


Micrometer Heads

169 Series



169-05-7



169-05-0

FEATURES

- Graduation: .001" / 0.01mm
- Satin chrome finish
- Ratchet stop for 0-25mm range

STANDARD ACCESSORIES

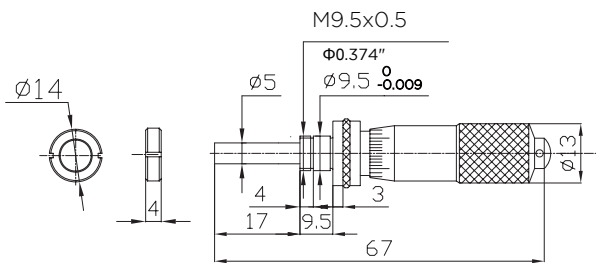
- S-wrench
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

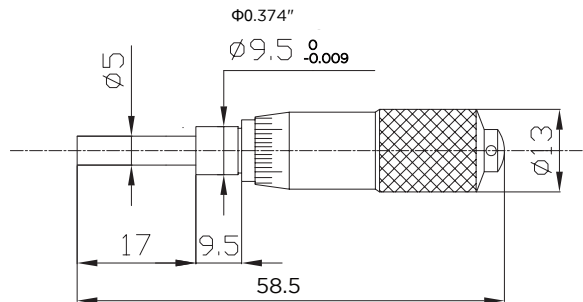
Inch			Metric						Inch		Metric	
Range	Accuracy	Spindle Dia.	Range	Accuracy	Spindle Dia.	Spindle Lock	Measuring Face	Clamp Nut	Code No.	Code No.	Code No.	Code No.
0-.5"	±.0001"	Φ0.197"	0-13mm	±0.004mm	Φ5mm	w/o	Flat	w/o	169-05-1	169-05-0		
0-.5"	±.0001"	Φ0.197"	0-13mm	±0.004mm	Φ5mm	with	Flat	with	169-05-3	169-05-2		
0-.5"	±.0001"	Φ0.197"	0-13mm	±0.004mm	Φ5mm	w/o	Spherical	w/o	169-05-5	169-05-4		
0-.5"	±.0001"	Φ0.197"	0-13mm	±0.004mm	Φ5mm	with	Spherical	with	169-05-7	169-05-6		
0-.5"	±.0001"	Φ0.197"	0-13mm	±0.004mm	Φ5mm	w/o	Flat	with	169-05-9	169-05-8		
0-.5"	±.0001"	Φ0.197"	0-13mm	±0.004mm	Φ5mm	with	Carbide & Flat	with	169-35-1	169-35-0		
0-.5"	±.0001"	Φ0.197"	0-13mm	±0.004mm	Φ5mm	w/o	Carbide & Spherical	w/o	169-35-3	169-35-2		
0-1"	±.0001"	Φ0.256"	0-25mm	±0.004mm	Φ6.5mm	w/o	Carbide & Spherical	with	169-01-1	169-01-0		

Dimension

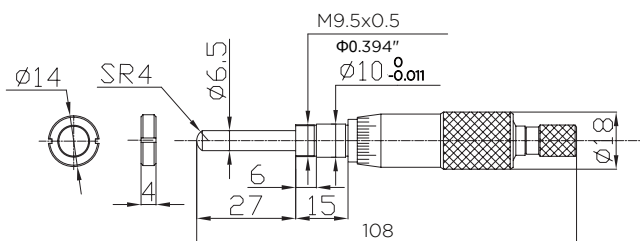
169-05-2/3 169-05-6/7 169-35-0/1



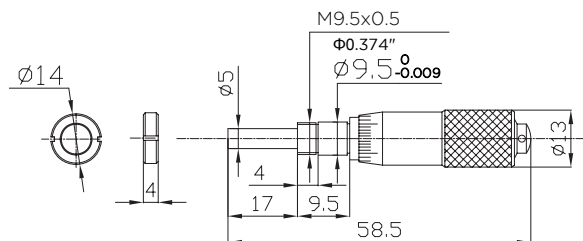
169-05-0/1 169-05-4/5 169-35-2/3

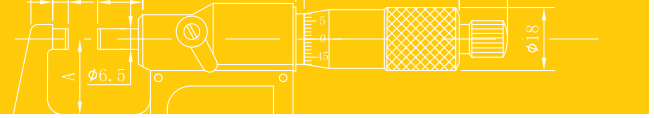


169-01-0/1



169-05-8/9





Depth Micrometers

201 / 202 / 205 Series



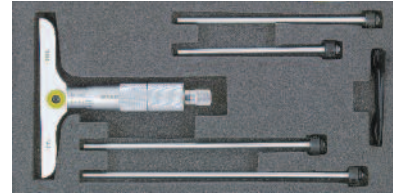
205-04-3



201-06-7



202-04-2



201-04-3



FEATURES

- Resolution:
 - Digital models: .00005" / 0.001mm
 - Mechanical models: .001" / 0.01mm
 - Digital models: .001" / 0.01mm
- 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	Accuracy	Range	Accuracy	Base length	Rods	Flat end	Spherical end	Flat end	Spherical end
Digit models									
0-2"	±.0002"	0-50mm	±.004mm	63mm	2 pcs	202-02-1	202-52-1	202-02-0	202-52-0
0-4"	±.0002"	0-100mm	±.005mm	63mm	4 pcs	202-04-1	202-54-1	202-04-0	202-54-0
0-6"	±.0002"	0-150mm	±.005mm	63mm	6 pcs	202-06-1	202-56-1	202-06-0	202-56-0
0-12"	±.00028"	0-300mm	±.007mm	63mm	12 pcs	202-12-1	202-62-1	202-12-0	202-62-0
0-4"	±.0002"	0-100mm	±.005mm	101.5mm	4 pcs	202-04-3	202-54-3	202-04-2	202-54-2
0-6"	±.0002"	0-150mm	±.005mm	101.5mm	6 pcs	202-06-3	202-56-3	202-06-2	202-56-2
0-12"	±.00028"	0-300mm	±.007mm	101.5mm	12 pcs	202-12-3	202-62-3	202-12-2	202-62-2
Digital models									
0-2"	±.0002"	0-50mm	±.004mm	63mm	2 pcs	205-02-1	205-52-1	205-02-0	205-52-0
0-4"	±.0002"	0-100mm	±.005mm	63mm	4 pcs	205-04-1	205-54-1	205-04-0	205-54-0
0-6"	±.0002"	0-150mm	±.005mm	63mm	6 pcs	205-06-1	205-56-1	205-06-0	205-56-0
0-12"	±.00028"	0-300mm	±.007mm	63mm	12 pcs	205-12-1	205-62-1	205-12-0	205-62-0
0-4"	±.0002"	0-100mm	±.005mm	101.5mm	4 pcs	205-04-3	205-54-3	205-04-2	205-54-2
0-6"	±.0002"	0-150mm	±.005mm	101.5mm	6 pcs	205-06-3	205-56-3	205-06-2	205-56-2
0-12"	±.00028"	0-300mm	±.007mm	101.5mm	12 pcs	205-12-3	205-62-3	205-12-2	205-62-2
Mechanical models									
0-2"	±.0002"	0-50mm	±.004mm	63mm	2 pcs	201-02-1	201-52-1	201-02-0	201-52-0
0-4"	±.0002"	0-100mm	±.005mm	63mm	4 pcs	201-04-1	201-54-1	201-04-0	201-54-0
0-6"	±.0002"	0-150mm	±.005mm	63mm	6 pcs	201-06-1	201-56-1	201-06-0	201-56-0
0-12"	±.00028"	0-300mm	±.007mm	63mm	12 pcs	201-12-1	201-62-1	201-12-0	201-62-0
0-4"	±.0002"	0-100mm	±.005mm	101.5mm	4 pcs	201-04-3	201-54-3	201-04-2	201-54-2
0-6"	±.0002"	0-150mm	±.005mm	101.5mm	6 pcs	201-06-3	201-56-3	201-06-2	201-56-2
0-12"	±.00028"	0-300mm	±.007mm	101.5mm	12 pcs	201-12-3	201-62-3	201-12-2	201-62-2
Mechanical models - Half base									
0-4"	±.0002"	0-100mm	±.005mm	57mm	4 pcs	201-04-7	-	201-04-6	-
0-6"	±.0002"	0-150mm	±.005mm	57mm	6 pcs	201-06-7	-	201-06-6	-



Micrometer Standards

110 Series



110-11-1

110-08-1

110-06-1

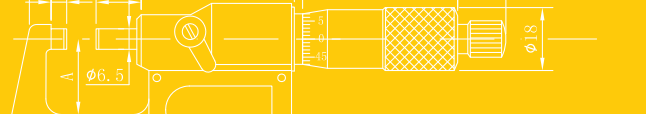
FEATURES

- 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

SPECIFICATIONS

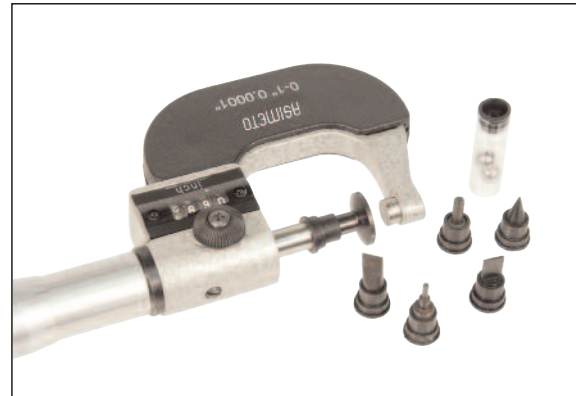
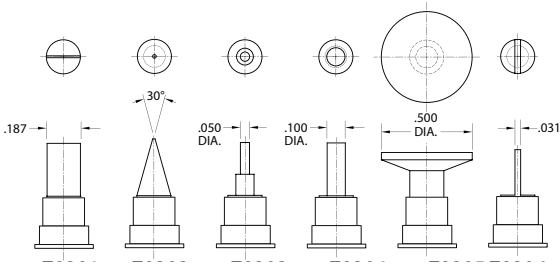
Inch			
Size	Accuracy	Diameter	Code No.
1"	±0.00005"	Φ7mm	110-01-1
2"	±0.0001"	Φ7mm	110-02-1
3"	±0.0001"	Φ7mm	110-03-1
4"	±0.0001"	Φ8mm	110-04-1
5"	±0.00015"	Φ8mm	110-05-1
6"	±0.00015"	Φ8mm	110-06-1
7"	±0.00015"	Φ8mm	110-07-1
8"	±0.00015"	Φ8mm	110-08-1
9"	±0.00020"	Φ8mm	110-09-1
10"	±0.00020"	Φ8mm	110-10-1
11"	±0.00020"	Φ8mm	110-11-1
12"	±0.00025"	Φ16mm	110-12-1
13"	±0.00025"	Φ16mm	110-13-1
14"	±0.00025"	Φ16mm	110-14-1
15"	±0.00025"	Φ16mm	110-15-1
16"	±0.00025"	Φ16mm	110-16-1
17"	±0.00025"	Φ16mm	110-17-1
18"	±0.00025"	Φ16mm	110-18-1
19"	±0.00030"	Φ16mm	110-19-1
20"	±0.00030"	Φ16mm	110-20-1
21"	±0.00030"	Φ16mm	110-21-1
23"	±0.00030"	Φ16mm	110-22-1
25"	±0.00030"	Φ16mm	110-23-1
27"	±0.00035"	Φ16mm	110-24-1
29"	±0.00035"	Φ16mm	110-25-1
31"	±0.00035"	Φ16mm	110-26-1
33"	±0.00035"	Φ16mm	110-27-1
35"	±0.00035"	Φ16mm	110-28-1
37"	±0.00035"	Φ16mm	110-29-1

Metric			
Size	Accuracy	Diameter	Code No.
25mm	±0.002mm	Φ7mm	110-01-0
50mm	±0.0020mm	Φ7mm	110-02-0
75mm	±0.0020mm	Φ7mm	110-03-0
100mm	±0.0020mm	Φ8mm	110-04-0
125mm	±0.0020mm	Φ8mm	110-05-0
150mm	±0.0030mm	Φ8mm	110-06-0
175mm	±0.0030mm	Φ8mm	110-07-0
200mm	±0.0030mm	Φ8mm	110-08-0
225mm	±0.0040mm	Φ8mm	110-09-0
250mm	±0.0040mm	Φ8mm	110-10-0
275mm	±0.0040mm	Φ8mm	110-11-0
300mm	±0.0050mm	Φ16mm	110-12-0
325mm	±0.0050mm	Φ16mm	110-13-0
350mm	±0.0050mm	Φ16mm	110-14-0
375mm	±0.0050mm	Φ16mm	110-15-0
400mm	±0.0050mm	Φ16mm	110-16-0
425mm	±0.0050mm	Φ16mm	110-17-0
450mm	±0.0060mm	Φ16mm	110-18-0
475mm	±0.0060mm	Φ16mm	110-19-0
500mm	±0.0060mm	Φ16mm	110-20-0
525mm	±0.0060mm	Φ16mm	110-21-0
575mm	±0.0060mm	Φ16mm	110-22-0
625mm	±0.0070mm	Φ16mm	110-23-0
675mm	±0.0070mm	Φ16mm	110-24-0
725mm	±0.0070mm	Φ16mm	110-25-0
775mm	±0.0080mm	Φ16mm	110-26-0
825mm	±0.0080mm	Φ16mm	110-27-0
875mm	±0.0080mm	Φ16mm	110-28-0
925mm	±0.0080mm	Φ16mm	110-29-0
975mm	±0.0080mm	Φ16mm	110-30-0
1050mm	±0.0090mm	Φ23mm	110-31-0
1150mm	±0.0090mm	Φ23mm	110-32-0
1250mm	±0.0090mm	Φ23mm	110-33-0
1350mm	±0.0105mm	Φ23mm	110-34-0
1450mm	±0.0105mm	Φ23mm	110-35-0
1550mm	±0.0105mm	Φ23mm	110-36-0
1650mm	±0.0125mm	Φ23mm	110-37-0
1750mm	±0.0125mm	Φ23mm	110-38-0
1850mm	±0.0125mm	Φ23mm	110-39-0
1950mm	±0.0125mm	Φ23mm	110-40-0



Micrometer Anvil Attachments

146 Series



FEATURES

- A must accessory for every Micrometer.
- Each Anvil is 1/2" long. Comes with reinforced holding boot, and will fit on any 1-12" Micrometer.
- Anvils are hardened Steel with Black Oxide finish
- Fits .235 and .250 spindle diameters

SPECIFICATIONS

7 PCS Set Code No.: 146-70-0		
Individuals	Description	Code No.
Super Spline	.050" face	146-71-0
Spline	.100" face	146-72-0
Blade	.300" thick	146-73-0
Disc	.500" face	146-74-0
Knife	30 degrees	146-75-0
Comparator	30 degrees	146-76-0
Ball attachment	.200"	146-77-0
Ball attachment	5mm	146-77-2 *

* The set not included

Thread Measuring Triangle Set

FEATURES

- Measures simulated thread pitch diameter to reference thread chart provided for all 60 degree threads
- Made of hardened steel with black oxide finish
- Set includes:
 - 2 Thread Triangles,
 - 2 rubber holding bands
 - Protective hinged plastic case complete with Unified thread chart

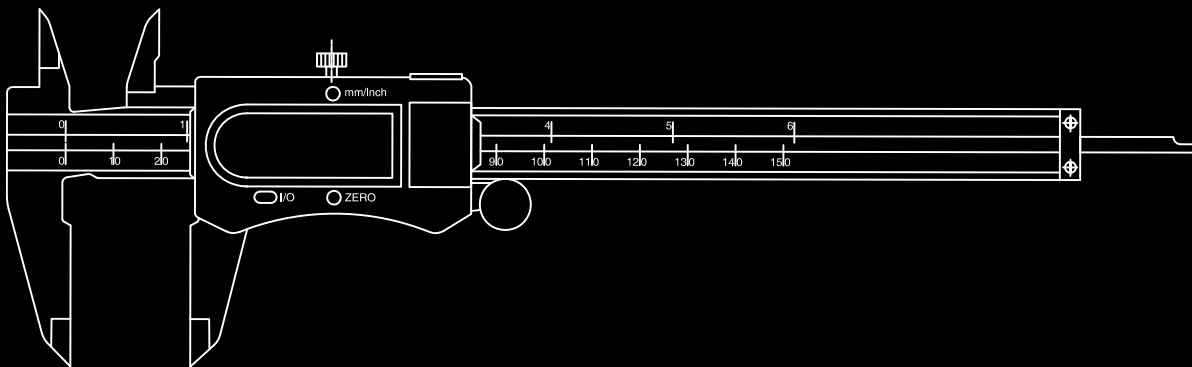


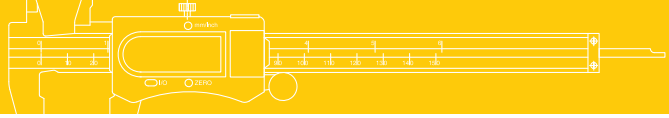
SPECIFICATIONS

Code No.
146-80-0

Calipers

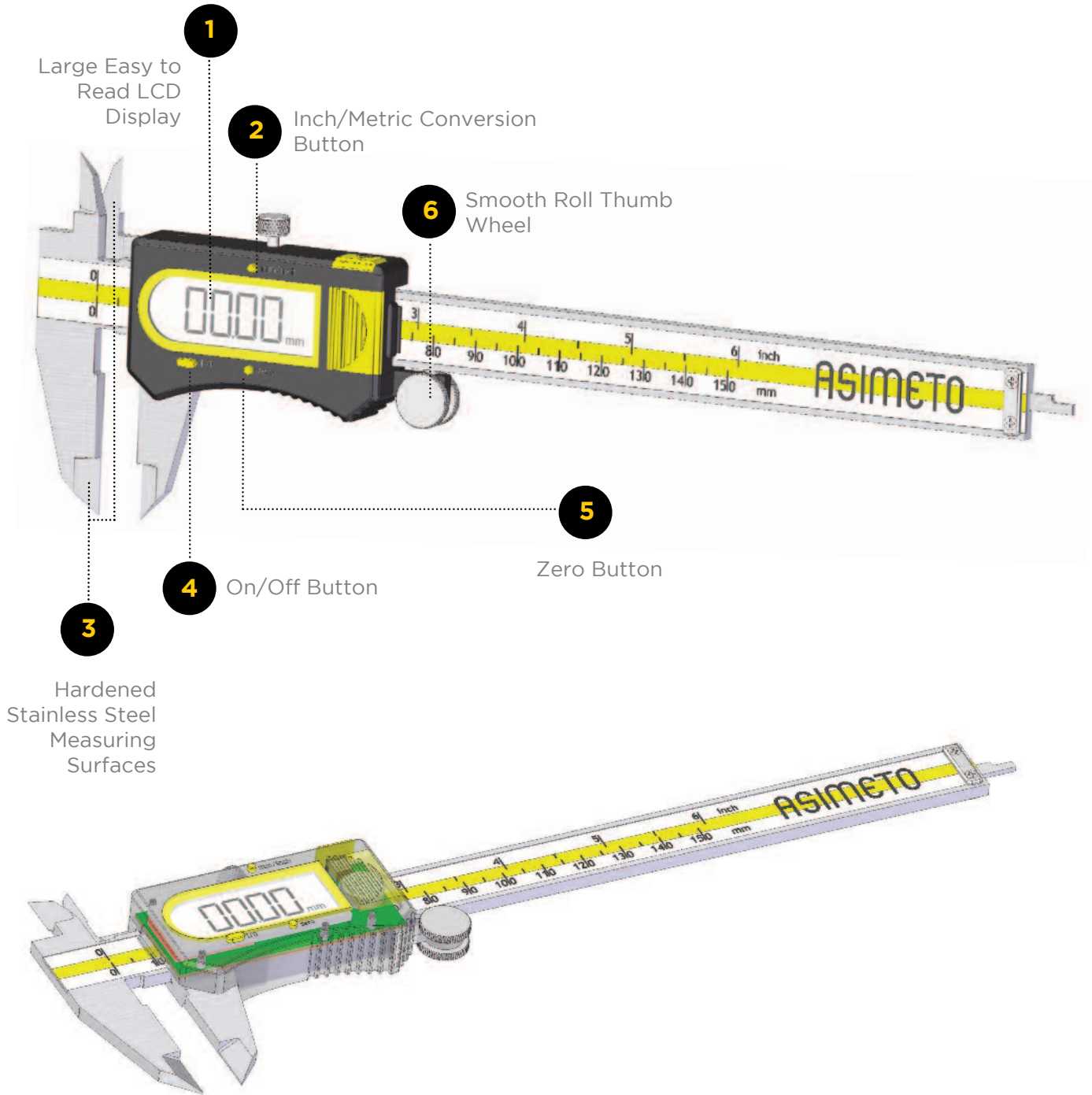
- 48 IP67 Digital Calipers_SYLVAC SYSTEM
- 48 Absolute Digital Calipers
- 49 Digital Calipers
- 50 IP67 Coolant Proof Digital Calipers
- 51 Heavy Duty Digital Calipers
- 52 Heavy Duty Digital Calipers_SYLVAC SYSTEM
- 53 Digital Universal Depth Gauge
- 54 Digital Caliper for Outside/Inside Grooves
- 55 Digital Tube Calipers
- 55 Digital Calipers With Adjustable Measuring Jaw
- 56 Digital Gear Tooth Calipers
- 57 Digital Thickness Gauges
- 58 Digital Gauges With Single Wide Measuring Face
- 58 Welding Fillet Gauges
- 59 Hook Type Digital Calipers
- 59 Mini-type 3-purpose Digital Calipers
- 60 Digital Scales
- 61 Dial Calipers
- 62 Vernier Calipers
- 64 Heavy Duty Vernier Calipers
- 67 Circle Vernier Calipers
- 67 Marking Calipers
- 68 Forester Calipers
- 69 Internal / External Caliper Gauges
- 71 Caliper Extender Attachments
- 72 Universal Caliper Accessory Kit
- 72 Centerline Gauges
- 73 Groove Measurement Caliper Jaws
- 74 Tool Kits

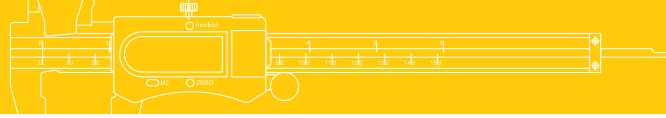




ASIMETO Digital Calipers

Features:





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

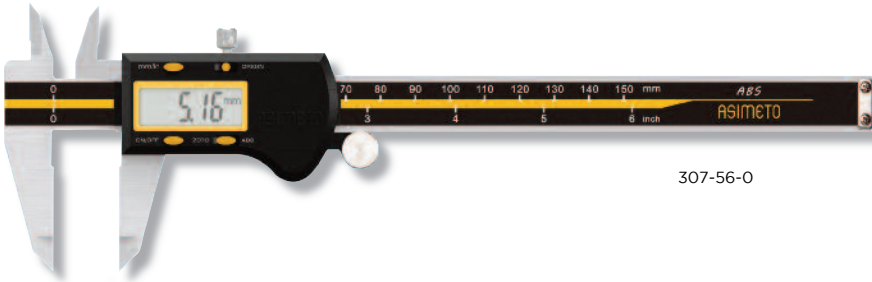
SPECIFICATIONS

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	

STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

Absolute Digital Calipers 307 Series



307-56-0

FEATURES

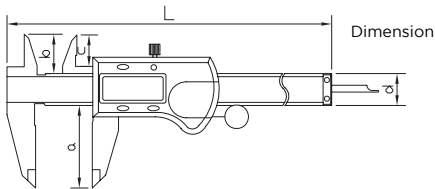
- Resolution: .0005" / 0.01mm
- The caliper will be ready for measurements as soon as it is switched on with the LCD screen displaying the actual slider position. There is no need to set the zero position each time the caliper is used as the origin setting is retained even when the caliper is switched off
- Inch/Metric conversion
- A thumb wheel is provided for easy use
- The ZERO/ABS changes the measurement mode from absolute to incremental. This is useful if a temporary origin is required to set the nominal value as zero for repetitive measuring task. By pressing the Zero/ABS button the display value will change to the original zero point (usually with the jaws in a closed position) and the measurement mode will be displayed

SPECIFICATIONS

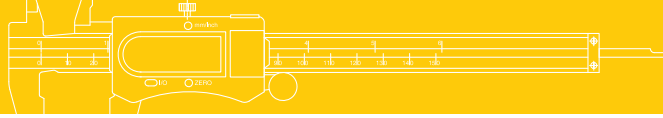
Inch		Metric		Code No.
Range	Accuracy	Range	Accuracy	
0-6"	±.001"	0-150mm	±0.02mm	307-56-0
0-8"	±.0015"	0-200mm	±0.03mm	307-58-0
0-12"	±.0015"	0-300mm	±0.03mm	307-62-0

STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate



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



Digital Caliper

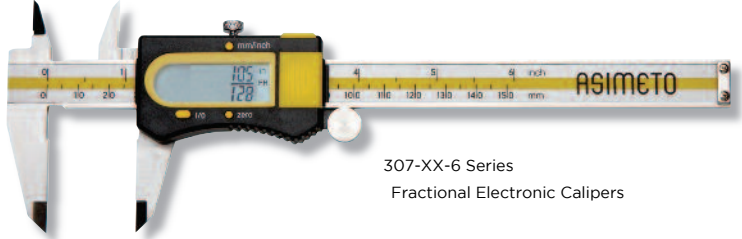
307 Series



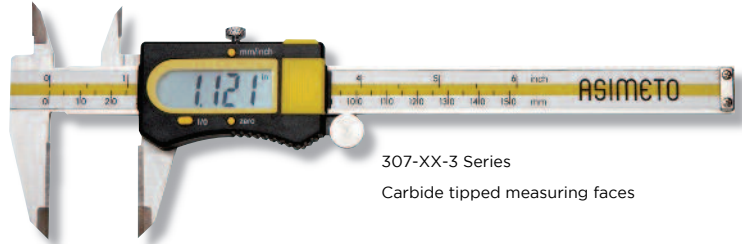
307-XX-1 Series
With Thumb Wheel



307-XX-0 Series
Without Thumb Wheel



307-XX-6 Series
Fractional Electronic Calipers



307-XX-3 Series
Carbide tipped measuring faces

FEATURES

- Resolution: .0005" / 0.01mm / 1/128"
- Extra large LCD readout
- The origin position is retained through the on/off cycle
- Inch/Metric conversion
- Three models are optional

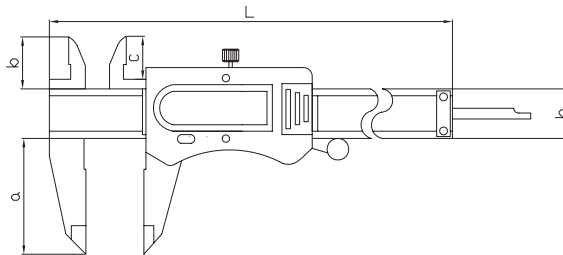
STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

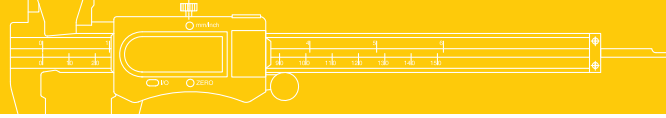
SPECIFICATIONS

Inch	Metric	With Thumb Wheel	W/O Thumb Wheel		
Range	Accuracy	Range	Accuracy	Code No.	Code No.
General measuring surface					
0-6"	±.001"	0-150mm	±0.02mm	307-06-1	307-06-0
0-8"	±.0015"	0-200mm	±0.03mm	307-08-1	307-08-0
0-12"	±.0015"	0-300mm	±0.04mm	307-12-1	307-12-0
Carbide tipped measuring faces					
0-6"	±.001"	0-150mm	±0.02mm	307-06-3	-
0-8"	±.0015"	0-200mm	±0.03mm	307-08-3	-
0-12"	±.0015"	0-300mm	±0.04mm	307-12-3	-
Fractional Electronic Calipers					
0-6"	±.001"	0-150mm	±0.02mm	307-06-6	-
0-8"	±.0015"	0-200mm	±0.03mm	307-08-6	-

Dimension

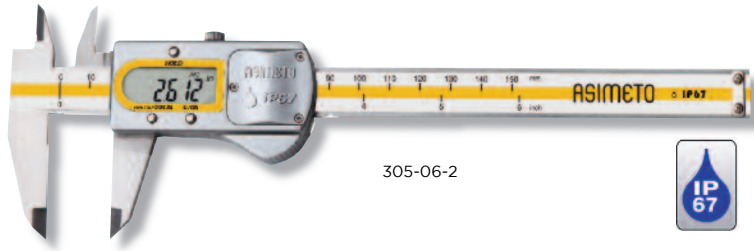


Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-6"/0-150mm	236	40	21	16.5	16
0-8"/0-200mm	286	50	24	19.5	16
0-12"/0-300mm	400	60	25	20.5	17



IP67 Digital Calipers

305 Series



FEATURES

- Resolution: .0005" / 0.01mm
- Conforms to the IP67 ratings
- Absolute function, there is no need to set the zero
- Hold function for easy reading
- Absolute or incremental measuring modes
- Inch/Metric conversion
- Metal Housing, the design will allow the caliper to be used in normal workshop conditions and is resistant to coolant, water, dust or oil
- With Thumb Wheel
- Auto power on/off
- Power: 3V lithium battery

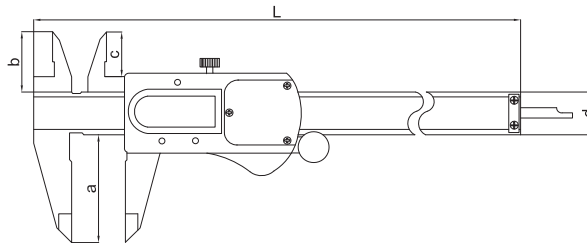
STANDARD ACCESSORIES

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

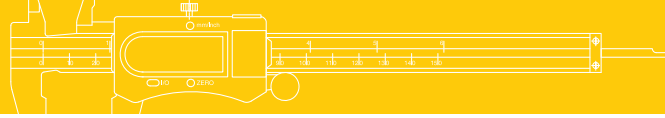
SPECIFICATIONS

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	±0.04mm	305-12-2

Dimension

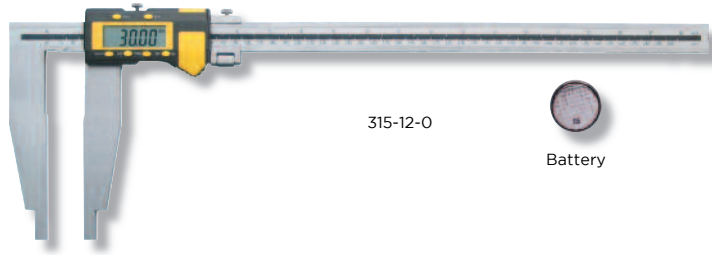


Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-6"/0-150mm	236	40	21	16.5	16
0-8"/0-200mm	286	50	24	19.5	16
0-12"/0-300mm	400	60	25	20.5	16



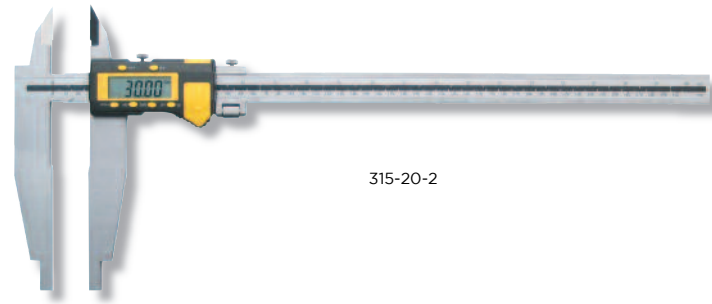
Heavy Duty Digital Calipers

315 Series



315-12-0

Battery



315-20-2

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
- Six buttons
- Zero setting at any position
- Models are available with or without upper jaws

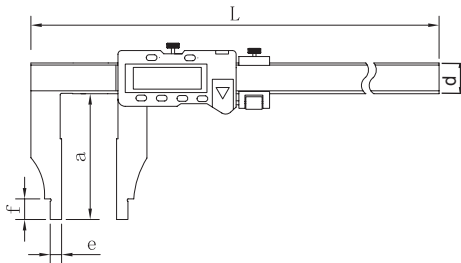
STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

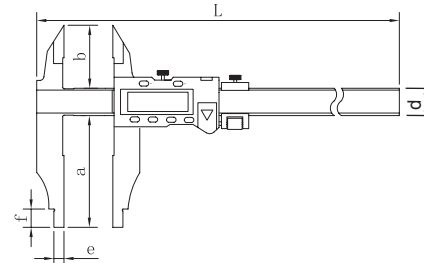
SPECIFICATIONS

Inch		Metric		Accuracy	Jaw Length	Code No.
Range	Resolution	Range	Resolution			
Without Upper Jaws						
0-12"	.0005"	0-300mm	0.01mm	±0.04mm	100mm	315-12-0
0-20"	.0005"	0-500mm	0.01mm	±0.05mm	150mm	315-20-0
0-32"	.0005"	0-800mm	0.01mm	±0.07mm	150mm	315-32-0
0-40"	.0005"	0-1000mm	0.01mm	±0.10mm	200mm	315-40-0
With Upper Jaws						
0-12"	.0005"	0-300mm	0.01mm	±0.04mm	100mm	315-12-2
0-20"	.0005"	0-500mm	0.01mm	±0.05mm	150mm	315-20-2
0-32"	.0005"	0-800mm	0.01mm	±0.07mm	150mm	315-32-2
0-40"	.0005"	0-1000mm	0.01mm	±0.10mm	200mm	315-40-2

Remark: Special Jaw Length apart from listed ones are available also

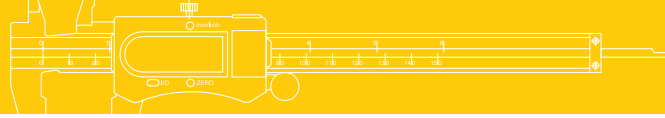


Dimension



Range	L	a	d	e	f
Inch/Metric	mm	mm	mm	mm	mm
0-12"/0-300mm	470	100	25	10	18
0-20"/0-500mm	680	150	25	10	18
0-32"/0-800mm	1030	150	32	10	25
0-40"/0-1000mm	1230	200	32	10	25

Range	L	a	b	d	e	f
Inch/Metric	mm	mm	mm	mm	mm	mm
0-12"/0-300	470	100	56	25	10	18
0-20"/0-500	680	150	56	25	10	25
0-32"/0-800	1030	150	67	32	10	25
0-40"/0-1000	1230	200	67	32	10	25

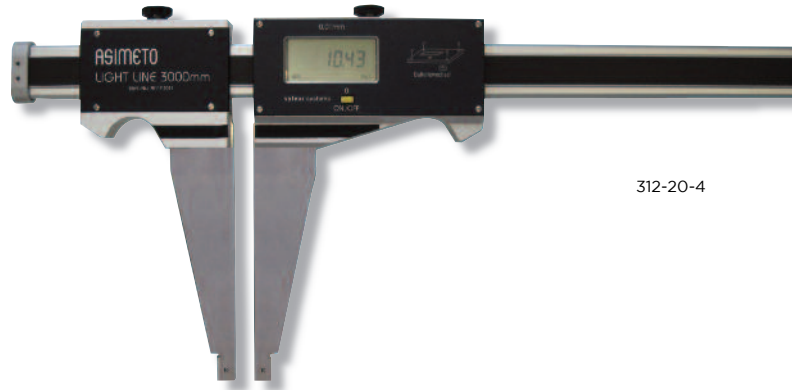


Heavy Duty Digital Calipers _SYLVAC SYSTEM

312 Series

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



312-20-4

STANDARD ACCESSORIES

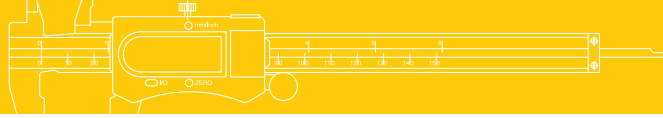
- Battery
- Warranty card, Instruction manual, Calibration certificate



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	±0.08mm	150mm	20mm	CR2032 3V	Sylvac Electronics	312-80-2
0-120"	0-3000mm	±0.18mm	150mm	20mm	CR2032 3V	Sylvac Electronics	312-20-4



Digital Universal Depth Gauge

312 Series



FEATURES

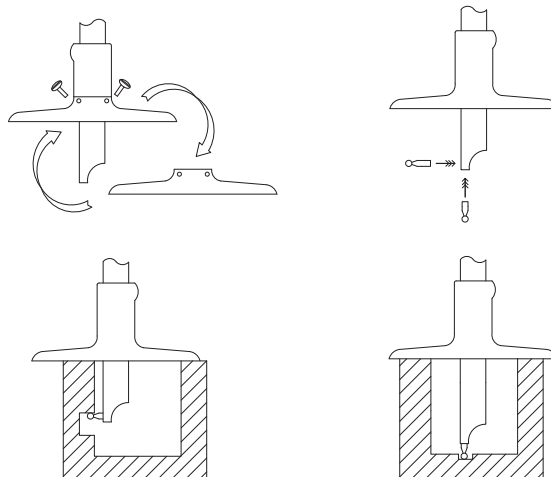
- Resolution: .0005" / 0.01mm
- Lightweight design
- Easy to read display. Optimum sliding characteristics are ensured by double Vee guides. Measurement head of hard-coated aluminium with two tapped holes at 90° (M2.5) to take the measuring tips.
- Inch/Metric conversion
- Power: LR44 1.5V Battery

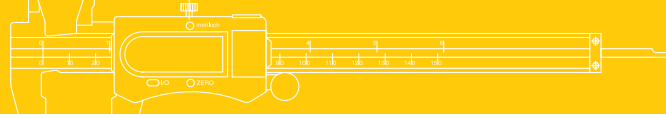
STANDARD ACCESSORIES

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

SPECIFICATIONS

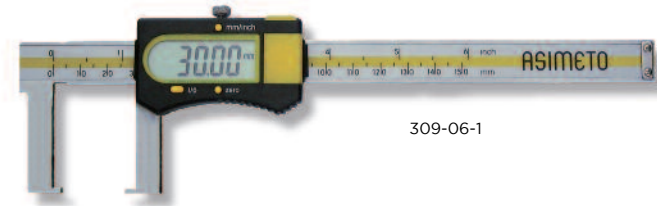
Inch	Metric		
Range	Range	Accuracy	Code No.
0-12"	0-300mm	\pm 0.04mm	312-12-6
0-20"	0-500mm	\pm 0.05mm	312-20-6
0-32"	0-800mm	\pm 0.06mm	312-32-6



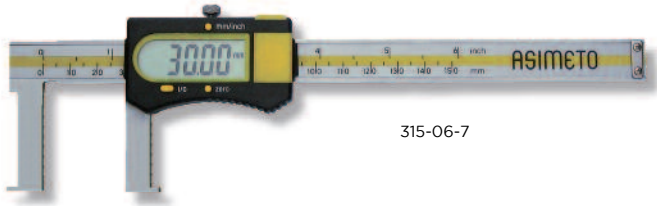


Digital Calipers for Outside/Inside Grooves

309 / 315 Series



309-06-1



315-06-7

FEATURES

- Resolution: .0005" / 0.01mm
- Series 309: Measures external grooves and recessed hub dimensions
- Series 315: Measures internal grooves, bores and other details
- Inch/Metric conversion
- Zero-setting at any position for incremental measurement

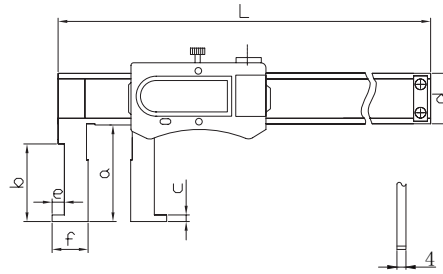
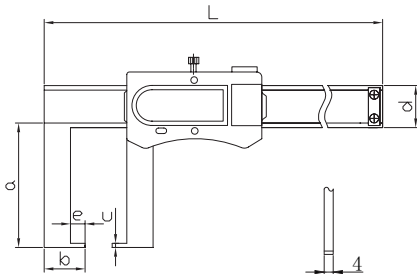
STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

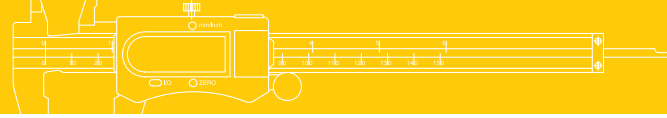
Inch			Metric			Code No.
Range	Resolution	Accuracy	Range	Resolution	Accuracy	
Outside groove						
0-6"	.0005"	±.001"	0-150mm	0.01mm	±0.03mm	309-06-1
0-8"	.0005"	±.0015"	0-200mm	0.01mm	±0.04mm	309-08-1
0-12"	.0005"	±.0015"	0-300mm	0.01mm	±0.04mm	309-12-1
Inside groove						
0.8-6"	.0005"	±.001"	20-150mm	0.01mm	±0.04mm	315-06-7
1.4-6"	.0005"	±.0015"	35-150mm	0.01mm	±0.04mm	315-56-7
1.6-8"	.0005"	±.0015"	40-200mm	0.01mm	±0.04mm	315-08-7
2-12"	.0005"	±.002"	50-300mm	0.01mm	±0.05mm	315-12-7

Dimension



Range	L	a	b	c	d	e
Inch/Metric	mm	mm	mm	mm	mm	mm
0-6"/0-150mm	250	40	10	1	16	5
0-8"/0-200mm	310	50	19	1	16	7
0-12"/0-300mm	400	60	21	2	20	10

Range	L	a	b	c	d	e	f
Inch/Metric	mm	mm	mm	mm	mm	mm	mm
.8-6"/20-150mm	250	46	40	1	16	5	10
1.4-6"/35-150mm	250	66	60	1.5	16	6	17.5
1.6-8"/40-200mm	310	76	70	1.5	16	7	20
2-12"/50-300mm	410	86	80	1.5	17	8	25



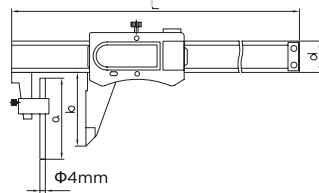
Digital Tube Calipers

316 Series



316-06-0

Dimension



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

STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch		Metric		L	a	b	d	Code No.
Range	Accuracy	Range	Accuracy	mm	mm	mm	mm	
0-6"	±.001"	0-150mm	±0.03mm	250	46	40	16	316-06-0
0-8"	±.0015"	0-200mm	±0.03mm	300	50	50	16	316-08-0
0-12"	±.0015"	0-300mm	±0.04mm	400	66	60	17	316-12-0

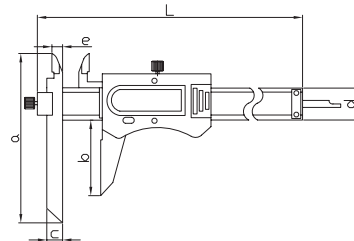
Digital Caliper With Adjustable Measuring Jaw

317 Series



317-06-0

Dimension



FEATURES

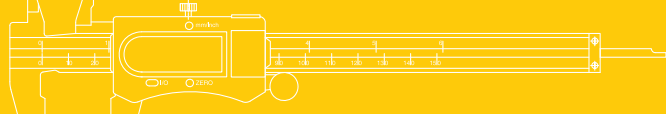
- Resolution: .0005" / 0.01mm
- The stationary jaw on the beam is designed with vertical movement for the purpose of measuring various steps of different heights
- Inch/Metric conversion
- Zero-setting at any position

STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch		Metric		L	a	b	c	d	e	Code No.
Range	Accuracy	Range	Accuracy	mm	mm	mm	mm	mm	mm	
0-6"	±.0015"	0-150mm	±0.04mm	239	110	40	10	16	7	317-06-0
0-8"	±.0015"	0-200mm	±0.04mm	289	120	50	10	16	7	317-08-0
0-12"	±.0020"	0-300mm	±0.05mm	389	130	60	10	16	7	317-12-0



Digital Gear Tooth Calipers

328 Series

FEATURES

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

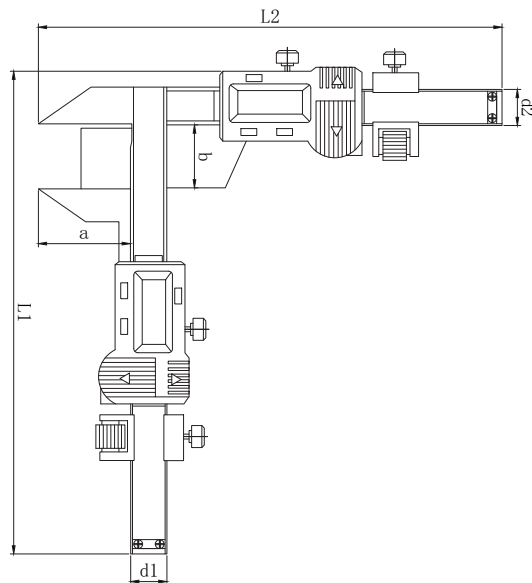
STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate



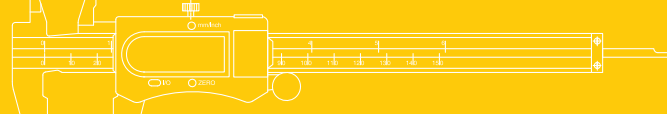
328-06-0

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



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

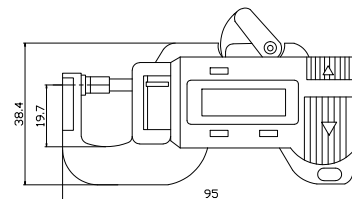
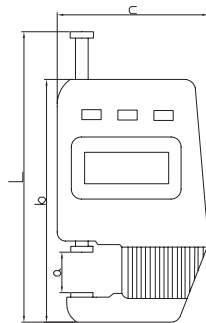
STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

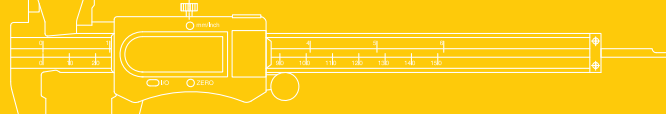
SPECIFICATIONS

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



FEATURES

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

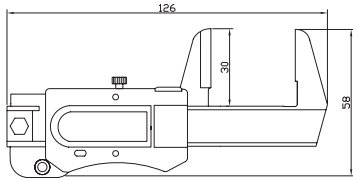
STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

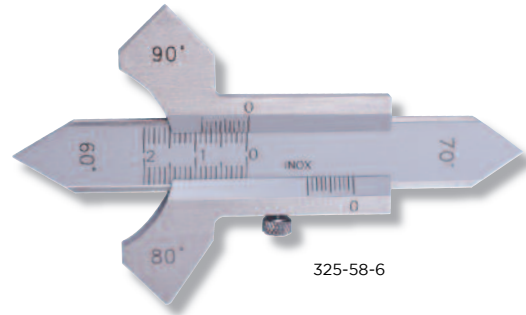
Inch		Metric		Code No.
Range	Accuracy	Range	Accuracy	
0-1.2"	.0015"	0-30mm	±0.03mm	325-36-0

Dimension

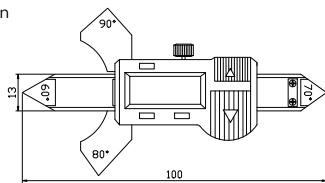


Welding Fillet Gauges

325 Series



Dimension



FEATURES

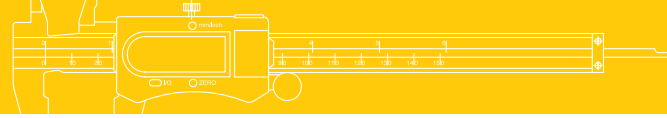
- Resolution:
 - Digital models: .0005" / 0.01mm
 - Mechanical Models: 0.1mm
- Measures the thickness of a weld along the intersecting vector of two right angle welded objects
- Inch/Metric conversion

STANDARD ACCESSORIES

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

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



Hook Type Digital Calipers

325 Series

FEATURES

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



325-05-0

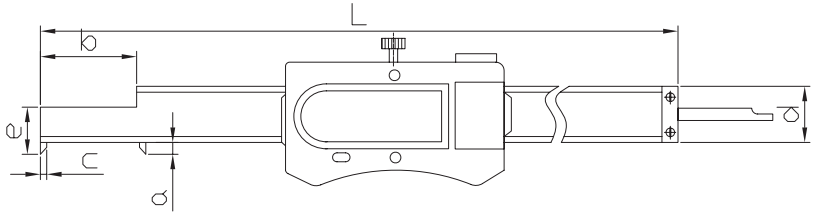
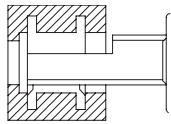
STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual
- Calibration certificate

SPECIFICATIONS

Inch			Metric			
Range	Resolution	Accuracy	Range	Resolution	Accuracy	Code No.
.12-5"	.0005"	±0.01"	3-125mm	0.01mm	±0.03mm	325-05-0
.12-8"	.0005"	±0.01"	3-200mm	0.01mm	±0.03mm	325-08-0
.16-12"	.0005"	±0.015"	4-300mm	0.01mm	±0.04mm	325-12-0

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

Mini-type 3-purpose Digital Calipers

305 Series

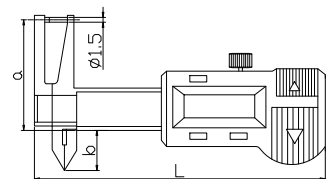
FEATURES

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



305-40-0

Dimension

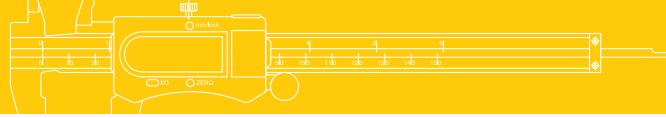


STANDARD ACCESSORIES

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

SPECIFICATIONS

Inch			Metric				L	a	b	Code No.
Range	Resolution	Accuracy	Range	Resolution	Accuracy	L	a	b	Code No.	
0-.6"	.0005"	±0.015"	0-15mm	0.01mm	±0.03mm	77mm	33.2mm	12.5mm	305-40-0	
0-1"	.0005"	±0.015"	0-25mm	0.01mm	±0.03mm	87mm	33.2mm	12.5mm	305-42-0	



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 ABS/INC button
- Units are supplied with the necessary mounting brackets required for most popular installations
- Models are available with horizontal or vertical numeric displays



326-06-5

STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual

SPECIFICATIONS

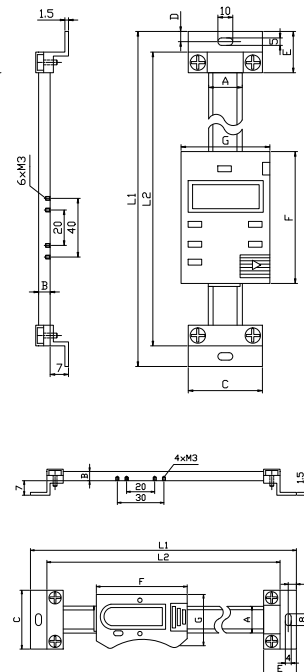
Inch		Metric		Horizontal		Vertical	
Range	Accuracy	Range	Accuracy	Code No.	Code No.	Code No.	Code No.
4"	.001"	100mm	±0.02mm	326-04-5	326-04-0		
6"	.0015"	150mm	±0.03mm	326-06-5	326-06-0		
8"	.0015"	200mm	±0.03mm	326-08-5	326-08-0		
12"	.0015"	300mm	±0.04mm	326-12-5	326-12-0		
18"	.002"	450mm	±0.05mm	326-18-5	326-18-0		
24"	.003"	600mm	±0.08mm	326-24-5	326-24-0		
32"	.004"	800mm	±0.10mm	326-32-5	326-32-0		
40"	.004"	1000mm	±0.10mm	326-40-5	326-40-0		

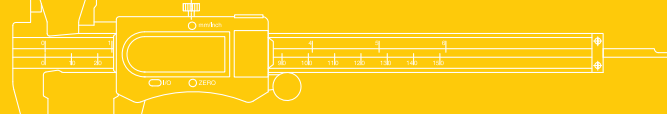
Range	A	B	C	D	E	F	G	L1	L2
	mm	mm	mm	mm	mm	mm	mm	mm	mm
Horizontal									
4"/100mm	16	4	36	6	24	58	34	209	185
6"/150mm	16	4	36	6	24	58	34	259	235
8"/200mm	16	4	36	6	24	58	34	310	286
12"/300mm	16	4	36	6	24	58	34	444	420
18"/450mm	16	4	36	6	24	58	34	-	-
24"/600mm	24	5.5	45	8	32	92	40	782	750
32"/800mm	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



326-18-0

Dimension





Dial Calipers

303 / 304 / 308 Series

FEATURES

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

Aluminum models

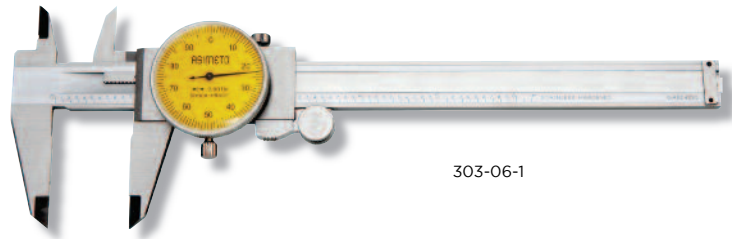
- Sturdy aluminum ergonomic diecast housing can be used without damage in the harshest of manufacturing environments, including situations with hot steel chips
- The dual pinion mechanism offers extra smooth operation

Carbide tipped measuring faces models

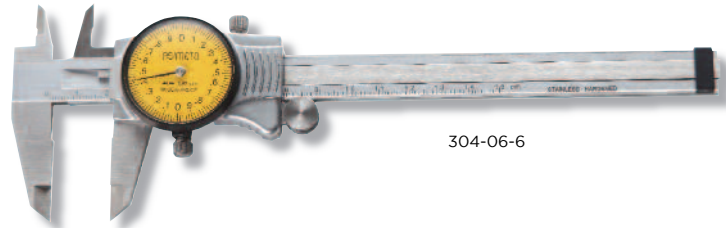
- Both ID & OD measuring surfaces are carbide tipped to increase caliper life by preventing wear

STANDARD ACCESSORIES

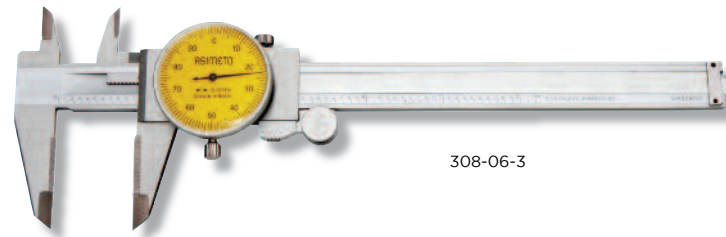
- Warranty card, Instruction manual, Calibration certificate



303-06-1



304-06-6

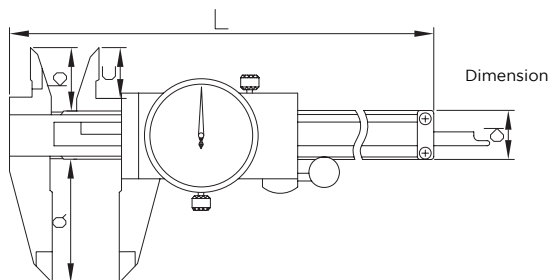


308-06-3

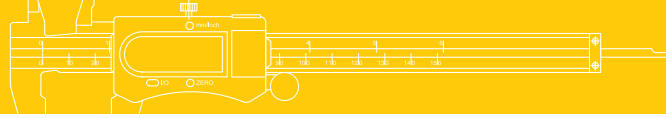
SPECIFICATIONS

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
Carbide Tip models		
0-6"	±.001"	308-06-3
0-8"	±.0015"	308-08-3
0-12"	±.0015"	308-12-3

Metric		Grad.: 0.01mm	Grad.: 0.02mm
Range	Accuracy	Code No.	Code No.
Standard models			
0-150mm	±0.02mm	303-06-0	303-06-2
0-200mm	±0.03mm	303-08-0	303-08-2
0-300mm	±0.04mm	303-12-0	303-12-2
Aluminum dial housing models			
0-150mm	±0.02mm	304-06-4	304-06-6
0-200mm	±0.03mm	304-08-4	304-08-6
0-300mm	±0.04mm	304-12-4	304-12-6
Carbide Tip models			
0-150mm	±0.02mm	308-06-2	-
0-200mm	±0.03mm	308-08-2	-
0-300mm	±0.04mm	308-12-2	-



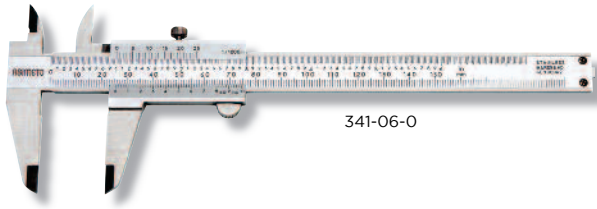
Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-6"/0-150mm	234	40	21	16.5	16
0-8"/0-200mm	290	50	23.5	19	17
0-12"/0-300mm	393	64	24.5	20	17



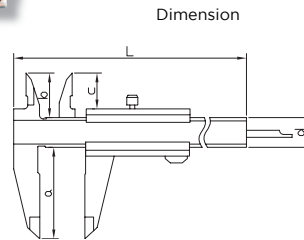
Vernier Calipers

341 / 351 Series

Plain



341-06-0



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

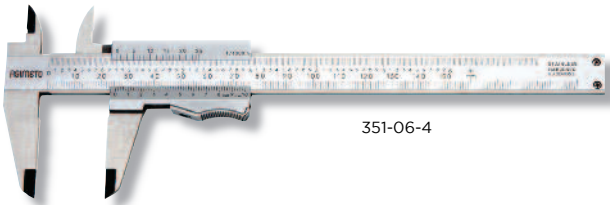
- Warranty card, Instruction manual, Calibration certificate

Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
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	20

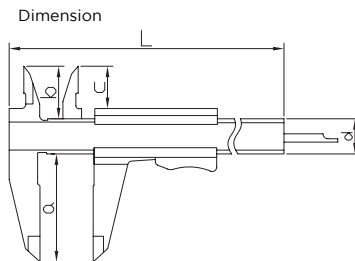
SPECIFICATIONS

Range	Graduation	Range	Graduation	Accuracy	Note	Code No.
Lower	Lower	Upper	Upper			
0-6"	.001"	0-6"	1/128"	±.001"	upper lock	341-06-1
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
0-150mm	0.05mm	0-6"	1/128"	±0.05mm	with round depth bar Φ 1.8mm	341-06-2
0-150mm	0.02mm	0-6"	0.001"	±0.02mm	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

Thumb Clamp



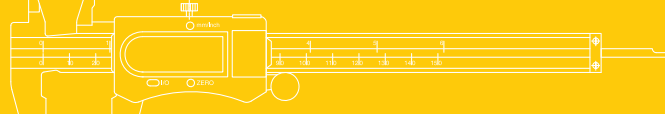
351-06-4



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

SPECIFICATIONS

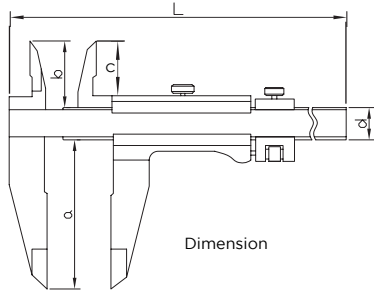
Range	Graduation	Range	Graduation	Accuracy	Note	Code No.
Lower	Lower	Upper	Upper			
0-6"	.001"	0-6"	1/128"	±.001"	-	351-06-1
0-8"	.001"	0-8"	1/128"	±.0015"	-	351-08-1
0-150mm	0.05mm	0-6"	1/128"	±0.05mm	-	351-06-0
0-200mm	0.05mm	0-8"	1/128"	±0.05mm	-	351-08-0
0-150mm	0.05mm	0-6"	1/128"	±0.05mm	with round depth bar Φ 1.8mm	351-06-2
0-150mm	0.02mm	0-6"	0.001"	±0.02mm	-	351-06-4
0-200mm	0.02mm	0-8"	0.001"	±0.03mm	-	351-08-4



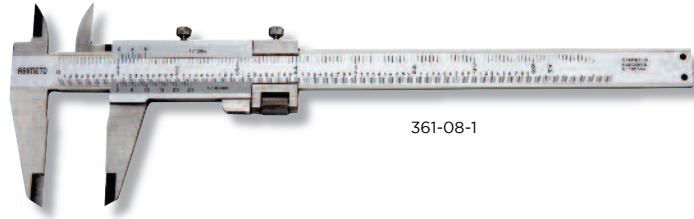
Vernier Calipers

361 / 302 Series

Fine adjustment



Dimension



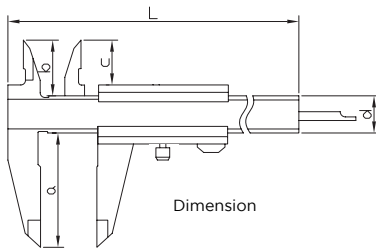
361-08-1

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

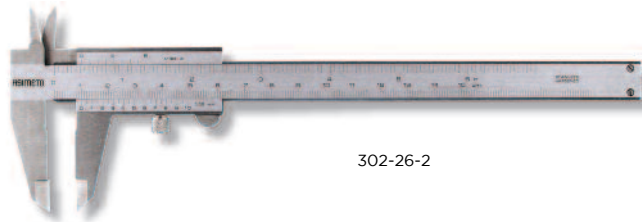
SPECIFICATIONS

Range	Graduation	Range	Graduation	Accuracy	Note	Code No.
Lower	Lower	Upper	Upper			
Inch						
0-5"	.001"	0-5"	1/128"	±.001"	upper lock	361-05-1
0-7"	.001"	0-7"	1/128"	±.0015"	upper lock	361-07-1
0-11"	.001"	0-11"	1/128"	±.0015"	upper lock	361-11-1
Metric						
0-130mm	0.02mm	0-5"	0.001"	±0.02mm	upper lock	361-05-6
0-180mm	0.02mm	0-7"	0.001"	±0.03mm	upper lock	361-07-6
0-280mm	0.02mm	0-11"	0.001"	±0.04mm	upper lock	361-11-6

Modified "V" type beam



Dimension



302-26-2

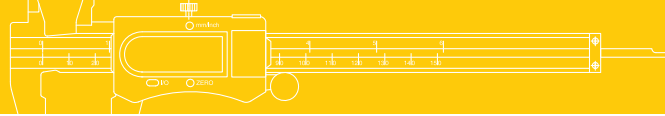
Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-6"/0-150mm	235	40	21	16.5	16

FEATURES

- Designed with increased repeatability by incorporating a "V" slider to beam technology

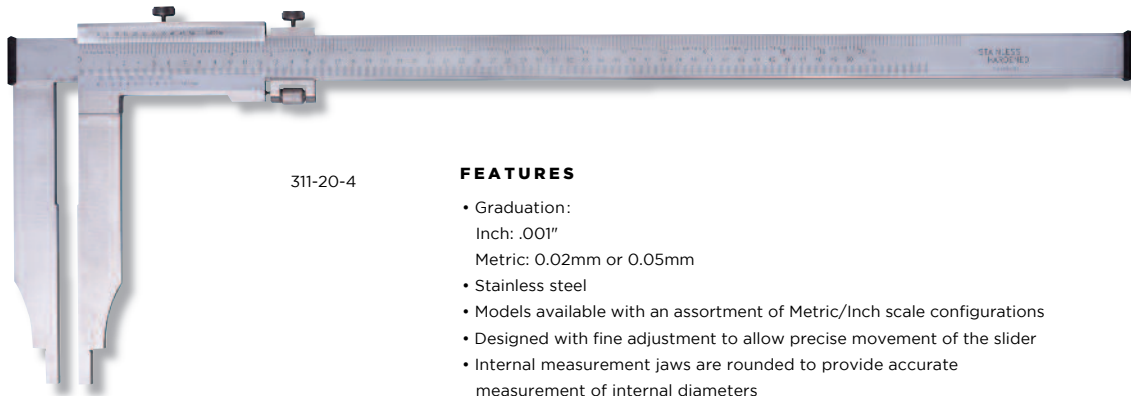
SPECIFICATIONS

Range	Graduation	Range	Graduation	Accuracy	Note	Code No.
Lower	Lower	Upper	Upper			
0-150mm	0-6"	0.05mm	1/128"	±0.05mm	lower locking screw	302-26-0
0-150mm	0-6"	0.02mm	.001"	±0.02mm	lower locking screw	302-26-2



Long Jaw Vernier Calipers

311 Series



311-20-4

FEATURES

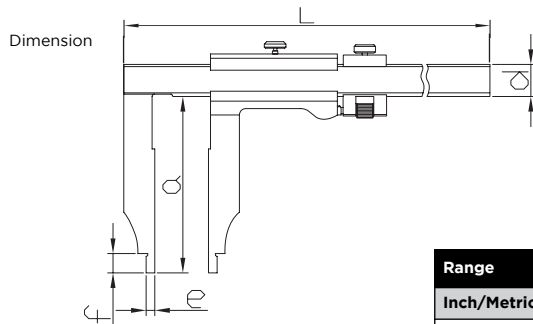
- Graduation:
Inch: .001"
Metric: 0.02mm or 0.05mm
- Stainless steel
- Models available with an assortment of Metric/Inch scale configurations
- Designed with fine adjustment to allow precise movement of the slider
- Internal measurement jaws are rounded to provide accurate measurement of internal diameters
- Minimum internal diameter measurement capability of:
10mm for 300mm/12" range
20mm for over 450mm/18" range

STANDARD ACCESSORIES

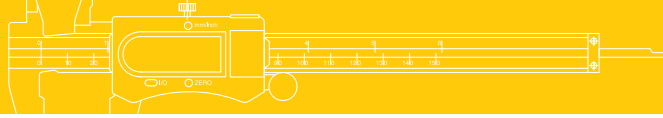
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Range	Graduation	Range	Graduation	Accuracy	Jaw Length	Code No.
Lower	Lower	Upper	Upper			
0-12"	.001"	0-300mm	0.02mm	±0.015"	90mm	311-12-3
0-20"	.001"	0-500mm	0.02mm	±0.020"	200mm	311-20-3
0-30"	.001"	0-750mm	0.02mm	±0.020"	200mm	311-30-3
0-40"	.001"	0-1000mm	0.02mm	±0.030"	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

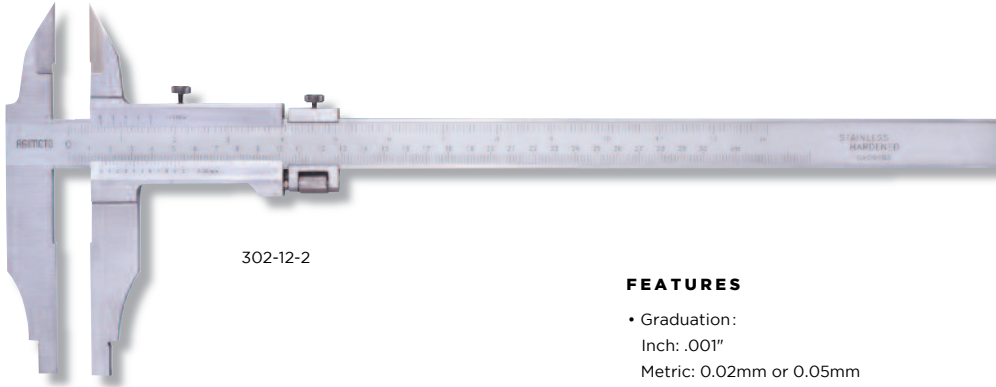


Range	L	a	d	e	f
Inch/Metric	mm	mm	mm	mm	mm
0-12" / 0-300mm	450	90	20	5	12
0-20" / 0-500mm	735	200	30	10	23
0-30" / 0-750mm	985	200	32	10	25
0-40" / 0-1000mm	1235	200	32	10	25



Heavy Duty Vernier Caliper With Upper Knife-edge

302 Series



302-12-2

STANDARD ACCESSORIES

- Warranty card, Instruction manual, Calibration certificate

FEATURES

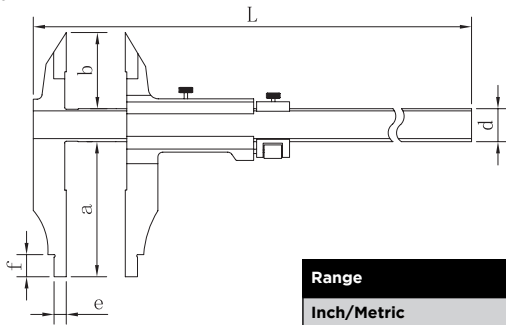
- Graduation:
Inch: .001"
Metric: 0.02mm or 0.05mm
- With upper knife-edge for external diameter measurement
- Designed with fine adjustment to allow precise movement of the slider
- Stainless steel
- Models available with an assortment of Metric/Inch scale configurations
- Internal measurement jaws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

SPECIFICATIONS

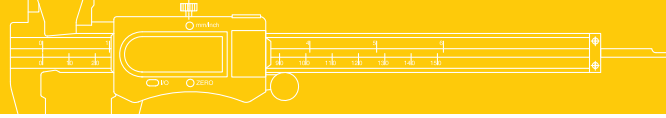
Range	Graduation	Range	Graduation	Accuracy	Jaw Length	Code No.
Lower	Lower	Upper	Upper			
0-12"	.001"	0-300mm	0.02mm	±.0015"	56mm+100mm	302-12-1
0-20"	.001"	0-500mm	0.02mm	±.0020"	67mm+150mm	302-20-1
0-32"	.001"	0-800mm	0.02mm	±.0020"	67mm+150mm	302-32-1
0-40"	.001"	0-1000mm	0.02mm	±.0030"	67mm+150mm	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"	±0.08mm	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 apart from listed ones are available also

Dimension

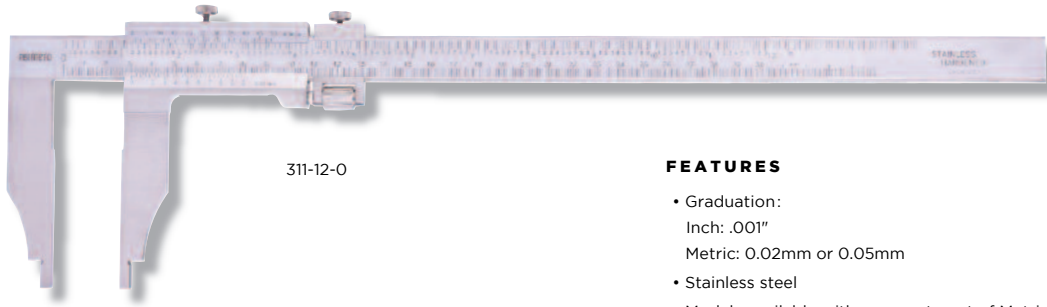


Range	L	a	b	d	e	f
Inch/Metric	mm	mm	mm	mm	mm	mm
0-12"/0-300mm	470	100	56	25	10	18
0-20"/0-500mm	735	150	67	32	10	25
0-32"/0-800mm	1035	150	67	32	10	25



Heavy Duty Vernier Calipers

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

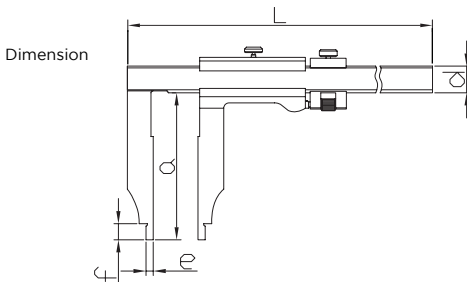
STANDARD ACCESSORIES

- Warranty card, Instruction manual, Calibration certificate

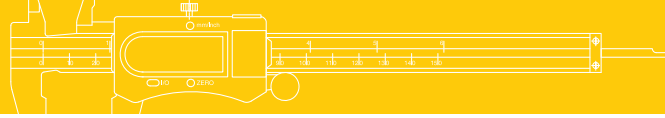
SPECIFICATIONS

Range	Graduation	Range	Graduation	Accuracy	Jaw Length	Code No.
Lower	Lower	Upper	Upper			
0-12"	.001"	0-300mm	0.02mm	±0.015"	75mm	311-12-1
0-18"	.001"	0-450mm	0.02mm	±0.020"	100mm	311-18-1
0-24"	.001"	0-600mm	0.02mm	±0.020"	100mm	311-24-1
0-32"	.001"	0-800mm	0.02mm	±0.020"	150mm	311-32-1
0-40"	.001"	0-1000mm	0.02mm	±0.030"	150mm	311-40-1
0-60"	.001"	0-1500mm	0.02mm	±0.040"	200mm	311-60-1
0-80"	.001"	0-2000mm	0.02mm	±0.050"	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
0-600mm	0.02mm	0-24"	.001"	±0.05mm	100mm	311-24-0
0-800mm	0.02mm	0-32"	.001"	±0.05mm	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
0-600mm	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 apart from listed ones are available also



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	25	10	25
0-24" / 0-600mm	835	100	32	10	25
0-32" / 0-800mm	1035	150	32	10	25
0-40" / 0-1000mm	1235	150	32	10	25
0-60" / 0-1500mm	1820	200	42	10	25
0-80" / 0-2000mm	2270	200	42	10	25



Circle Vernier Calipers

322 Series

FEATURES

- Graduation: 0.1mm
- With one-piece slider
- Made with 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

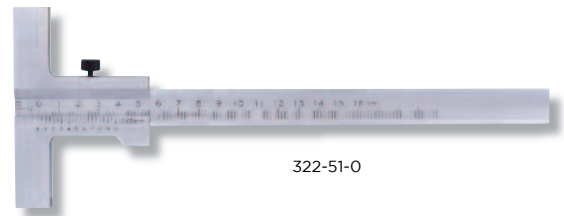
- Graduation: 0.05mm
- Made with stainless steel

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 with 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

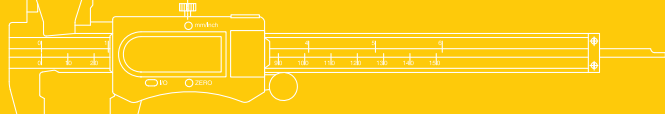
- Warranty card

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



Forester Calipers

322 Series



FEATURES

- Made of aluminium, Plastic handle

SPECIFICATIONS

Range	Graduation	Jaw Length	Code No.
0-500mm	5mm	255mm	322-91-0
0-800mm	5mm	410mm	322-92-0
0-1000mm	5mm	410mm	322-93-0

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".

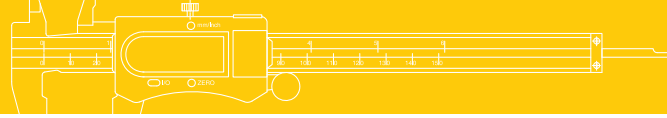
STANDARD ACCESSORIES

- S-wrench
- Warranty card, Calibration certificate

SPECIFICATIONS

Inch	Metric	Inch	Metric		
Range	Accuracy	Range	Accuracy	Code No.	Code No.
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



403-22-0

FEATURES

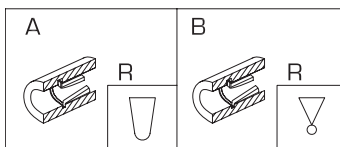
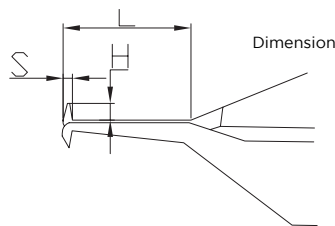
- Resolution: Digital models: .0002" / 0.005mm; Dial models: .0005" / 0.01mm
- Designed to measure internal grooves, and other intricate detailed internal characteristics
- This measuring instrument provides comparison readings and must be set to the nominal dimension using either micrometer or setting rings
- The digital model allows the display housing to be rotated $\pm 170^\circ$

STANDARD ACCESSORIES

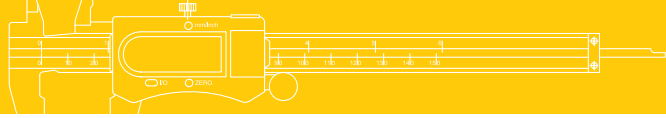
- Battery (Digital models)
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Range	Arm Length	Tipped Length	Accuracy	Dial models		Digital models	
				Type A Code No.	Type B Code No.	Type A Code No.	Type B Code No.
Inch							
.2-.6"	20mm	1.5mm	$\pm 0.008"$	403-11-1	-	400-11-1	-
.4-.8"	25mm	3.0mm	$\pm 0.008"$	403-12-1	403-12-3	400-12-1	400-12-3
.8-1.2"	30mm	6.5mm	$\pm 0.008"$	403-13-1	403-13-3	400-13-1	400-13-3
1.2-1.6"	30mm	9.0mm	$\pm 0.008"$	403-14-1	403-14-3	400-14-1	400-14-3
1.6-2.0"	30mm	9.0mm	$\pm 0.008"$	403-15-1	403-15-3	400-15-1	400-15-3
.2-1.0"	35mm	1.5mm	$\pm 0.0012"$	403-21-1	-	400-21-1	-
.4-1.2"	55mm	3.5mm	$\pm 0.0012"$	403-22-1	403-22-3	400-22-1	400-22-3
.8-1.6"	80mm	6.5mm	$\pm 0.0012"$	403-23-1	403-23-3	400-23-1	400-23-3
1.2-2.0"	80mm	8.5mm	$\pm 0.0012"$	403-24-1	403-24-3	400-24-1	400-24-3
1.6-2.4"	80mm	8.5mm	$\pm 0.0012"$	403-25-1	403-25-3	400-25-1	400-25-3
Metric							
5-15mm	20mm	1.5mm	$\pm 0.02\text{mm}$	403-11-0	-	400-11-0	-
10-20mm	25mm	3.0mm	$\pm 0.02\text{mm}$	403-12-0	403-12-2	400-12-0	400-12-2
20-30mm	30mm	6.5mm	$\pm 0.02\text{mm}$	403-13-0	403-13-2	400-13-0	400-13-2
30-40mm	30mm	9.0mm	$\pm 0.02\text{mm}$	403-14-0	403-14-2	400-14-0	400-14-2
40-50mm	30mm	9.0mm	$\pm 0.02\text{mm}$	403-15-0	403-15-2	400-15-0	400-15-2
5-25mm	35mm	1.5mm	$\pm 0.03\text{mm}$	403-21-0	-	400-21-0	-
10-30mm	55mm	3.5mm	$\pm 0.03\text{mm}$	403-22-0	403-22-2	400-22-0	400-22-2
20-40mm	80mm	6.5mm	$\pm 0.03\text{mm}$	403-23-0	403-23-2	400-23-0	400-23-2
30-50mm	80mm	8.5mm	$\pm 0.03\text{mm}$	403-24-0	403-24-2	400-24-0	400-24-2
40-60mm	80mm	8.5mm	$\pm 0.03\text{mm}$	403-25-0	403-25-2	400-25-0	400-25-2

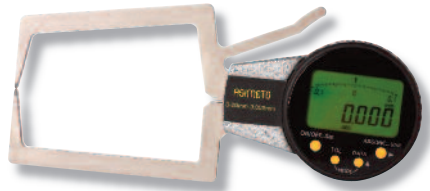


Metric	Inch	Measuring contact					
Range	Range	L	S	H	A(R)	B(D)	
5-15mm	.2-.6"	20mm	1.0mm	1.5mm	0.3mm	/	
10-20mm	.4-.8"	25mm	1.5mm	3.0mm	0.3mm	$\Phi 1.5\text{mm}$	
20-30mm	.8-1.2"	30mm	2.0mm	6.5mm	0.5mm	$\Phi 1.5\text{mm}$	
30-40mm	1.2-1.6"	30mm	2.5mm	9.0mm	0.5mm	$\Phi 1.5\text{mm}$	
40-50mm	1.6-2.0"	30mm	2.5mm	9.0mm	0.5mm	$\Phi 1.5\text{mm}$	
5-25mm	.2-1.0"	35mm	1.0mm	1.5mm	0.3mm	/	
10-30mm	.4-1.2"	55mm	2.0mm	3.5mm	0.5mm	$\Phi 1.5\text{mm}$	
20-40mm	.8-1.6"	80mm	3.0mm	6.5mm	0.5mm	$\Phi 1.5\text{mm}$	
30-50mm	1.2-2.0"	80mm	3.0mm	8.5mm	0.5mm	$\Phi 1.5\text{mm}$	
40-60mm	1.6-2.4"	80mm	3.0mm	8.5mm	0.5mm	$\Phi 1.5\text{mm}$	



External Caliper Gauges

404 / 405 Series



404-21-0



405-11-0

FEATURES

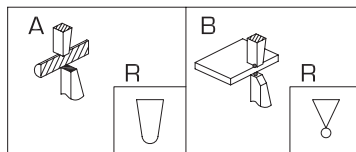
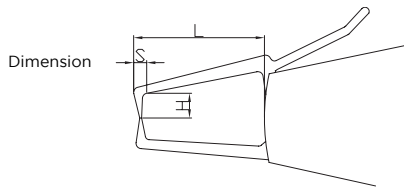
- Resolution:
Digital models: .0002" / 0.005mm; Dial models: .0005" / 0.01mm
- Designed to measure hard to access external work piece characteristics
- This measuring instrument provides comparison readings and must be set to the nominal dimension using either gauge blocks or an external setting master
The digital model allows the display housing to be rotated $\pm 170^\circ$

STANDARD ACCESSORIES

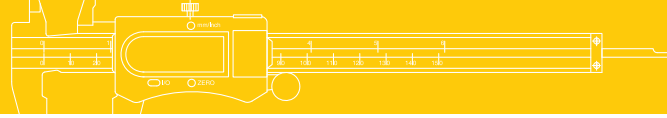
- Battery (Digital models)
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Range	Arm Length	Tipped Length	Accuracy	Dial models		Digital models	
				Type A Code No.	Type B Code No.	Type A Code No.	Type B Code No.
Inch							
0-.4"	20mm	1.5mm	$\pm 0.008"$	405-11-1	405-11-3	404-11-1	404-11-3
.4-.8"	25mm	3.0mm	$\pm 0.008"$	405-12-1	405-12-3	404-12-1	404-12-3
.8-1.2"	30mm	6.5mm	$\pm 0.008"$	405-13-1	405-13-3	404-13-1	404-13-3
1.2-1.6"	30mm	9.0mm	$\pm 0.008"$	405-14-1	405-14-3	404-14-1	404-14-3
1.6-2.0"	30mm	9.0mm	$\pm 0.008"$	405-15-1	405-15-3	404-15-1	404-15-3
0-.8"	35mm	1.5mm	$\pm 0.0012"$	405-21-1	405-21-3	404-21-1	404-21-3
.4-1.2"	55mm	3.5mm	$\pm 0.0012"$	405-22-1	405-22-3	404-22-1	404-22-3
.8-1.6"	80mm	6.5mm	$\pm 0.0012"$	405-23-1	405-23-3	404-23-1	404-23-3
1.2-2.0"	80mm	8.5mm	$\pm 0.0012"$	405-24-1	405-24-3	404-24-1	404-24-3
1.6-2.4"	80mm	8.5mm	$\pm 0.0012"$	405-25-1	405-25-3	404-25-1	404-25-3
Metric							
0-10mm	20mm	1.5mm	$\pm 0.02\text{mm}$	405-11-0	405-11-2	404-11-0	404-11-2
10-20mm	25mm	3.0mm	$\pm 0.02\text{mm}$	405-12-0	405-12-2	404-12-0	404-12-2
20-30mm	30mm	6.5mm	$\pm 0.02\text{mm}$	405-13-0	405-13-2	404-13-0	404-13-2
30-40mm	30mm	9.0mm	$\pm 0.02\text{mm}$	405-14-0	405-14-2	404-14-0	404-14-2
40-50mm	30mm	9.0mm	$\pm 0.02\text{mm}$	405-15-0	405-15-2	404-15-0	404-15-2
0-20mm	35mm	1.5mm	$\pm 0.03\text{mm}$	405-21-0	405-21-2	404-21-0	404-21-2
10-30mm	55mm	3.5mm	$\pm 0.03\text{mm}$	405-22-0	405-22-2	404-22-0	404-22-2
20-40mm	80mm	6.5mm	$\pm 0.03\text{mm}$	405-23-0	405-23-2	404-23-0	404-23-2
30-50mm	80mm	8.5mm	$\pm 0.03\text{mm}$	405-24-0	405-24-2	404-24-0	404-24-2
40-60mm	80mm	8.5mm	$\pm 0.03\text{mm}$	405-25-0	405-25-2	404-25-0	404-25-2

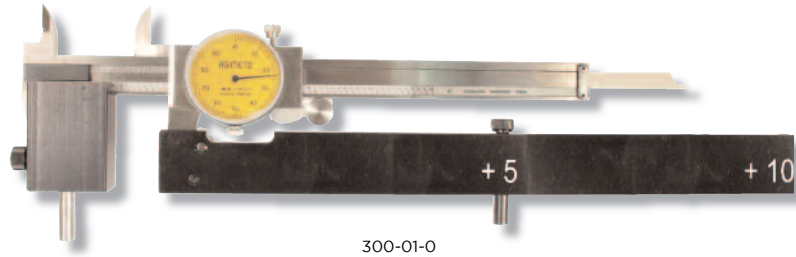


Metric Range	Inch Range	Measuring contact					
		L	S	H	A(R)	B(D)	
0-10mm	0-.8"	40mm	3mm	8mm	0.5mm	$\Phi 1.5\text{mm}$	
10-20mm	.4-.8"	40mm	3mm	8mm	0.5mm	$\Phi 1.5\text{mm}$	
20-30mm	.8-1.2"	40mm	3mm	8mm	0.5mm	$\Phi 1.5\text{mm}$	
30-40mm	1.2-1.6"	40mm	3mm	8mm	0.5mm	$\Phi 1.5\text{mm}$	
40-50mm	1.6-2.0"	40mm	3mm	8mm	0.5mm	$\Phi 1.5\text{mm}$	
0-20mm	0-.8"	80mm	6.5mm	25mm	0.75mm	$\Phi 1.5\text{mm}$	
10-30mm	.4-1.2"	80mm	6.5mm	25mm	0.75mm	$\Phi 1.5\text{mm}$	
20-40mm	.8-1.6"	80mm	6.5mm	25mm	0.75mm	$\Phi 1.5\text{mm}$	
30-50mm	1.2-2.0"	80mm	6.5mm	25mm	0.75mm	$\Phi 1.5\text{mm}$	
40-60mm	1.6-2.4"	80mm	6.5mm	25mm	0.75mm	$\Phi 1.5\text{mm}$	



Caliper Extender Attachments

300 Series



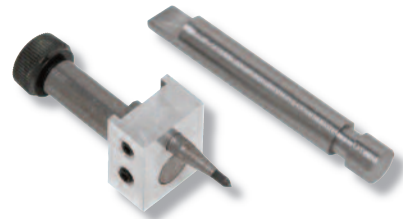
300-01-0



300-01-1



300-01-4



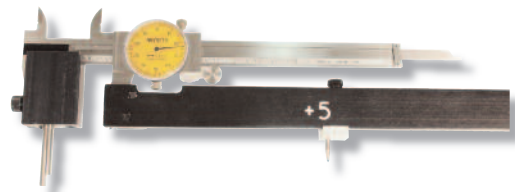
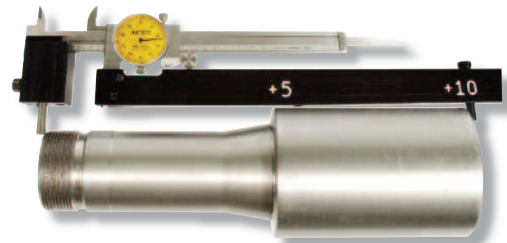
300-01-5

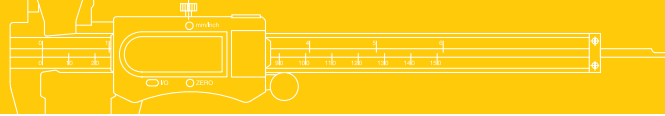
FEATURES

- A unique Caliper accessory that extends the range of your 6" Caliper up to 91"
- Allows both inside and outside measurements of up to 51" with your 6" Dial, Vernier, or Digital Caliper. These Extender Kits allow you to perform measuring operations without the expense of purchasing a stand alone Caliper, which could cost thousands of dollars! For the occasional measuring situation, these Kits provide the answer at a reasonable cost
- Extension bars are manufactured from high grade Aluminum, and black anodized with white numerals for clarity and protection
- The 91" model is clear anodized, with white numerals
- All mounting hardware and calibration rods are included
- Complete instructions accompany this easy to use kit. Choose the model that fits the range of measurements you need
- Caliper not included

SPECIFICATIONS

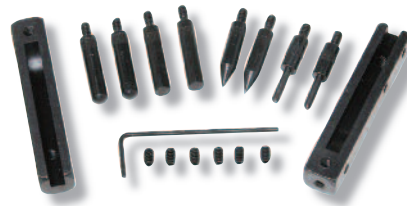
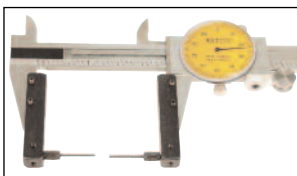
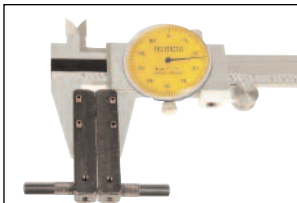
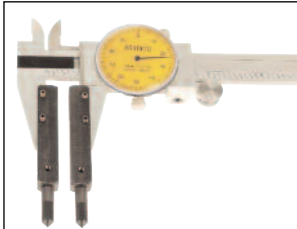
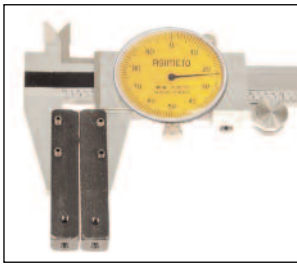
Description	Tolerance	Code No.
26" Extension Kit	±.003"	300-01-0
36" Extension Kit	±.003"	300-02-0
51" Extension Kit	±.004"	300-03-0
71" Extension Kit	±.005"	300-04-0
91" Extension Kit	±.006"	300-05-0
Accessory		
1/2" Projection Pins (pair)		300-01-1
1" Projection Pins (pair)		300-01-2
1-1/2" Projection Pins (pair)		300-01-3
Centerline Gauge Pins		300-01-4
Layout Kit		300-01-5





Universal Caliper Accessory Kit

300 Series



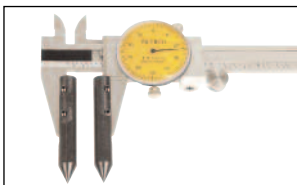
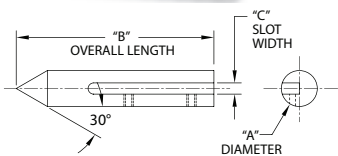
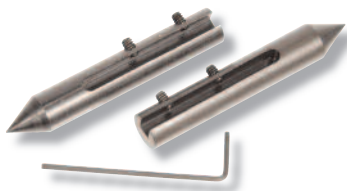
FEATURES

- The original caliper jaw attachment accessory.
- The square bodies attach to the jaws of any 4", 6", 8" Caliper. Threaded holes are located in the front, both sides, and the bottoms of the bodies, allowing the use of the points on any side.
- Measures slots, grooves, shoulders, holes, pockets, and takes ID and OD measurements.
- Steel, Black Oxide finish

SPECIFICATIONS

Code No.: 300-11-0		
Kit contains:	QTY	Description
Universal Caliper Bodies	1 pair	3/8" square x 2" length. Slot for Caliper jaws is .147 wide. 4-40 holes for set screws fasten the body to the caliper jaw
Flat Points	1 pair	3/16 diameter x .810 length. 4-48 threads
Cone Points	1 pair	3/16 diameter x .810 length. 4-48 threads
Stem Points	1 pair	3/16 body diameter, .084 stem diameter x .820 length. 4-48 threads
Ball Points	1 pair	3/16 diameter x .810 length. 4-48 threads

Centerline Gauges

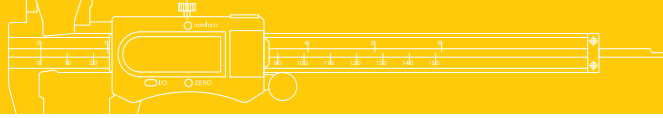


FEATURES

- Measures centerline distances.
- Easily attaches to Dial, Vernier, and Digital Calipers.
- 60 Degree Conical Points.
- Hardened Steel with Black Oxide finish.
- Attaches in seconds with Set Screws.
- Supplied in High Impact Tubes with Allen Wrench.
- User friendly instructions.

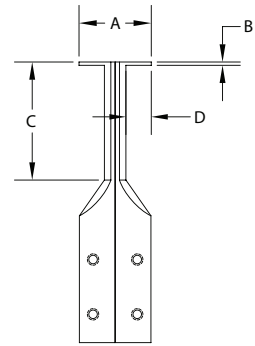
SPECIFICATIONS

used	Min Measuring	A	B	C	Code No.
4", 6", and 8" Calipers	3/8"	.375"	2-5/16"	.127"	300-13-0
12" Calipers	1/2"	.500"	2.762"	.144"	300-14-0



Groove Measurement Caliper Jaws

300 Series

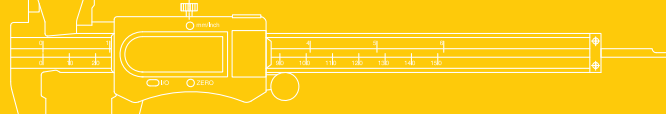


FEATURES

- Fits on any vernier, dial or digital 6" caliper.
- Enables the measurement of hard to reach work piece characteristics such as internal grooves.
- Measuring range of 0.200 to 6.000 inches.
- Designed with an alignment pin ensuring correct alignment of the measuring surfaces.
- Manufactured in the USA with black oxide finish.
- Supplied in a plastic fitted case.

SPECIFICATIONS

Min Measurement (A)	Width of Feet (B)	Max Depth (C)	Groove Depth (D)	Code No.
.200"	.015"	.400"	.050"	300-21-0
.300"	.015"	.625"	.070"	300-22-0
.600"	.025"	1.000"	.200"	300-23-0
.725"	.040"	1.250"	.255"	300-24-0
External Measurement	.024"	3.000"	.375"	300-25-0
Set	Description			
3 Pair Set	Includes Max. Depth of .400, .625, & 1"			300-20-3
5 Pair Set	Includes All Jaws Pictured Above			300-20-5

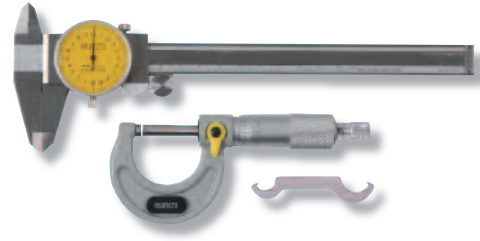


Tool Kits

960 Series

Kit #1 Analog

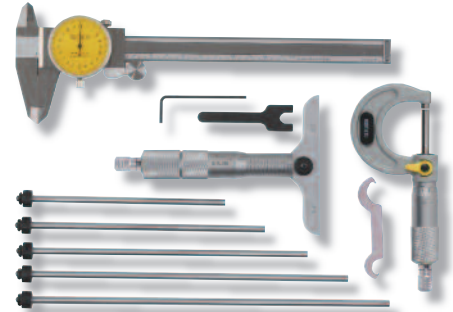
	Inch	Metric
Code No.	960-01-1	960-01-0
Individual Description	Individual Code No.	Individual Code No.
0-6" x .001", 0-150mm x 0.02mm Dial Caliper	303-06-1	303-06-2
0-1" x .0001", 0-25mm x 0.01mm Outside Mic.	101-01-3	101-01-0



960-01-0

Kit #2 Analog Plus

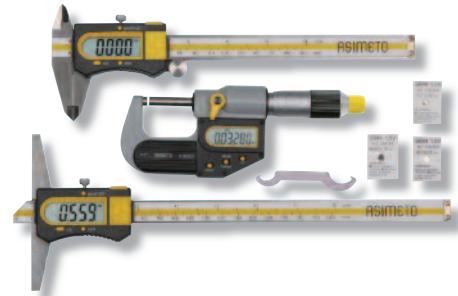
	Inch	Metric
Code No.	960-02-1	960-02-0
Individual Description	Individual Code No.	Individual Code No.
0-6" x .001", 0-150mm x 0.02mm Dial Caliper	303-06-1	303-06-2
0-1" x .0001", 0-25mm x 0.01mm Outside Mic.	101-01-3	101-01-0
0-6" x .001", 0-150mm x 0.01mm Depth Mic.	201-06-1	201-06-0



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	307-06-1	307-06-0
0-1" x .00005", 0-25mm x 0.001mm Digital Outside Mic.	106-01-5	106-01-4
0-8" x .0005", 0-200mm x 0.01mm Digital Depth Caliper	327-08-0	327-08-0



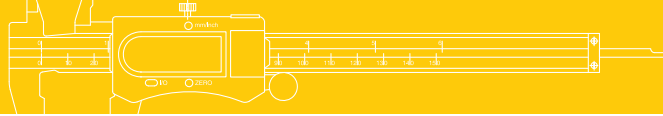
960-03-1

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	307-06-1	307-06-0
0-1" x .00005", 0-25mm x 0.001mm Digital Outside Mic.	106-01-5	106-01-4



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	501-73-1	501-08-0

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	501-78-1	501-02-0

Kit #12 Magnetic Adj. Base and Test Indicator

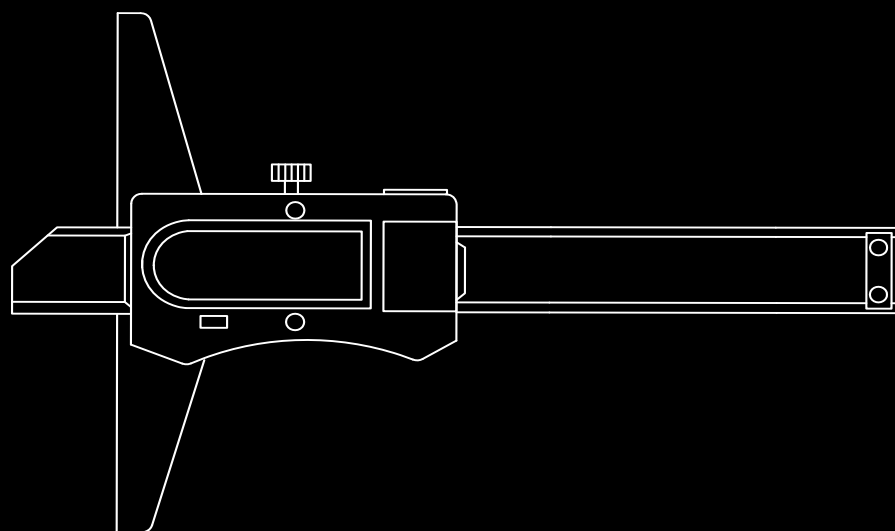
	Inch	Metric
Code No.	960-12-1	960-12-0
Individual Description	Individual Code No.	Individual Code No.
Magnetic Stand with 6" Rods and Universal Clamp / Fine Adjustment	601-02-1	601-02-0
Horiz. Dial Test Indicator .03" x .0005", 0.8mm x 0.01mm	501-73-1	501-08-0

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	501-78-1	501-02-0

Depth & Height Gauges

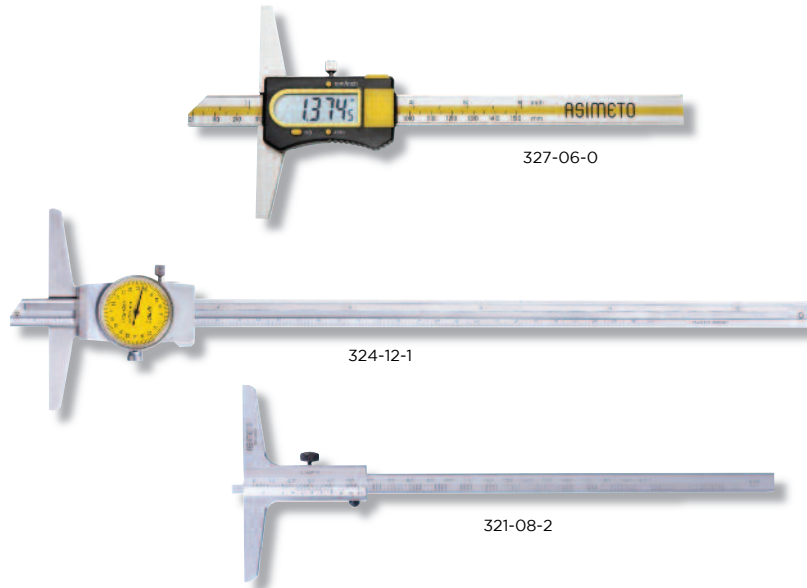
- 77 Depth Calipers
- 78 Depth Calipers With Single Hook
- 79 Depth Calipers With Double Hook
- 80 Depth Base Attachments For Calipers
- 81 Thickness Gauges
- 82 Depth Gauges
- 82 Digital Depth Gauges
- 83 Single Beam Digital Height Gauges With Hand Wheel
- 83 Digital Height Gauges
- 84 Double Beam Digit Counter Height Gauges With Hand Wheel
- 84 Double Beam Digital Height Gauges With Hand Wheel
- 85 Vernier Height Gauges





Depth Calipers

321 / 324 / 327 Series



FEATURES

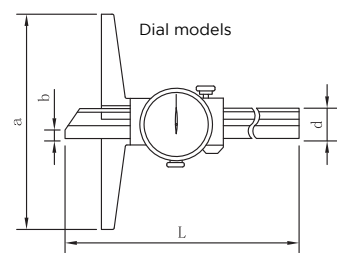
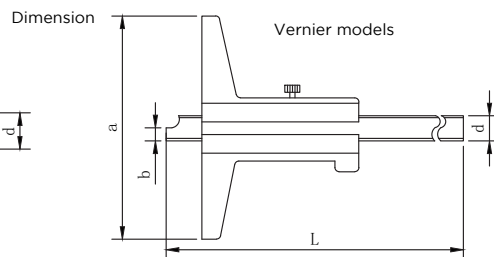
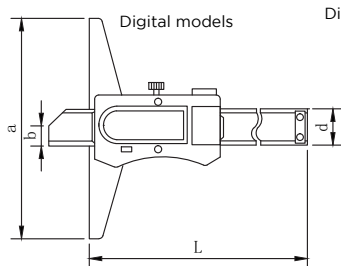
- Resolution:
 - Digital models: .0005" / 0.01mm
 - Vernier models: .001" / 0.02mm or 0.05mm
 - Dial models: .001" / 0.02mm
- Both of the measuring surfaces are precision ground for accuracy
- Models are available in Vernier, Dial or Digital designs

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.		
Digital models									
0-6"	.0005"	±.001"	0-150mm	0.01mm	±0.02mm	-	327-06-0		
0-8"	.0005"	±.0015"	0-200mm	0.01mm	±0.03mm	-	327-08-0		
0-12"	.0005"	±.0015"	0-300mm	0.01mm	±0.04mm	-	327-12-0		
Vernier models									
0-6"	.001"	±.001"	0-150mm	0.02mm	±0.02mm	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		
Dial models									
0-6"	.001"	±.001"	0-150mm	0.02mm	±0.02mm	324-06-1	324-06-0		
0-8"	.001"	±.0015"	0-200mm	0.02mm	±0.03mm	324-08-1	324-08-0		
0-12"	.001"	±.0015"	0-300mm	0.02mm	±0.04mm	324-12-1	324-12-0		



Range	Digital models				Vernier models				Dial models				
	Inch/Metric	L	a	b	d	L	a	b	d	L	a	b	d
0-6"/0-150mm		230mm	100mm	6mm	14.5mm	250mm	100mm	5mm	10mm	236mm	100mm	4.6mm	13.5mm
0-8"/0-200mm		280mm	100mm	6mm	14.5mm	300mm	100mm	5mm	10mm	286mm	100mm	4.6mm	13.5mm
0-12"/0-300mm		380mm	100mm	6mm	14.5mm	400mm	100mm	5mm	10mm	386mm	100mm	4.6mm	13.5mm



Depth Calipers With Single Hook

322 Series

FEATURES

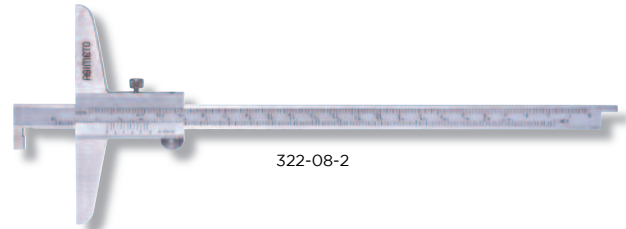
- Resolution:
 - Digital models: .0005" / 0.01mm
 - Vernier models: .001" / 0.05mm
- The stationary measuring surface on the beam protrudes at right angles (measuring hook) to allow for the measurement of depths, internal groove positions, and other intricate characteristics
- Measurements can be taken 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

STANDARD ACCESSORIES

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



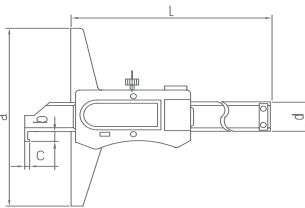
322-06-5



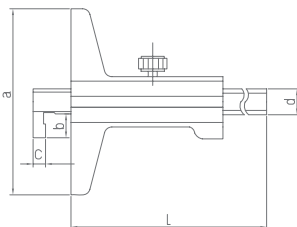
322-08-2

SPECIFICATIONS

Inch		Metric			Inch		Metric
Range	Resolution	Accuracy	Range	Resolution	Accuracy	Code No.	Code No.
Digital models							
0-6"	.0005"	±.001"	0-150mm	0.01mm	±0.02mm	-	322-06-5
0-8"	.0005"	±.0015"	0-200mm	0.01mm	±0.03mm	-	322-08-5
0-12"	.0005"	±.0015"	0-300mm	0.01mm	±0.04mm	-	322-12-5
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



Digital models



Vernier models

Dimension

Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-6"/0-150mm	230	100	5	2	14.5
0-8"/0-200mm	280	100	5	2	14.5
0-12"/0-300mm	380	100	5	2	14.5

Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-6"/0-150mm	250	100	10	5	10
0-8"/0-200mm	300	100	10	5	10
0-12"/0-300mm	400	100	10	5	10

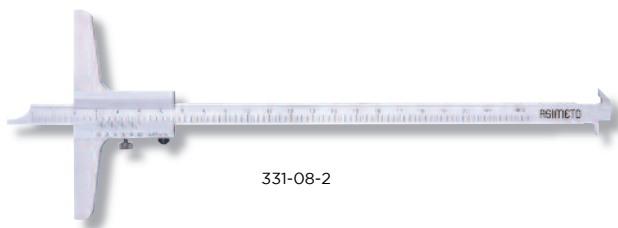


Depth Calipers With Double Hook

323 / 331 Series



323-06-5



331-08-2

FEATURES

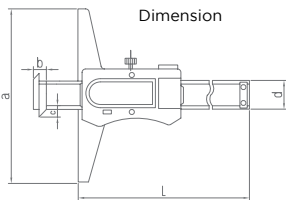
- Resolution:
 - Digital models: .0005" / 0.01mm
 - Vernier models: .001" / 0.05mm
- The hooked measuring surfaces are used for measurement of internal or external grooves and other intricate work piece characteristics
- The main beam on the Vernier models is double sided with dual scales, and is able 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

STANDARD ACCESSORIES

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

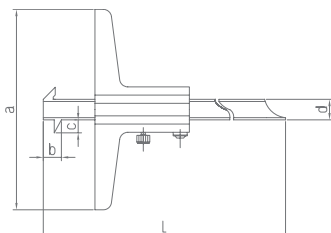
SPECIFICATIONS

Inch			Metric			Inch		Metric	
Range	Resolution	Accuracy	Range	Resolution	Accuracy	Code No.	Code No.		
Digital models									
0-6"	.0005"	±.001"	0-150mm	0.01mm	±0.02mm	-			323-06-5
0-8"	.0005"	±.0015"	0-200mm	0.01mm	±0.03mm	-			323-08-5
0-12"	.0005"	±.0015"	0-300mm	0.01mm	±0.04mm	-			323-12-5
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



Digital models

Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-6"/0-150mm	230	100	5	2	14.5
0-8"/0-200mm	280	100	5	2	14.5
0-12"/0-300mm	380	100	5	2	14.5



Vernier models

Range	L	a	b	c	d
Inch/Metric	mm	mm	mm	mm	mm
0-6"/0-150mm	250	100	5	7	10
0-8"/0-200mm	300	100	5	7	10
0-12"/0-300mm	400	100	5	7	10



Depth Base Attachment for Calipers

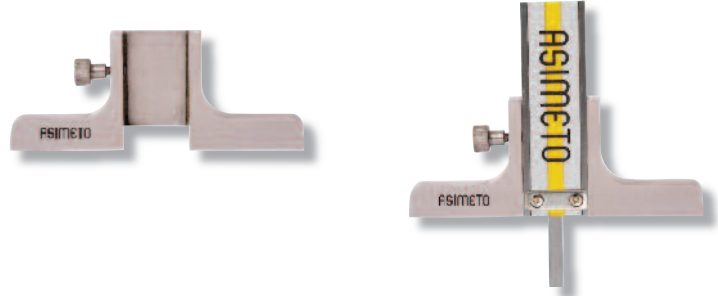
327 Series

FEATURES

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

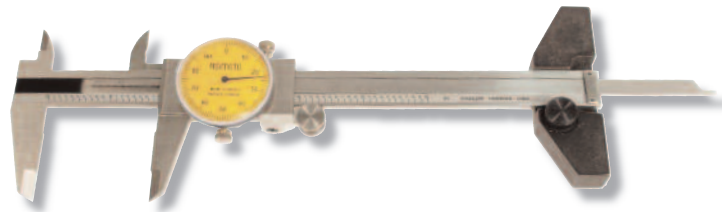
SPECIFICATIONS

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



Depth Base Attachments for Calipers

327 Series



FEATURES

- This handy attachment transforms your Dial, Vernier, or Digital Caliper into a depth measurement device, without the expense of standalone Depth Micrometers.
- Fits all brands of Calipers
- Precision Ground Base
- Screw Locking Clamp
- Cold Rolled Steel
- Case Hardened .005/.010 deep
- Black Oxide coated

SPECIFICATIONS

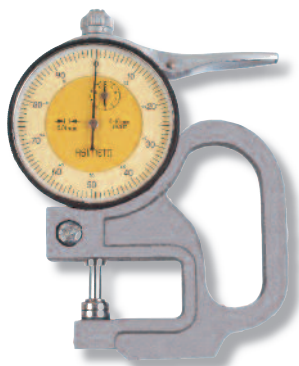
Description	Base Width	Base Height	Slot Width	Code No.
3" Base - Fits 4-6" Calipers	1/2"	3/4"	.700"	327-65-3
4" Base - Fits 4-6" Calipers	1/2"	3/4"	.700"	327-65-4
5" Base - Fits 12" Calipers	1/2"	3/4"	.865"	327-65-5





Thickness Gauges

495 / 491 Series



491-01-0



495-02-0

FEATURES

- Resolution:
 - Digital models: .0005" or .0001" / 0.01mm or 0.001mm
 - Dial models: .001" / 0.01mm
- 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

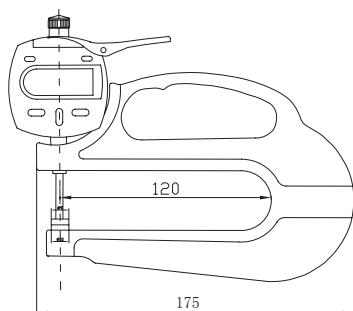
SPECIFICATIONS

Digital models

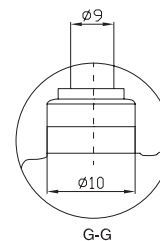
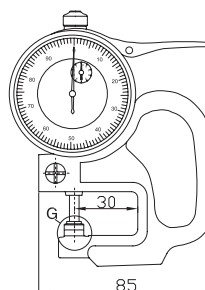
Inch			Metric				Deep Throat	Code No.
Range	Resolution	Accuracy	Range	Resolution	Accuracy			
0-0.4"	.0005"	±.001"	0-10mm	0.01mm	±0.015mm	30mm	495-01-0	
0-0.4"	.0005"	±.001"	0-10mm	0.01mm	±0.015mm	120mm	495-02-0	
0-0.4"	.00005"	±.0005"	0-10mm	0.001mm	±0.01mm	30mm	495-01-3	
0-0.4"	.00005"	±.0005"	0-10mm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

Dial models

Inch		Metric		Deep Throat	Inch		Metric	
Range	Accuracy	Range	Accuracy		Code No.	Code No.		
0-0.4"	±.0001"	0-10mm	±0.015mm	30mm	491-01-1	491-01-0		
0-0.4"	±.0001"	0-10mm	±0.015mm	120mm	491-02-1	491-02-0		



Dimension





Depth Gauges

473 / 475 Series

FEATURES

- Resolution:
Digital models: .0005" or .0001" / 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



475-04-4



473-04-0

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	63.5 x 17mm	473-04-0
0-100mm	0.01mm	0.02mm	10mm	10 pcs	101.6 x 17mm	473-04-2

Digital Depth Gauges

321 Series

FEATURES

- Resolution: .0005" / 0.01mm
- The origin point is retained throughout the life of the battery
- Inch/Metric conversion
- Spherical end anvil

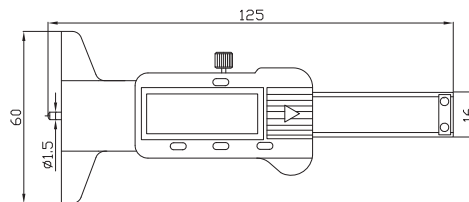
STANDARD ACCESSORIES

- Battery
- Warranty card, Calibration certificate

SPECIFICATIONS



321-01-0



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



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 on any position
- Carbide tipped scriber provided
- Manual power On/Off

STANDARD ACCESSORIES

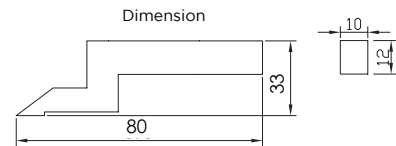
- Carbide tipped scriber with clamp, Battery
- Warranty card, Instruction manual, Calibration certificate

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



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

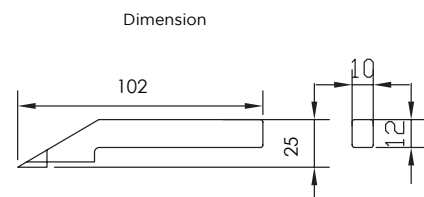
- Carbide tipped scriber with clamp, Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Inch		Metric		Code No.
Range	Accuracy	Range	Accuracy	
0-12"	±.0015"	0-300mm	±0.04mm	625-12-0
0-24"	±.0020"	0-600mm	±0.07mm	625-24-0
0-40"	±.0040"	0-1000mm	±0.10mm	625-40-0



625-24-0





Double Beam Digit Counter Height Gauges with Hand Wheel 623 Series



623-18-1

FEATURES

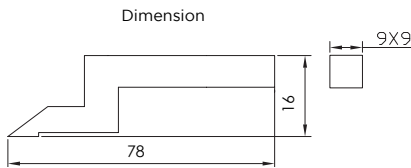
- Graduation: .001" / 0.01mm.
- Position is displayed by a combination of the digit counter and the dial
- Hand wheel design for both coarse and fine adjustments
- Digit counter graduation: Inch .1", Metric 1mm
- The digit counters provide bi-directional positioning and the capability of setting zero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

STANDARD ACCESSORIES

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

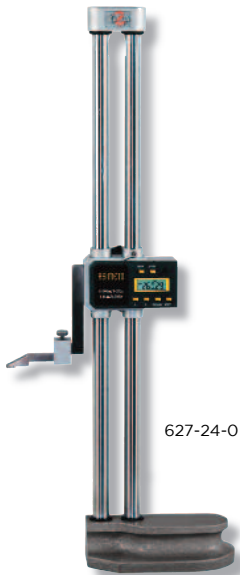
SPECIFICATIONS

Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Code No.	Code No.	Code No.	Code No.
0-12"	±.0015"	0-300mm	±0.04mm	623-12-1	623-12-0	623-12-0	623-12-0
0-18"	±.0020"	0-450mm	±0.05mm	623-18-1	623-18-0	623-18-0	623-18-0
0-24"	±.0020"	0-600mm	±0.07mm	623-24-1	623-24-0	623-24-0	623-24-0
0-40"	±.0030"	0-1000mm	±0.07mm	623-40-1	623-40-0	623-40-0	623-40-0



Double Beam Digital Height Gauges with Hand Wheel

627 Series



627-24-0

FEATURES

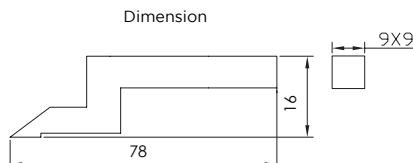
- Resolution: .001" / 0.01mm
- Designed with hand wheel micro-adjustable rack and pinion for precision positioning
- Can be used with a test indicator and holder (on page 114) for precise measurement
- Zero setting at any position
- Manual power On/Off
- Metric/Inch system conversion
- Large LCD display

STANDARD ACCESSORIES

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

SPECIFICATIONS

Inch		Metric		Inch		Metric	
Range	Accuracy	Range	Accuracy	Code No.	Code No.	Code No.	Code No.
0-12"	±.0015"	0-300mm	±0.04mm	627-12-0	627-12-0	627-12-0	627-12-0
0-18"	±.0015"	0-450mm	±0.04mm	627-18-0	627-18-0	627-18-0	627-18-0
0-24"	±.0020"	0-600mm	±0.05mm	627-24-0	627-24-0	627-24-0	627-24-0





Vernier Height Gauges

621 Series

FEATURES

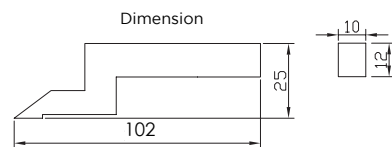
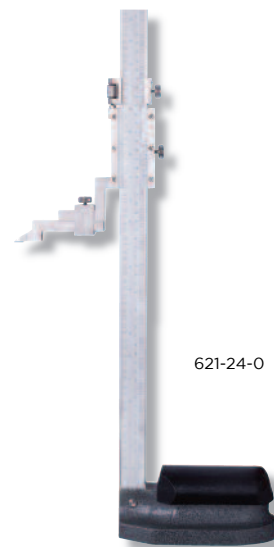
- Graduation:
Inch: .001" or 1/128"
Metric: 0.02mm or 0.05mm
- The fine-adjustment allows the slider to be precisely positioned
- Matte chrome finish
- Stainless steel design
- The base is designed with a thermal heat isolation hand grip

STANDARD ACCESSORIES

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

SPECIFICATIONS

Inch		Metric				Code No.
Range	Graduation	Accuracy	Range	Graduation	Accuracy	
0-12"	1/128"	±.0015"	0-300mm	0.05mm	±0.05mm	621-12-0
0-24"	1/128"	±.0020"	0-600mm	0.05mm	±0.10mm	621-24-0
0-12"	.001"	±.0015"	0-300mm	0.02mm	±0.04mm	621-12-2
0-24"	.001"	±.0020"	0-600mm	0.02mm	±0.05mm	621-24-2



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

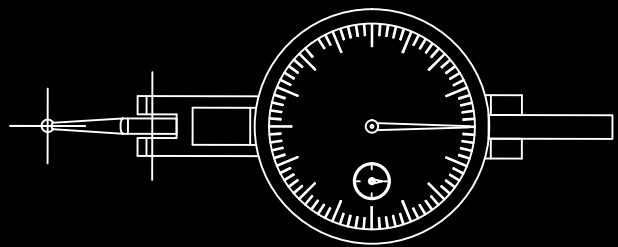
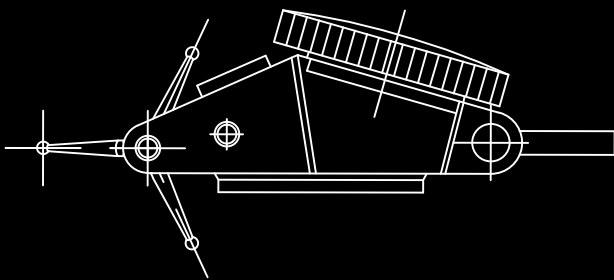
Swivel Clamps



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

Indicators & Dial Gauges

88	IP67 Digital Indicators_SYLVAC SYSTEM
89	Digital Indicators
90	Digital Indicators With Analog Display
91	AGD1 Dial Indicators
92	AGD2 Dial Indicators
95	Crank Shaft Gauge
95	Dial Comparators
96	Dial Indicators - One revolution for Error-free Reading
96	Straight Metric Indicator Stem Bushing
97	Back Plunger Type Dial Indicators
97	Back Plunger Dial Indicator Sets
98	Indicator Points
102	Adapters
103	Dial Indicator Extension Rods
103	Indicator Probe Holders
104	Test Indicators
106	Extended Range Dial Test Indicators
107	Extended Range Dial Test Indicator Sets
108	Digital Test Indicators
108	Digital Radius Gauge
109	Float N Lock Positioners
109	Centering Indicators
110	Zero Set Holder
110	Zero Set Universal Attachment
111	Axial Support Bracket
111	Double-Jointed Dovetail Holder
111	Surface Gauges
112	Spring-Loaded Tension Clamps
112	Clamps with Dovetails
113	Inside/Outside Diameter Groove Gauges
113	Dial Indicator Depth Bases
113	Dial Holders
113	Universal Dovetail Indicator Holders
114	Replacement Tips For Test Indicator
118	Optional Accessories for Asimeto Dial Test Indicators
119	CMM Accessories
123	Dial Gauge Stands
123	Precision Granite Stands
124	Magnetic Bases





ASIMETO Digital Indicator

Features:





Digital Indicators

405 Series



405-95-1



Battery



405-01-0

FEATURES

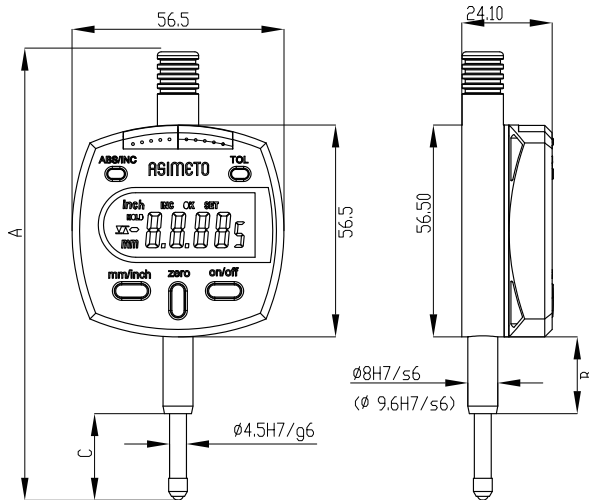
- Resolution:
Inch: .0005"; .00005"
Metric: 0.01mm; 0.001mm
- The maximum, minimum, or runout value can be displayed during measurement.
- Tolerance measurement feature allows for the upper and lower tolerance for maximum and minimum.
- Inch/Metric and ABS/INC conversion
- Flat back (attached) and lug back supplied
- Ø8mm stem diameter for metric models
Ø3/8" stem diameter for inch models

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"	±.0008"	0-12.5mm	0.01mm	±0.02mm	405-95-1	405-95-0		
0-1"	.0005"	±.0012"	0-25mm	0.01mm	±0.02mm	405-01-1	405-01-0		
0-2"	.0005"	±.0012"	0-50mm	0.01mm	±0.02mm	405-02-1	405-02-0		
0-.5"	.00005"	±.0002"	0-12.5mm	0.001mm	±0.005mm	405-95-5	405-95-4		
0-1"	.00005"	±.0002"	0-25mm	0.001mm	±0.005mm	405-01-5	405-01-4		
0-2"	.00005"	±.0002"	0-50mm	0.001mm	±0.005mm	405-02-5	405-02-4		



Range	A	B	C
	mm	mm	mm
0-0.5"/0-12.5mm	122	26	24
0-1"/0-25mm	174	47	41
0-2"/0-50mm	248	71	61



Digital Indicators With Analog Display

406 Series

FEATURES

- Resolution: .00005" / 0.002mm
- Absolute measurement
- 360 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



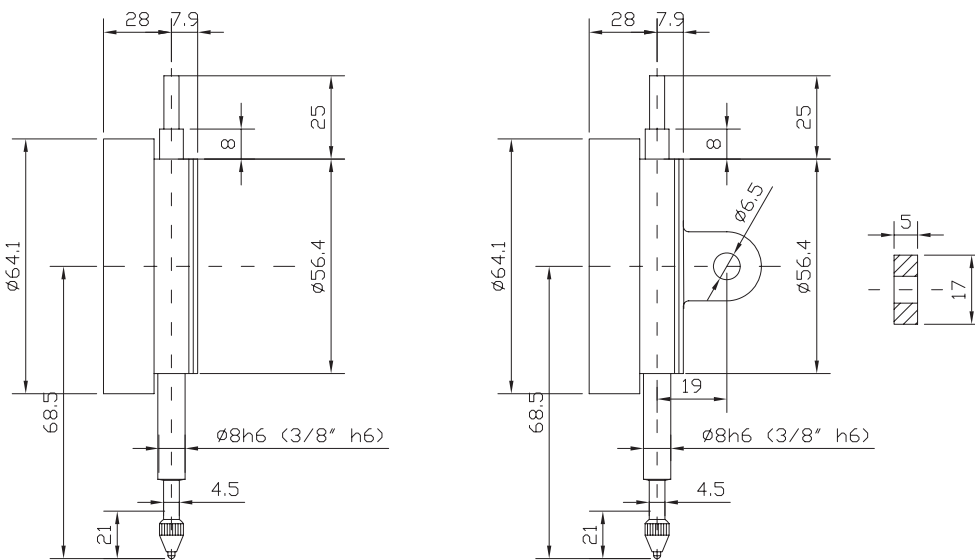
406-05-1

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"	±0.0003"	6.35mm	0.002mm	±0.006mm	406-25-1	406-25-0		
0-.5"	.00005"	±0.0003"	12.5mm	0.002mm	±0.008mm	406-05-1	406-05-0		
0-1"	.00005"	±0.0006"	25mm	0.002mm	±0.015mm	406-01-1	406-01-0		





AGD1 Dial Indicators

401 Series

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



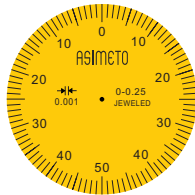
401-06-1



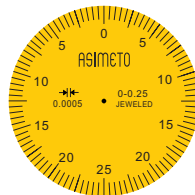
401-05-2

SPECIFICATIONS

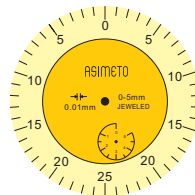
Range	Graduation	Range / Rev.	Dial reading	Accuracy	Code No.
Stem diameter Ø3/8"					
.25"	.001"	.1"	0-100	±.001"	401-06-1
.25"	.001"	.1"	0-50-0	±.001"	401-06-3
.25"	.0005"	.05"	0-25-0	±.0005"	401-06-5
3mm	0.01mm	0.5mm	0-50	±0.02mm	401-03-1
5mm	0.01mm	0.5mm	0-50	±0.02mm	401-05-1
5mm	0.01mm	0.5mm	0-25-0	±0.02mm	401-05-3
Stem diameter Ø8mm					
3mm	0.01mm	0.5mm	0-50	0.014mm	401-03-0
5mm	0.01mm	0.5mm	0-50	0.016mm	401-05-0
5mm	0.01mm	0.5mm	0-25-0	0.016mm	401-05-2



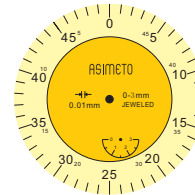
401-06-3



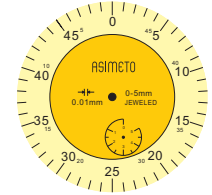
401-06-5



401-05-2
401-05-3

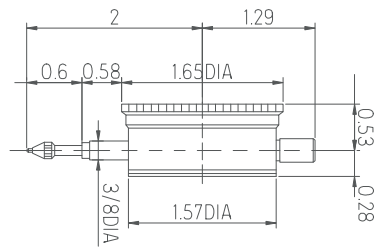


401-03-0
401-03-1

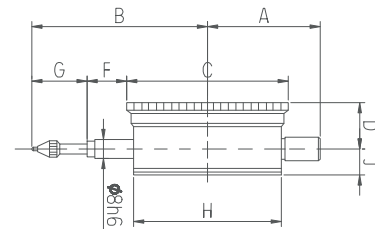


401-05-0
401-05-1

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"					
.05"	.0001"	.01"	0-100	±.0007"	402-01-1
.05"	.0001"	.01"	0-50-0	±.0007"	402-01-3
.25"	.001"	.1"	0-100	±.002"	402-06-1
.25"	.001"	.1"	0-50-0	±.002"	402-06-3
.25"	.0005"	.05"	0-25-0	±.0015"	402-06-5
.50"	.001"	.1"	0-100	±.002"	402-12-1
.50"	.001"	.1"	0-50-0	±.002"	402-12-3
.50"	.0005"	.05"	0-50	±.002"	402-12-5
1"	.001"	.1"	0-100	±.002"	402-26-1
1"	.001"	.1"	0-50-0	±.002"	402-26-3
1"	.0005"	.05"	0-50	±.002"	402-26-5
2"	.001"	.1"	0-100	±.004"	402-51-1
3mm	0.01mm	1mm	0-100	±0.03mm	402-03-1
3mm	0.01mm	1mm	0-50-0	±0.03mm	402-03-3
5mm	0.01mm	1mm	0-100	±0.03mm	402-05-1
5mm	0.01mm	1mm	0-50-0	±0.03mm	402-05-3
10mm	0.01mm	1mm	0-100	±0.03mm	402-10-1
10mm	0.01mm	1mm	0-50-0	±0.03mm	402-10-3
20mm	0.01mm	1mm	0-50-0	±0.04mm	402-20-1
25mm	0.01mm	1mm	0-50-0	±0.04mm	402-25-3
Stem Diameter Ø8mm					
1mm	0.001mm	0.2mm	0-200	0.005mm	402-01-0
1mm	0.001mm	0.2mm	0-100-0	0.005mm	402-01-2
3mm	0.01mm	1mm	0-100	0.014mm	402-03-0
3mm	0.01mm	1mm	0-50-0	0.014mm	402-03-2
5mm	0.01mm	1mm	0-100	0.016mm	402-05-0
5mm	0.01mm	1mm	0-50-0	0.016mm	402-05-2
10mm	0.01mm	1mm	0-100	0.02mm	402-10-0
10mm	0.01mm	1mm	0-50-0	0.02mm	402-10-2
20mm	0.01mm	1mm	0-50-0	0.025mm	402-20-0
20mm	0.01mm	1mm	0-100	0.025mm	402-20-2
25mm	0.01mm	1mm	0-50-0	0.035mm	402-25-0
25mm	0.01mm	1mm	0-100	0.035mm	402-25-2
30mm	0.01mm	1mm	0-100	0.035mm	402-30-0
30mm	0.01mm	1mm	0-50-0	0.035mm	402-30-2
50mm	0.01mm	1mm	0-100	0.035mm	402-50-0
100mm	0.01mm	1mm	0-100	0.050mm	402-00-0
Shock Proof. Stem Diameter Ø8mm					
5mm	0.01mm	1mm	0-100	0.016mm	402-05-4
10mm	0.01mm	1mm	0-100	0.02mm	402-10-8
20mm	0.01mm	1mm	0-100	0.025mm	402-20-8
IP54 Water Proof Series					
10mm (Stem Dia. Ø8mm)	0.01mm	1mm	0-100	0.02mm	402-10-4
0.4" (Stem Dia. Ø3/8")	0.001"	0.1"	0-100	±0.002"	402-26-7
0.4" (Stem Dia. Ø3/8")	0.0005"	0.05"	0-50	±0.0015"	402-26-9



402-10-0



402-26-5

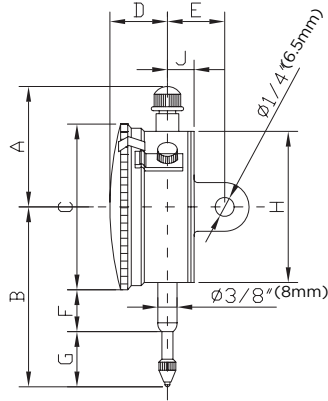


402-10-4

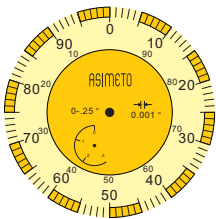


AGD2 Dial Indicators

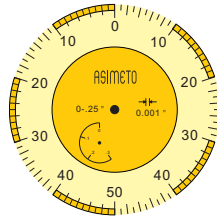
402 Series



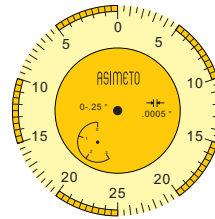
Range	A	B	C	D	E	F	G	H	J
Inch	inch	inch	inch	inch	inch	inch	inch	inch	inch
0-.05"	1.76	2.39	2.28	0.64	0.76	0.69	0.56	2.11	0.32
0-.25"	1.48	2.54	2.28	0.64	0.76	0.69	0.71	2.11	0.32
0-.5"	1.48	2.74	2.28	0.64	0.76	0.69	0.91	2.11	0.32
0-1"	1.48	3.21	2.28	0.64	0.76	0.69	1.38	2.11	0.32
0-2"	4.73	5.5	2.28	0.7	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



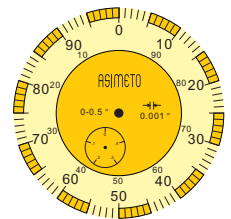
402-06-1



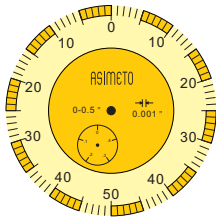
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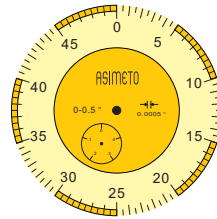
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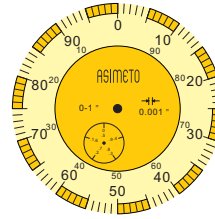
402-12-1



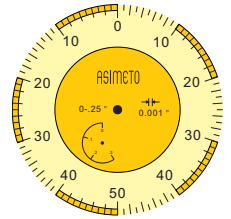
402-12-3



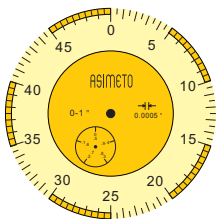
402-12-5



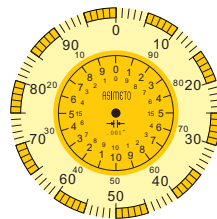
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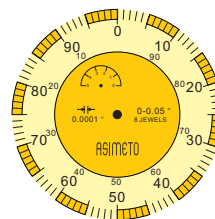
402-26-3



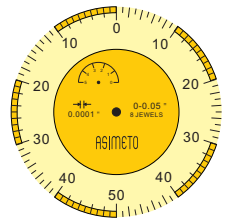
402-26-5



402-51-1



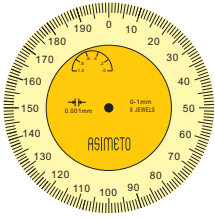
402-01-1



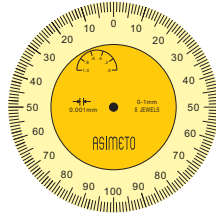
402-01-3



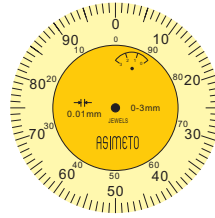
AGD2 Dial Indicators



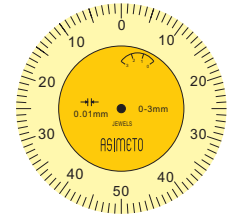
402-01-0



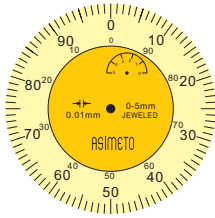
402-01-2



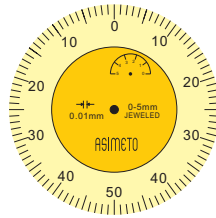
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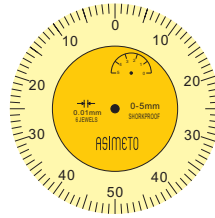
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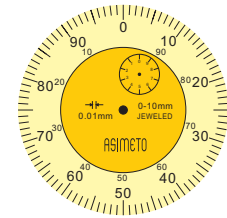
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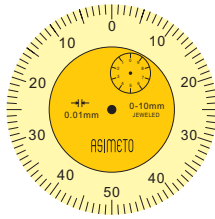
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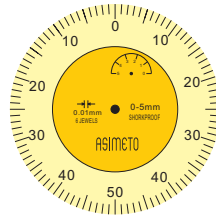
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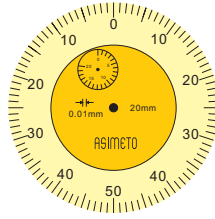
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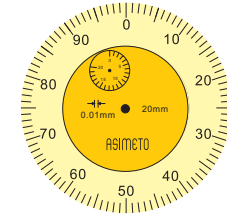
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402-10-3



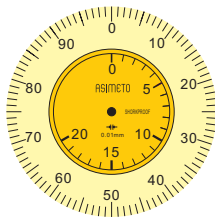
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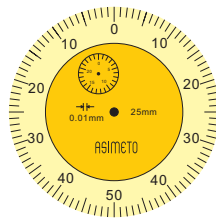
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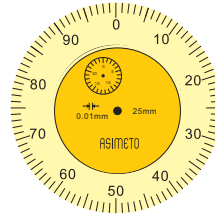
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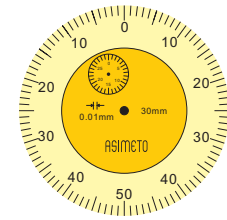
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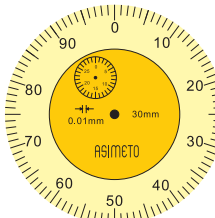
402-25-0
402-25-3



402-25-2



402-30-2



402-30-0



Crank Shaft Gauge

469 Series

FEATURES

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

STANDARD ACCESSORIES

- Rod, Anvil
- Warranty card, Calibration certificate

SPECIFICATIONS

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



Dial Comparator

422 Series

FEATURES

- Resolution: 0.001mm
- High Accuracy
- Jeweled and shock proof
- Water and dust resistant design
- With 8mm stem diameter

STANDARD ACCESSORIES

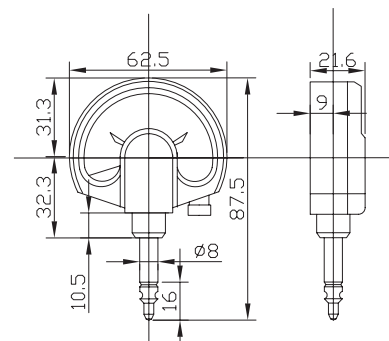
- Spindle lifting cable
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

Range	Resolution	Dial reading	Accuracy	Code No.
±0.05mm	0.001mm	50-0-50	±0.0012mm	422-21-0



422-21-0





Dial Indicators - One revolution for Error-free Reading

422 Series

FEATURES

- Graduation: 0.01mm
- AGD2 series, dial face dia. $\varnothing 2.20''/\varnothing 58\text{mm}$
- 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 $\varnothing 8\text{mm}$ stem diameter

STANDARD ACCESSORIES

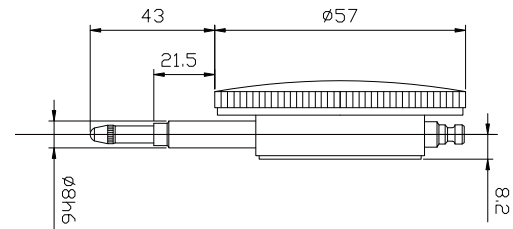
- Warranty card, Calibration certificate

SPECIFICATIONS

Range	Graduation	Dial reading	Accuracy	Code No.
0.8mm	0.01mm	40-0-40	$\pm 0.009\text{mm}$	422-01-0



422-01-0



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

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



422-11-1

SPECIFICATIONS

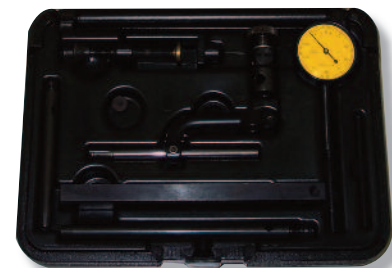
Range	Graduation	Accuracy	Range / Rev.	Dial Dia.	Stem diameter	Dial reading	Code No.
Inch							
.1"	.001"	±0.001"	.1"	1.6"	Ø3/8"	0-100	422-11-1
.2"	.001"	±0.001"	.1"	1.6"	Ø3/8"	0-100	422-12-1
Metric							
1mm	0.01mm	±0.015mm	1mm	58mm	Ø8mm	0-100	422-11-2
3mm	0.01mm	±0.015mm	1mm	58mm	Ø8mm	0-100	422-12-2
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.
0-0.1"	0.001"	±0.001"	0-50-0	422-15-1
0-0.1"	0.001"	±0.001"	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				
0-0.1"	0.001"	±0.001"	0-50-0	422-15-7
0-0.1"	0.001"	±0.001"	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



Ball Indicator Points

477 Series

FEATURES

- Precision contact points for use on standard travel dial indicators.
- Both tungsten carbide and ruby have extremely hard and smooth measuring surfaces.
- Fit all AGD Group 1, 2, 3 and 4 indicators.

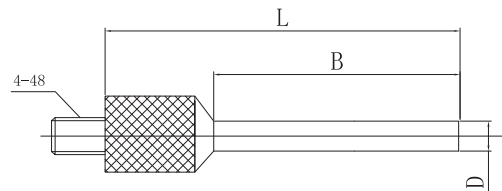


SPECIFICATIONS

Ball Diameter (mm)	Length	Body Diameter (in)	Ball Material	Code No. (4-48 Threads)	Code No. (M2.5 Threads)
2	1/4"	.187	Carbide	477-00-1	477-00-0
2	1/2"	.187	Carbide	477-01-1	477-01-0
2	3/4"	.187	Carbide	477-02-1	477-02-0
2	1	.187	Carbide	477-03-1	477-03-0
3	1/4"	.187	Carbide	477-04-1	477-04-0
3	1/2"	.187	Carbide	477-05-1	477-05-0
3	3/4"	.187	Carbide	477-06-1	477-06-0
3	1	.187	Carbide	477-07-1	477-07-0
4	1/4"	.187	Carbide	477-08-1	477-08-0
4	1/2"	.187	Carbide	477-09-1	477-09-0
4	3/4"	.187	Carbide	477-10-1	477-10-0
4	1	.187	Carbide	477-11-1	477-11-0
2	1/4"	.187	Ruby	477-12-1	477-12-0
2	1/2"	.187	Ruby	477-13-1	477-13-0
2	3/4"	.187	Ruby	477-14-1	477-14-0
2	1	.187	Ruby	477-15-1	477-15-0
3	1/4"	.187	Ruby	477-16-1	477-16-0
3	1/2"	.187	Ruby	477-17-1	477-17-0
3	3/4"	.187	Ruby	477-18-1	477-18-0
3	1	.187	Ruby	477-19-1	477-19-0
4	1/4"	.187	Ruby	477-20-1	477-20-0
4	1/2"	.187	Ruby	477-21-1	477-21-0
4	3/4"	.187	Ruby	477-22-1	477-22-0
4	1	.187	Ruby	477-23-1	477-23-0

Flat Carbide Needle 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 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



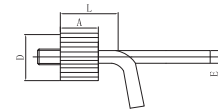
Single Stem

FEATURES

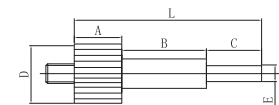
- Each point is carefully manufactured of Stainless steel.
- 4 - 48 Threads for use in AGD 1, 2, 3, 4 indicators.

SPECIFICATIONS

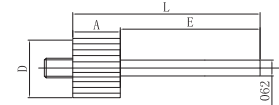
Type	D	A	E	L	C	B	Code No.
Bent Stem	7/32	5/16	1/16	7/16	N/A	N/A	477-01-7
Double Stem	7/32	5/16	1/64	.697	.118	.24	477-02-7
Double Stem	7/32	1/4	0.023	.960	.1	.585	477-03-7
Double Stem	7/32	1/4	0.023	.960	.235	.47	477-04-7
Single Stem	3/16	3/16	1-5/32	1-5/32	N/A	N/A	477-05-7



Bent Stem



Double Stem



Single Stem



Ball Tip Dial Indicator Points

477 Series



FEATURES

- Grade 25 chrome alloy steel balls.
- Use only as an indicator point and not for sizing or gauging applications where side pressure would be present.

SPECIFICATIONS

Ball Diameter	Stem Length	Major Stem Diameter	Minor Stem Diameter	Thread	Code No.
0.0310"	0.600"	0.156"	0.025"	4-48	477-01-9
0.0460"	0.71"	0.156"	0.040"	4-48	477-02-9
0.062"	0.71"	0.156"	0.058"	4-48	477-03-9
0.0780"	0.83"	0.156"	0.058"	4-48	477-04-9
0.0938"	0.83"	0.156"	0.100"	4-48	477-05-9
0.1250"	0.80"	0.156"	0.100"	4-48	477-06-9
0.1562"	0.80"	0.156"	0.100"	4-48	477-07-9
0.1562"	0.80"	0.156"	0.156"	M2.5	477-08-9
0.1870"	0.375"	0.156"	0.218"	4-48	477-09-9
0.2188"	0.375"	0.156"	0.218"	4-48	477-10-9
0.2500"	0.250"	0.218"	0.218"	4-48	477-11-9
0.2812"	0.250"	0.218"	0.218"	4-48	477-12-9
0.3125"	0.250"	0.218"	0.218"	4-48	477-13-9
0.3438"	0.250"	0.218"	0.218"	4-48	477-14-9
0.3750"	0.250"	0.218"	0.218"	4-48	477-15-9
0.4060"	0.250"	0.218"	0.218"	4-48	477-16-9
0.4060"	0.250"	0.218"	0.218"	M2.5	477-17-9
0.4370"	0.250"	0.218"	0.218"	4-48	477-18-9
0.4680"	0.250"	0.218"	0.218"	4-48	477-19-9
0.5000"	0.250"	0.218"	0.218"	4-48	477-20-9
0.5310"	0.250"	0.218"	0.218"	4-48	477-21-9
0.5625"	0.250"	0.312"	0.312"	4-48	477-22-9
0.5937"	0.250"	0.312"	0.312"	4-48	477-23-9
0.6250"	0.250"	0.312"	0.312"	4-48	477-24-9
0.6250"	0.250"	0.312"	0.312"	M2.5	477-25-9
0.6560"	0.250"	0.312"	0.312"	4-48	477-26-9
0.687"	0.250"	0.312"	0.312"	4-48	477-27-9
0.7180"	0.250"	0.312"	0.312"	4-48	477-28-9
0.7500"	0.250"	0.312"	0.312"	4-48	477-29-9
0.7812"	0.250"	0.312"	0.312"	4-48	477-30-9
0.8125"	0.250"	0.312"	0.312"	4-48	477-31-9
0.8750"	0.250"	0.5"	0.5"	4-48	477-32-9
0.9375"	0.250"	0.5"	0.5"	4-48	477-33-9
1.0000"	0.250"	0.5"	0.5"	4-48	477-34-9
1.0625"	0.250"	0.5"	0.5"	4-48	477-35-9
1.1250"	0.250"	0.5"	0.5"	4-48	477-36-9
1.1785"	0.250"	0.5"	0.5"	4-48	477-37-9
1.2500"	0.250"	0.5"	0.5"	4-48	477-38-9



Dial Indicator Contact Point Set

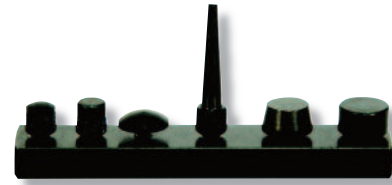
477 Series



477-10-8



477-14-8



477-06-8

FEATURES

- A top quality contact assortment for the professionally equipped dial indicator. Includes the following contacts, secured in a machined ring suitable for workbench or flat storage.
- Thread: 4-48.

SPECIFICATIONS

10 PCS Sets Code No.: 477-10-8		
Individual Description	Quantity	Code No.
3/8" CNC Qualified Roller Bearing	1	477-26-1
1/2" CNC Qualified Roller Bearing	1	477-27-1
3MM Ruby Tip x 1/2" long	1	477-28-1
Flat Steel Point 7/32" diameter X 1/4" long	1	477-29-1
Flat Steel Point 7/32" diameter X 1/2" long	1	477-30-1
Flat Steel Point 7/32" diameter X 3/4" long	1	477-31-1
Flat Steel Point 7/32" diameter X 1-1/4" long	1	477-32-1
Flat Contact 1/4" wide	1	477-33-1
Flat Contact 1/2" wide	1	477-34-1
.060 Steel Ball Tip, 5/16" long	1	477-35-1

6 PCS Sets Code No.: 477-06-8		
Individual Description	Quantity	Code No.
.220" Convex Point	1	477-60-1
.323" Convex Point	1	477-61-1
.394" Convex Point	1	477-62-1
.323" Flat Points	1	477-63-1
.394" Flat Points	1	477-64-1
.984" Taper Point	1	477-65-1

14 PCS Sets Code No.: 477-14-8		
Individual Description	Quantity	Code No.
3/8" Ground Flat Bottom Contact, 3/8" Long	1	477-40-1
1/2" Ground Flat Bottom Contact, 3/8" Long	1	477-41-1
1/2" Button Contact, Steel Black Oxide	1	477-42-1
3/8" Button Contact, Steel Black Oxide	1	477-43-1
1/2" Long 90 Degree Cone Point Contact, Steel Black Oxide	1	477-44-1
1/16" Ball Contact, 1/4" Long, Steel Black Oxide	1	477-45-1
5/8" Long Tapered Contact, Steel Black Oxide	1	477-46-1
Button Contact, 13/64" Dia X 5/32" Long, Steel Black Oxide	1	477-47-1
Shock Absorbing Contact Point	1	477-48-1
9/32" Long Cone Point, Steel Hard, Black Oxide	1	477-49-1
1" Long Polished Radius Point, Steel Hard Black Oxide	1	477-50-1
3/4" Long Polished Radius Point, Steel Black Oxide	1	477-51-1
1/2" Long Polished Radius Point, Steel Black Oxide	1	477-52-1
1/4" Long Polished Radius Point, Steel Black Oxide	1	477-53-1



Dial Indicator Contact Point Set

477 Series

FEATURES

- The most popular Indicator points, including Flat, Ball, Cone, and Stems.
- Fits all AGD 1,2,3 and 4 style drop indicators.
- All points have 4-48 Thread and are Steel with Black Oxide Plating.

SPECIFICATIONS

22 PCS Set Code No.: 477-22-8	
Individual Description	Quantity
Flat Point 7/32" Dia X .175 Long	1
Flat Point 7/32" Dia X .250 Long	1
Flat Point 7/32" Dia X .380 Long	1
Flat Point 7/32" Dia X .500 Long	1
Flat Point 7/32" Dia X .625 Long	1
Flat Point 7/32" Dia X .750 Long	1
Flat Point 7/32" Dia X .875 Long	1
Flat Point 7/32" Dia X .895 Long	1
Flat Point 7/32" Dia X 1.250 Long	1
Ball Point 7/32" Dia X .225 Long	1
Ball Point 7/32" Dia X .395 Long	1
Ball Point 7/32" Dia X .625 Long	1
Ball Point 7/32" Dia X .875 Long	1
Ball Point 7/32" Dia X .825 Long	1
Cone Point 7/32" Dia X .875 Long	1
Cone Point 7/32" Dia X .750 Long	1
Cone Point 7/32" Dia X .625 Long	1
Cone Point 7/32" Dia X .500 Long	1
Bent Stem Point 1/16" Dia X .312 Long	1
Double Stem Point 1/16" Dia X .935 Long	1
Stem Point 1/16" Dia X 1.350 Long	1
Double Stem Point 1/16" Dia X .955 Long	1



11 PCS Set Code No.: 477-11-8	
Individual Description	Quantity
Flat Point 7/32" Dia X .250 Long	1
Flat Point 7/32" Dia X .380 Long	1
Flat Point 7/32" Dia X .500 Long	1
Flat Point 7/32" Dia X .625 Long	1
Flat Point 7/32" Dia X .875 Long	1
Flat Point 7/32" Dia X 1.250 Long	1
Ball Point 7/32" Dia X .225 Long	1
Ball Point 7/32" Dia X .625 Long	1
Cone Point 7/32" Dia X .750 Long	1
Cone Point 7/32" Dia X .625 Long	1
Bent Stem Point 1/16" Dia X .312 Long	1



Adapters

477 Series

FEATURES

- Point is 7/32" diameter, 1/2" length
- Steel, soft and Black Oxide plated.



SPECIFICATIONS

Use	Description	Code No.
Metric to English Conversion Point	4-48 Internal Threads to M2.5 External Threads.	477-38-1
English to Metric Conversion Point	M2.5 Internal Threads to 4-48 External Threads.	477-39-1



Dial Indicator Extension Rods & Set

477 Series

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



FEATURES

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

Indicator Probe Holders

500 Series

FEATURES

- Low Carbon Steel, black oxide plated
- .014-.040 chucking capacity

SPECIFICATIONS

Thread	Code No.
4-48	500-17-1
M2.5	500-17-0





Dial Test Indicators

501 / 502 Series

FEATURES

- Graduation: Inch .0001"; .0005", Metric 0.002mm; 0.01mm
- Jeweled bearings
- Inch unit comes with Ø3/8" dovetail stems. Metric unit comes with Ø8mm dovetail stems
- Easy to read yellow face
- Horizontal models and Vertical models are available
- Carbide tipped contact point

STANDARD ACCESSORIES

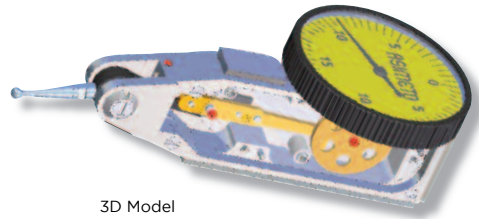
- Warranty card, Instruction manual, Calibration certificate



Vertical



Horizontal



3D Model

Full Set



Carbide tipped point
DIA. Ø2mm

Steel point
DIA. Ø1mm

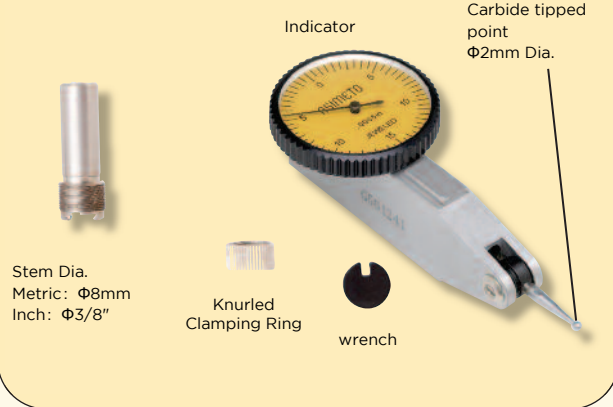
Stem Dia.
Metric: 4mm
Inch: .157"

Knurled
Clamping Ring

Swivel Clamp
Metric: for Ø4mm, & Ø8mm Dia.
Inch: for 3/8", & .157" Dia.

Holding Bar
Metric: 9x9x100mm
Inch: .25"x.5"x4"

Base Set



Stem Dia.
Metric: Ø8mm
Inch: Ø3/8"

Knurled
Clamping Ring

wrench

Indicator

Carbide tipped
point
Ø2mm Dia.

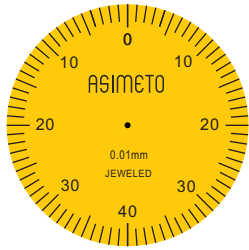
SPECIFICATIONS

					Ø32mm / Ø1.26" DIA.		Ø40mm / Ø1.57" DIA.	
Range	Resolution	Dial reading	Accuracy	Note	Code No.	Set Code No.	Code No.	Set Code No.
Inch								
.008"	.0001"	0-4-0	±.0001"	Horizontal	501-78-1	501-78-9	-	-
.03"	.0005"	0-15-0	±.0005"	Horizontal	501-73-1	501-73-9	-	-
.008"	.0001"	0-4-0	±.0001"	Vertical	501-78-5	-	-	-
.03"	.0005"	0-15-0	±.0005"	Vertical	501-73-5	-	-	-
.03"	.0005"	0-15-0	±.0005"	Horizontal / Long Point	501-73-7	-	-	-
Metric								
0.2mm	0.002mm	0-100-0	0.004mm	Horizontal	501-02-0	501-02-9	502-02-0	502-02-9
0.5mm	0.01mm	0-25-0	0.013mm	Horizontal	501-05-0	501-05-9	502-05-0	502-05-9
0.8mm	0.01mm	0-40-0	0.013mm	Horizontal	501-08-0	501-08-9	502-08-0	502-08-9
1.0mm	0.01mm	0-50-0	0.013mm	Horizontal	501-10-0	501-10-9	502-10-0	502-10-9
0.2mm	0.002mm	0-100-0	0.004mm	Vertical	501-02-4	-	502-02-4	-
0.5mm	0.01mm	0-25-0	0.013mm	Vertical	501-05-4	-	502-05-4	-
0.8mm	0.01mm	0-40-0	0.013mm	Vertical	501-08-4	-	502-08-4	-
1.0mm	0.01mm	0-50-0	0.013mm	Vertical	501-10-4	-	502-10-4	-

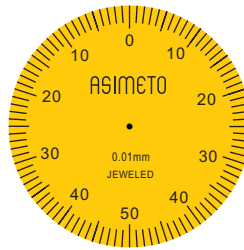


Dial Test Indicators

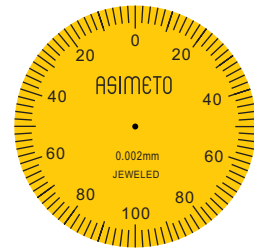
501 / 502 Series



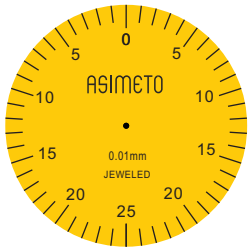
501-08-0 502-08-0
501-08-4 502-08-4
501-08-9 502-08-9



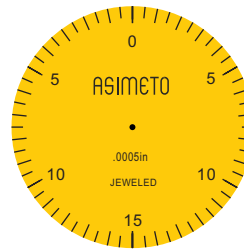
501-10-0 502-10-0
501-10-4 502-10-4
501-10-9 502-10-9



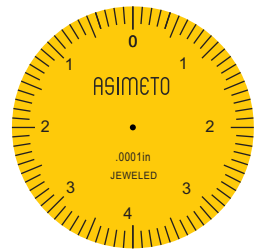
501-02-0 502-02-0
501-02-4 502-02-4
501-02-9 502-02-9



501-05-0 502-05-0
501-05-4 502-05-4
501-05-9 502-05-9



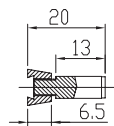
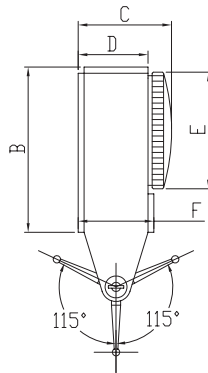
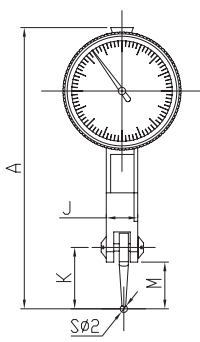
501-73-1 501-73-9
501-73-5
501-73-7



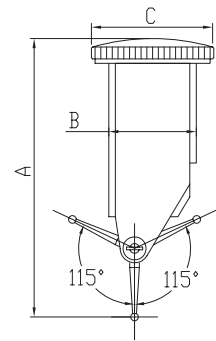
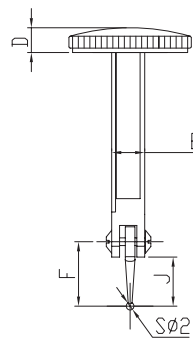
501-78-1
501-78-5
501-78-9

Dimension

Horizontal



Vertical



Grauation	A	B	C	D	E	F	J	K	M
	mm	mm	mm	mm	mm	mm	mm	mm	mm
Vertical									
0.002mm/.0001"	71	44	25	17	32	19	8.5	15	11
0.01mm/.0005"	78.6	45	27	19	32	21	8.5	18	14
Horizontal									
0.002mm/.0001"	69	23	32	8	8.5	15	11	-	-
0.01mm/.0005"	76	23	32	8	8.5	17	13	-	-

Remark: Refer to Page 114 for the detail length of contact point for different ranges test indicators



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
- Carbide 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



503-06-1



503-56-1



503-16-1

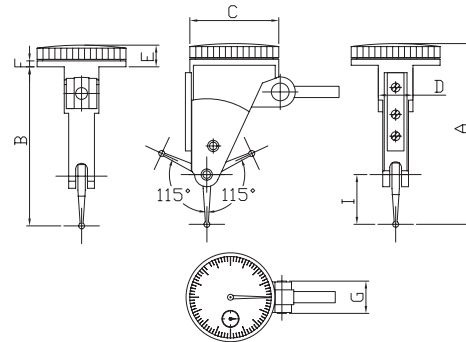
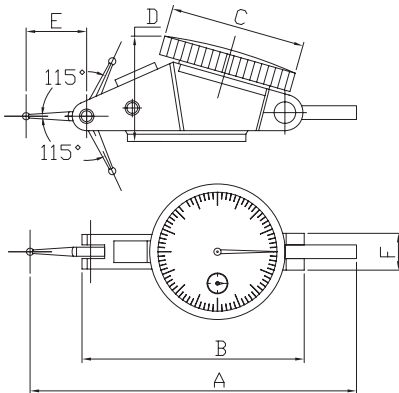
SPECIFICATIONS

Range	Graduation	Dial Reading	Accuracy	Note	Φ30mm / Φ1.18" Dia.	Φ38mm / Φ1.50" Dia.
					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
.016"	.0001"	0-4-0	±.0005"	Horizontal	503-16-1	504-16-1
.060"	.001"	0-15-0	±.0012"	Vertical	503-06-3	-
.060"	.0005"	0-15-0	±.0012"	Vertical	503-56-3	504-56-3
.016"	.0001"	0-4-0	±.0005"	Vertical	-	504-16-3
Metric						
1.6mm	0.01mm	0-40-0	0.02mm	Horizontal	503-56-0	504-56-0
0.4mm	0.002mm	0-100-0	0.006mm	Horizontal	503-16-0	504-16-0
1.6mm	0.01mm	0-40-0	0.02mm	Vertical	503-56-2	504-56-2
0.4mm	0.002mm	0-100-0	0.006mm	Vertical	-	504-16-2

Dimension

Horizontal

Vertical



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

- Calibration certificate, Instruction manual, Warranty card, 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.
.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 - 0.060", Graduation: 0.0005"
- Dial Reading 0-15-0, Dial Dia.: 1-5/16"
- 5/32" Stem, dovetail on front and back

STANDARD ACCESSORIES

- Calibration certificate, Instruction manual, Warranty card, 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



Digital Test Indicator

505 Series

FEATURES

- Resolution: 0.001mm/0.0001"
- Inch/Metric conversion
- With Ø8mm and Ø4mm dovetail stems
- Positive and negative measurement
- Tolerance setting
- With Ruby tipped contact point

STANDARD ACCESSORIES

- Warranty card, Instruction manual, Calibration certificate



SPECIFICATIONS

Inch		Metric		Code No.
Range	Accuracy	Range	Accuracy	
.02"	.0005"	0.5mm	0.009mm	505-01-0

Digital Radius Gauge

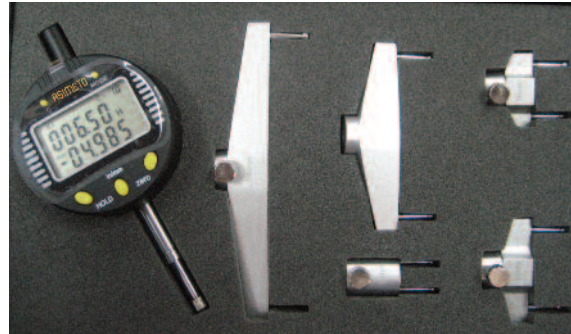
495 Series

FEATURES

- Resolution: 0.01mm/0.0005"
- 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/0.01mm	0.5mm	495-17-0



Float N Lock Positioners

605 Series

FEATURES

- It's an excellent dial indicator holder.
- All metal parts used.
- Precision angled bearings interface and lock the ball precisely with a small turn of the locking knob. Excellent rigidity factor.
- Self-compensating, no need to disassemble to re-establish tension (as with other designs).
- Right angle notch (for 90° positioning) can be swung to any point 360° and then locked.

SPECIFICATIONS

Description	Code No.
Mounting Bottom Holes 3/8"-16	605-70-0
Magnetic Base (90 lb. Pull) 3-1/4" x .435" High	605-71-0



Centering Indicators

469 Series

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	0-3mm	0.005mm	469-00-6
Inch	0-.15"	.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



469-00-6



Zero Set Holder

500 Series

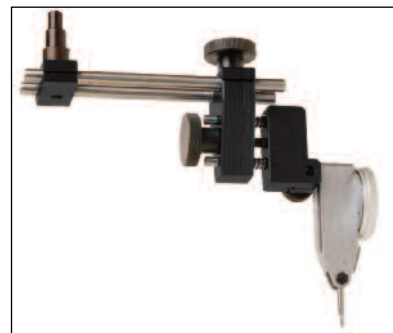
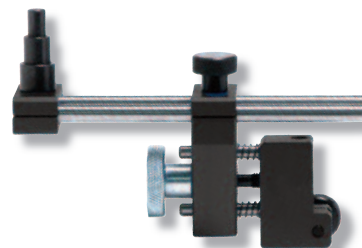
FEATURES

- The ZeroSet fits all dovetail equipped Indicators, and is used for checking Set-Ups.
- Checks the alignment of the centers of round materials in relation to the cutting head.
- Speeds set up operations enormously.
- Equipped with a spindle post with 1/4", 3/8", and 1/2" diameters, and has an effective measuring range of 3/8" thru 9".
- Test indicator is not included and is optional.

SPECIFICATIONS

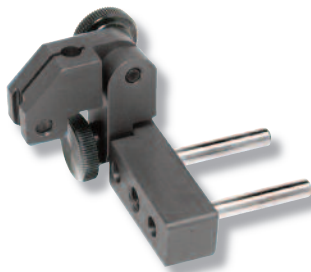
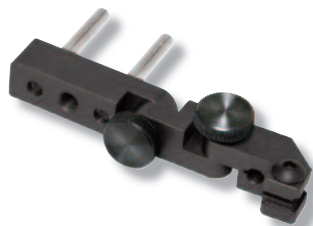
Code No.

500-15-0



Zero Set Universal Attachment

500 Series



FEATURES

- For use with any dovetail test indicator allowing a multitude of positioning possibilities in either direction
- Angles up to 90 degrees on either side.
- Allows for an infinite range of measurements over an extensive area.
- Test indicator is not included and is optional.

SPECIFICATIONS

Code No.

500-16-0





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

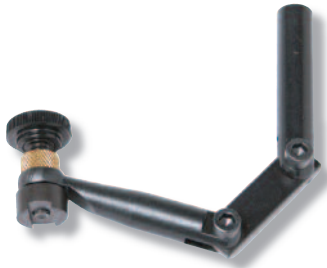
SPECIFICATIONS

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



Double-Jointed Dovetail Holder

500 Series



FEATURES

- Brass Setting Nut allows orientation of the indicator in a full 360 degrees, with secure clamping.
- It also allows a fine adjustment for the indicator of .060 up and down.
- 3/8" diameter body for secure clamping
- 4-1/2" overall reach
- Fits all dovetail equipped Indicators

SPECIFICATIONS

Shank Dia.	Overall Length	Code No.
3/8"	4 3/4"	500-27-0



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	4" and 7"	2-1/4 x 1-5/8 x 7/8"	500-28-0
Universal Surface Gauge	9" and 12"	3-1/8 x 2-3/8 x 1-1/8"	500-29-0





Spring-Loaded Tension Clamps

500 Series

FEATURES

- A complete range of sizes for all applications.
- Used for setting up and fixturing all types of instruments.
- Available with clamping ranges from 5/32" to 1/2".
- Overall length for all sizes is 1-3/4".
- Steel with Black Oxide finish.
- New Stainless Steel sizes also.



SPECIFICATIONS

Clamp Hole	End Hole	Code No.	
		Steel	Stainless Steel
5/16"	5/32"	500-30-0	500-40-0
5/16"	1/4"	500-30-1	500-40-1
3/8"	1/4"	500-30-2	500-40-2
1/4"	1/4"	500-30-3	500-40-3
5/16"	5/16"	500-30-4	500-40-4
3/8"	5/16"	500-30-5	500-40-5
3/8"	3/8"	500-30-6	500-40-6
1/2"	3/8"	500-30-7	500-40-7
1/2"	5/16"	500-30-8	500-40-8



Clamps with Dovetails

500 Series



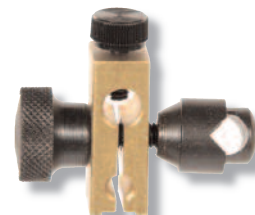
500-36-1



500-36-2



500-36-0



500-36-4

FEATURES

- For any Indicator equipped with rods or dovetails.
- Used to fixture Indicators on Surface Gauge, Gauge Stands, Magnetic Bases, Height Gauge, Transfer Stands, and many others.
- Steel with Black Oxide finish.

SPECIFICATIONS

Mounting Hole	Code No.
3/8" and 7/32"	500-36-0
3/8 and 1/4	500-36-1
3/8 and 5/32	500-36-2
7/32 and 5/32	500-36-3
1/4 and 1/8 plus adjustable hole up to 1/4	500-36-4



500-36-3



Inside/Outside Diameter Groove Gauges

500 Series

FEATURES

- A quick way to inspect steps, counterbores, keyways and face O-ring grooves
- Available in 0-6" and 6-12" ranges
- Black Anodized Aluminum



SPECIFICATIONS

Range	Code No.
0-6"	500-37-0
6-12"	500-38-0



Dial Indicator Depth Bases

500 Series

FEATURES

- Ground flat and parallel on both top and bottom surfaces.
- Set screw in bases holds Indicator in place.
- Black Oxide plated.



SPECIFICATIONS

Base length	Dia. of hole	Code No.
65mm	3/8"	500-39-1
100mm	3/8"	500-39-3
65mm	8mm	500-39-0
100mm	8mm	500-39-2

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



Universal Dovetail Indicator Holder

500 Series

FEATURES

- 1/4" shank diameter with 3" reach.
- This spring loaded holder locks in any of (4) 90 degree quadrants, and allows many variable angles of holding.
- Brass contact will not scar Indicator.
- Fits all dovetail equipped Indicators.
- Stainless Steel

SPECIFICATIONS

Code No.
500-41-0





Replacement Tips For TECLOCK Test Indicator

478 Series

SPECIFICATIONS

Ball Diameter	Tip Length	Thread	Code No.	
			Steel Ball	Ruby Ball
.038"	5/8"	M1.7 x 0.35	478-01-0	-
.078	5/8"	M1.7 x 0.35	478-02-0	-
2mm	5/8"	M1.7 x 0.35	-	478-10-0
.125	5/8"	M1.7 x 0.35	478-03-0	-
.038"	3/4"	M1.7 x 0.35	478-04-0	-
.078	3/4"	M1.7 x 0.35	478-05-0	-
2mm	3/4"	M1.7 x 0.35	-	478-11-0
.125	3/4"	M1.7 x 0.35	478-06-0	-
.038"	1-1/2"	M1.7 x 0.35	478-07-0	-
.078	1-1/2"	M1.7 x 0.35	478-08-0	-
2mm	1-1/2"	M1.7 x 0.35	-	478-12-0
.125	1-1/2"	M1.7 x 0.35	478-09-0	-



Replacement Tips For FOWLER Test Indicator

478 Series

SPECIFICATIONS

Ball Diameter	Tip Length	Thread	Code No.	
			Steel Ball	Carbide Ball
.080"	.416"	M1.6 x 0.35	478-01-1	-
.040	.500"	M1.6 x 0.35	-	478-06-1
.080	.500"	M1.6 x 0.35	-	478-07-1
.030	.768	M1.6 x 0.35	478-02-1	-
.040	.780	M1.6 x 0.35	-	478-08-1
.080	.780	M1.6 x 0.35	478-03-1	478-09-1
.120	.780	M1.6 x 0.35	-	478-10-1
.040	1.500	M1.6 x 0.35	-	478-11-1
.080	1.500	M1.6 x 0.35	-	478-12-1
.080	2.930	M1.6 x 0.35	478-04-1	-
.080	3.077	M1.6 x 0.35	478-05-1	-

Replacement Tips For GIROD Test Indicator

478 Series

SPECIFICATIONS

Ball Diameter	Tip Length	Thread	Code No.	
			Ruby Ball	Carbide Ball
.040"	1/2"	M1.6 x 0.35	-	478-23-1
.080	1/2"	M1.6 x 0.35	-	478-24-1
.120	1/2"	M1.6 x 0.35	-	478-25-1
.040	1-7/16	M1.6 x 0.35	-	478-26-1
.080	1-7/16	M1.6 x 0.35	-	478-27-1
.120	1-7/16	M1.6 x 0.35	-	478-28-1
.040	1-7/16	M1.4 x 0.3	-	478-29-1
.080	1-7/16	M1.4 x 0.3	-	478-30-1
.120	1-7/16	M1.4 x 0.3	-	478-31-1
2mm	1/2"	M1.6 x 0.35	478-20-1	-
2mm	1-7/16	M1.6 x 0.35	478-21-1	-
2mm	1-1/2"	M1.6 x 0.35	478-22-1	-



Replacement Tips For MITUTOYO Test Indicator

478 Series

SPECIFICATIONS

Ball Diameter	Tip Length	Thread	Code No.	
			Steel Ball	Carbide Ball
.040"	.500"	M1.7 x 0.35	-	478-15-2
.015	.606	M1.7 x 0.35	-	478-16-2
.031	.606	M1.7 x 0.35	478-01-2	478-17-2
.040	.606	M1.7 x 0.35	478-02-2	478-18-2
.062	.606	M1.7 x 0.35	478-03-2	478-19-2
.080	.606	M1.7 x 0.35	478-04-2	478-20-2
.930	.606	M1.7 x 0.35	-	478-21-2
.120	.606	M1.7 x 0.35	478-05-2	478-22-2
.015	.643	M1.7 x 0.35	-	478-23-2
.031	.643	M1.7 x 0.35	478-06-2	478-24-2
.040	.643	M1.7 x 0.35	478-07-2	478-25-2
.062	.643	M1.7 x 0.35	478-08-2	478-26-2
.080	.643	M1.7 x 0.35	478-09-2	478-27-2
.930	.643	M1.7 x 0.35	478-10-2	478-28-2
.120	.643	M1.7 x 0.35	478-11-2	478-29-2
.080	.670	M1.7 x 0.35	-	478-30-2
.040	.700	M1.7 x 0.35	478-12-2	478-31-2
.080	.700	M1.7 x 0.35	478-13-2	478-32-2
.120	.700	M1.7 x 0.35	478-14-2	-

Ball Diameter	Tip Length	Thread	Code No.	
			Steel Ball	Carbide Ball
.015	.900"	M1.7 x 0.35	-	478-50-2
.031	.900	M1.7 x 0.35	478-35-2	478-51-2
.040	.900	M1.7 x 0.35	478-36-2	478-52-2
.062	.900	M1.7 x 0.35	478-37-2	478-53-2
.080	.900	M1.7 x 0.35	478-38-2	478-54-2
.930	.900	M1.7 x 0.35	-	478-55-2
.120	.900	M1.7 x 0.35	478-39-2	478-56-2
.040	1	M1.7 x 0.35	478-40-2	-
.080	1	M1.7 x 0.35	478-41-2	478-57-2
.120	1	M1.7 x 0.35	478-42-2	-
.015	1.195	M1.7 x 0.35	-	478-58-2
.031	1.195	M1.7 x 0.35	478-43-2	478-59-2
.040	1.195	M1.7 x 0.35	478-44-2	478-60-2
.062	1.195	M1.7 x 0.35	478-45-2	478-61-2
.080	1.195	M1.7 x 0.35	478-46-2	-
.930	1.195	M1.7 x 0.35	-	478-62-2
.120	1.195	M1.7 x 0.35	-	478-63-2
.040	1.438	M1.7 x 0.35	-	478-64-2
.080	1.438	M1.7 x 0.35	-	478-65-2
.040	1.500	M1.7 x 0.35	478-47-2	-
.080	1.500	M1.7 x 0.35	478-48-2	-
.120	1.500	M1.7 x 0.35	478-49-2	478-66-2

Replacement Tips For STARRETT Test Indicator

478 Series

SPECIFICATIONS

Ball Diameter	Tip Length	Ball Type	OEM Code No.	To Fit Starrett Model#	Code No.
1mm	13/16"	Carbide	PT23942	708, 708M, 709, 709M Series	478-40-1
2mm	13/16	Carbide	PT23914	708, 708M, 709, 709M Series	478-41-1
3mm	13/16	Carbide	PT23943	708, 708M, 709, 709M Series	478-42-1
2mm	5/8	Carbide	PT23953	708, 708M, 709, 709M Series	478-43-1
.032	5/8	Steel	PT23062	811, 811M Series	478-44-1
.032	5/8	Carbide	PT23062X	811, 811M Series	478-45-1
.078	5/8	Steel	PT22315	811, 811M Series	478-46-1
.078	5/8	Carbide	PT23953	811, 811M Series	478-47-1
.032	1-5/16	Steel	PT23064	811, 811M Series	478-48-1
.032	1-5/16	Carbide	PT23064X	811, 811M Series	478-49-1
.078	1-5/16	Steel	PT23011	811, 811M Series	478-50-1
.078	1-5/16	Carbide	PT23011X	811, 811M Series	478-51-1

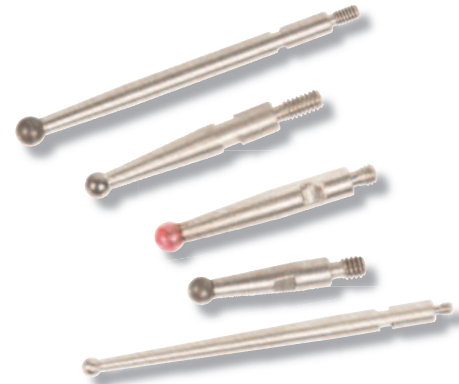


Replacement Tips For PEACOCK Test Indicator

478 Series

SPECIFICATIONS

Ball Diameter	Tip Length	Thread	Code No.		
			Steel Ball	Carbide Ball	Ruby Ball
.038"	3/8"	M1.7 x 0.35	478-60-1	-	-
.078	3/8	M1.7 x 0.35	478-61-1	-	-
.125	3/8	M1.7 x 0.35	478-62-1	-	-
.038"	3/4	M1.7 x 0.35	478-63-1	-	-
.078	3/4	M1.7 x 0.35	478-64-1	-	-
.125	3/4	M1.7 x 0.35	478-65-1	-	-
.038"	1-3/4	M1.7 x 0.35	478-66-1	-	-
.078	1-3/4	M1.7 x 0.35	478-67-1	-	-
.125	1-3/4	M1.7 x 0.35	478-68-1	-	-
.031	3/8	M1.7 x 0.35	-	478-69-1	-
.08	3/8	M1.7 x 0.35	-	478-70-1	-
2mm	3/8	M1.7 x 0.35	-	-	478-71-1



Replacement Tips For BROWN & SHARPE Test Indicator

478 Series

SPECIFICATIONS

Ball Diameter	Tip Length	Thread	Code No.		
			Steel Ball	Carbide Ball	Ruby Ball
.015"	1/2"	M1.4 x 0.3	-	478-24-0	-
.040	1/2	M1.4 x 0.3	478-20-0	478-25-0	-
.080	1/2	M1.4 x 0.3	478-21-0	478-26-0	-
2mm	1/2	M1.4 x 0.3	-	-	478-33-0
.120	1/2	M1.4 x 0.3	478-22-0	478-27-0	-
.080	11/16	M1.4 x 0.3	-	478-28-0	-
.015"	1-7/16	M1.4 x 0.3	-	478-29-0	-
.040	1-7/16	M1.4 x 0.3	-	478-30-0	-
.080	1-7/16	M1.4 x 0.3	478-23-0	478-31-0	-
2mm	1-7/16	M1.4 x 0.3	-	-	478-34-0
.120	1-7/16	M1.4 x 0.3	-	478-32-0	-

Replacement Tips For COMPAC Test Indicator

478 Series

SPECIFICATIONS

Ball Diameter	Tip Length	Thread	Code No.	
			Carbide Ball	Ruby Ball
.080"	.675"	M1.6 x 0.35	478-40-0	-
.080	.720	M1.6 x 0.35	478-41-0	-
2mm	.720	M1.6 x 0.35	-	478-44-0
.120	.720	M1.6 x 0.35	478-42-0	-
.080	1.44	M1.6 x 0.35	478-43-0	-
2mm	1.44	M1.6 x 0.35	-	478-45-0

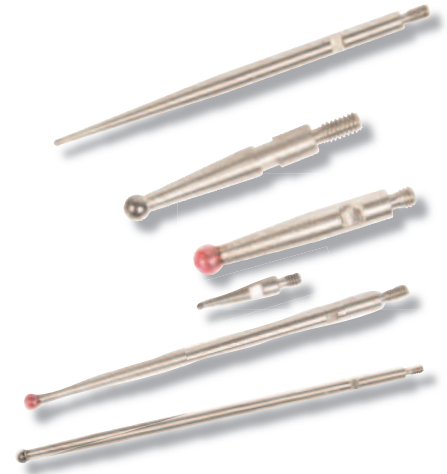


Replacement Tips For TESA Test Indicator

478 Series

SPECIFICATIONS

Ball Diameter	Tip Length	Thread	Code No.		
			Steel Ball	Carbide Ball	Ruby Ball
.015"	1/2"	M1.4 x 0.3	-	478-10-3	-
.040	1/2"	M1.4 x 0.3	478-01-3	478-11-3	-
.080	1/2"	M1.4 x 0.3	-	478-12-3	-
2mm	1/2"	M1.4 x 0.3	-	-	478-18-3
.090	1/2"	M1.4 x 0.3	478-02-3	-	-
.120	1/2"	M1.4 x 0.3	478-03-3	478-13-3	-
.015"	1-1/2"	M1.4 x 0.3	-	478-14-3	-
.031	1-1/2"	M1.4 x 0.3	478-04-3	-	-
.040	1-1/2"	M1.4 x 0.3	478-05-3	478-15-3	-
.060	1-1/2"	M1.4 x 0.3	478-06-3	-	-
.080	1-1/2"	M1.4 x 0.3	478-07-3	478-16-3	-
2mm	1-1/2"	M1.4 x 0.3	-	-	478-19-3
.090	1-1/2"	M1.4 x 0.3	478-08-3	-	-
.120	1-1/2"	M1.4 x 0.3	478-09-3	478-17-3	-



Replacement Tips For INTERAPID Test Indicator

478 Series

SPECIFICATIONS

Ball Diameter	Tip Length	Thread	Code No.		
			Steel Ball	Carbide Ball	Ruby Ball
.015"	11/16"	M1.7 x 0.35	-	478-37-3	-
.031	11/16"	M1.7 x 0.35	478-25-3	478-38-3	-
.060	11/16"	M1.7 x 0.35	478-26-3	478-39-3	-
.080	11/16"	M1.7 x 0.35	478-27-3	478-40-3	-
2mm	11/16"	M1.7 x 0.35	-	-	478-63-3
.093	11/16"	M1.7 x 0.35	-	478-41-3	-
0.8mm	18mm	M1.7 x 0.35	478-28-3	478-42-3	-
1.5mm	18mm	M1.7 x 0.35	478-29-3	478-43-3	-
2mm	18mm	M1.7 x 0.35	478-30-3	478-44-3	-
.015"	13/16"	M1.7 x 0.35	-	478-45-3	-
.031	13/16"	M1.7 x 0.35	478-31-3	478-46-3	-
.060	13/16"	M1.7 x 0.35	478-32-3	478-47-3	-
.080	13/16"	M1.7 x 0.35	478-33-3	478-48-3	-
2mm	13/16"	M1.7 x 0.35	-	-	478-64-3
0.8mm	21mm	M1.7 x 0.35	478-34-3	478-49-3	-
1.5mm	21mm	M1.7 x 0.35	478-35-3	478-50-3	-
2mm	21mm	M1.7 x 0.35	478-36-3	478-51-3	-
.031	1.450"	M1.7 x 0.35	-	478-52-3	-
.080	1.450"	M1.7 x 0.35	-	478-53-3	-
0.8mm	37mm	M1.7 x 0.35	-	478-54-3	-
2mm	37mm	M1.7 x 0.35	-	478-55-3	-
.015"	1-3/4"	M1.7 x 0.35	-	478-56-3	-
.031	1-3/4"	M1.7 x 0.35	-	478-57-3	-
.080	1-3/4"	M1.7 x 0.35	-	478-58-3	-
2mm	1-3/4"	M1.7 x 0.35	-	-	478-65-3
0.8mm	45mm	M1.7 x 0.35	-	478-59-3	-
2mm	45mm	M1.7 x 0.35	-	478-60-3	-
.080	2-3/4"	M1.7 x 0.35	-	478-61-3	-
.100	2-3/4"	M1.7 x 0.35	-	478-62-3	-



Optional Accessories for ASIMETO Test Indicators

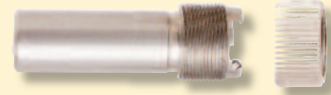
500 Series

Contact Points



Indicator Range	Tipp Dia.	Length	Steel	Carbide	Ruby
			Code No.	Code No.	Code No.
1mm/0.01mm	Φ1mm	20.95mm	500-11-1	-	-
	Φ2mm	21.45mm	500-12-1	500-12-2	500-12-3
	Φ3mm	21.95mm	500-13-1	500-13-2	500-13-3
0.8mm/0.01mm	Φ1mm	16.8mm	500-51-1	-	-
	Φ2mm	17.3mm	500-52-1	500-52-2	500-52-3
0.5mm/0.01mm	Φ3mm	17.8mm	500-53-1	500-53-2	500-53-3
0.03"/0.0005"	Φ1mm	15.9mm	500-61-1	-	-
	Φ2mm	16.4mm	500-62-1	500-62-2	500-62-3
	Φ3mm	16.9mm	500-63-1	500-63-2	500-63-3
0.2mm/0.002mm	Φ1mm	14.2mm	500-71-1	-	-
	Φ2mm	14.7mm	500-72-1	500-72-2	500-72-3
0.008"/0.0001"	Φ3mm	15.2mm	500-73-1	500-73-2	500-73-3
1.6mm/0.01mm	Φ1mm	21.3mm	500-81-1	-	-
0.4mm/0.002mm	Φ2mm	21.8mm	500-82-1	500-82-2	500-82-3
0.06"/0.0005"	Φ3mm	22.3mm	500-83-1	500-83-2	500-83-3

Dovetail Stem Sets



Knurled Clamping Ring

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

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

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

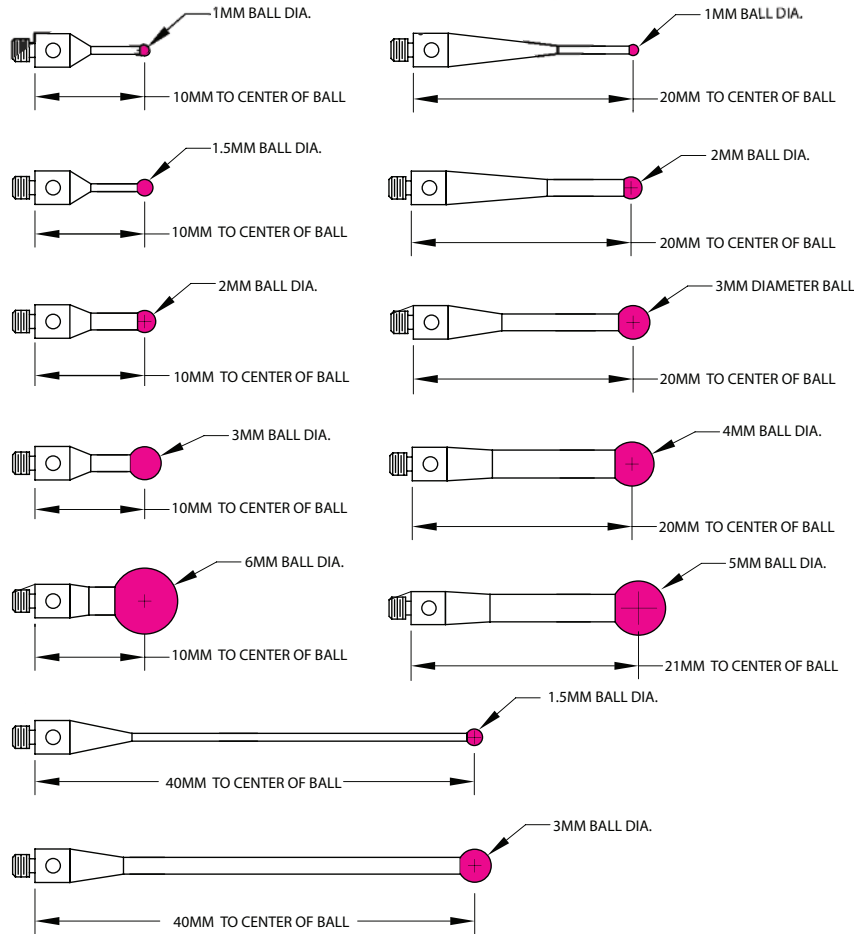


Description	Code No.
8mm Dia. Stem	500-35-0
.25" Dia. Stem	500-35-1



CMM Styli - M2 Thread

478 Series



SPECIFICATIONS

Ball Size	Length	Renishaw Functional Equivalent	Carbide Probes	SPI	Q Mark	Code No.
1mm Ruby	10mm		265-1R	12-620-1	TM2-1010	478-01-6
1.5mm Ruby	10mm	PS24R A/5000/7802	-	-	TM2-1510	478-02-6
2mm Ruby	10mm	PS8R A/5000/7807	-	14-987-2	TM2-2010	478-03-6
3mm Ruby	10mm	PS1R A/5000/3604	-	14-988-0	TM2-3010	478-04-6
6mm Ruby	10mm	PS14R A/5000/4156	265-6R	12-625-0	TM2-6010	478-05-6
8mm Ruby	12mm	PS15R A/5000/4158	265-8R	12-626-8	TM2-8015	478-06-6
1mm Ruby	20mm	PS23R A/5000/7808	266-1R	12-621-9	TM2-1020-07	478-07-6
1.5mm Ruby	20mm			-		478-08-6
2mm Ruby	20mm	PS2R A/5000/3603	266-2R	12-622-7	TM2-2020	478-09-6
3mm Ruby	20mm	PS16R A/5000/4160	266-3R	12-623-5	TM2-3020	478-10-6
4mm Ruby	20mm	PS17R A/5000/4161	266-4R	12-624-3	TM2-4020	478-11-6
5mm Ruby	21mm			-		478-12-6
1.5mm Ruby	40mm			-		478-13-6
3mm Ruby	40mm			-		478-14-6



CMM Styli - M3 Thread

478 Series

Ball Size	Length	Renishaw Functional Equivalent	Carbide Probes	Q Mark	Code No.
1mm Ruby	10mm				478-20-6
6mm Ruby	10mm				478-21-6
8mm Ruby	12mm				478-22-6
1mm Ruby	20mm	PS1-9R A/5000/3551	261-1R	TM3-1020	478-23-6
2mm Ruby	20mm	PS1-10R A/5000/3552	261-2R	TM3-2020	478-24-6
3mm Ruby	20mm	PS1-11R A/5000/3553	261-3R	TM3-3020	478-25-6
4mm Ruby	20mm	PS1-12R A/5000/7606	261-4R	TM3-4020	478-26-6
5mm Ruby	21mm	PS1-13R A/5000/7630	-	TM3-5020	478-27-6

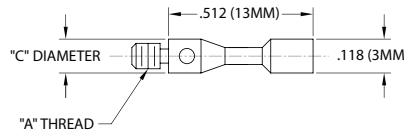
CMM Styli - M4 Thread

478 Series

Ball Size	Length	Renishaw Functional Equivalent	Carbide Probes	Code No.
1mm Ruby	10mm			478-30-6
6mm Ruby	10mm			478-31-6
8mm Ruby	12mm			478-32-6
1mm Ruby	20mm	PS2-3R A/5000/7545	840-1R	478-33-6
2mm Ruby	20mm	PS2-4R A/5000/7547	840-2R	478-34-6
3mm Ruby	20mm	PS2-5R A/5000/7549	840-3R	478-35-6
4mm Ruby	20mm	PS2-6R A/5000/7551	840-4R	478-36-6
5mm Ruby	21mm			478-37-6

Cylinder Styli

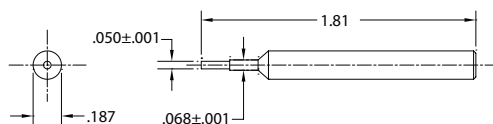
478 Series



Thread	Cylinder Diameter	Styli Length	Base Diameter (C)	Code No.
M2 x 0.4	3mm	13mm	3mm	478-50-6
M3 x 0.5	3mm	13mm	3mm	478-51-6
M4 x 0.5	3mm	13mm	4.75mm	478-52-6

CMM Styli Universal Wrench

478 Series



Code No.
478-55-6



CMM Extensions - M2 Thread

478 Series

- Stainless Steel

Length	Diameter	Renishaw Functional Equivalent	Carbide Probes	SPI	Q Mark	Code No.
5mm	3mm					478-60-6
10mm	3mm	SE4 M/5000/3647	265-E10	12-631-8	VM2-10	478-61-6
20mm	3mm	SE5 M/5000/3648	265-E20	12-632-6	VM2-20	478-62-6
30mm	3mm	SE6 M/5000/4162	265-E30	12-633-4	VM2-30	478-63-6
35mm	3mm					478-64-6
40mm	3mm	SE18 M/5000/7779	265-E40	14-983-1	VM2-40	478-65-6
60mm	3mm			14-984-9		478-66-6



CMM Extensions - M3 Thread

478 Series

Length	Diameter	Renishaw Functional Equivalent	Carbide Probes	Q Mark	Code No.
10mm	4mm	SE8 M/5000/7633	261-E10	VM3-10	478-70-6
20mm	4mm	SE2 M/5000/3592	261-E20	VM3-20	478-71-6
30mm	4mm		261-E30		478-72-6
35mm	4mm	M/5000/3593	261-E35	VM3-35	478-73-6
40mm	4mm	M/5000/3593			478-74-6
60mm	4mm				478-75-6



CMM Extensions - M4 Thread

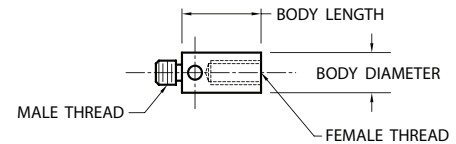
478 Series

Length	Diameter	Renishaw Functional Equivalent	Carbide Probes	Q Mark	Code No.
10mm	6.3mm		823-E10	VM4-10	478-80-6
20mm	6.3mm		823-E20	VM4-20	478-81-6
30mm	6.3mm		823-E30	VM4-30	478-82-6
35mm	6.3mm				478-83-6
40mm	6.3mm				478-84-6
60mm	6.3mm				478-85-6

CMM Adaptor Tips

478 Series

- Converts your probe head to a different thread size, allowing multiple uses of CMM Styli or accessories.

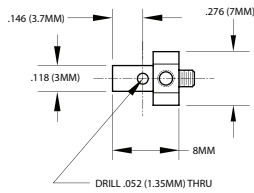


Male Thread	Female Thread	Body Dia.	Body Length	Renishaw Functional Equivalent	Carbide Probes	Fowler	Q Mark	Code No.
M3 x 0.5	M2 x 0.4	4mm	5mm	SA3 M/5000/4163	261-AD5	14-986-4	RM3-M2	478-90-6
M2 x 0.4	M3 x 0.5	4mm	10mm	SA2 M/5000/4164	265-AD7	14-979-9	RM2-M3	478-91-6
M4 x 0.7	M2 x 0.4	6.3mm	5mm	SA5 M/5000/6622	399	14-980-7		478-92-6
M2 x 0.4	M4 x 0.7	6.3mm	15mm			14-981-5	RM4-M2	478-93-6
M4 x 0.7	M3 x 0.5	6.3mm	10mm	SA6 M/5000/6714		14-982-3		478-94-6

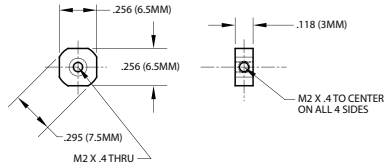


CMM Crossheads

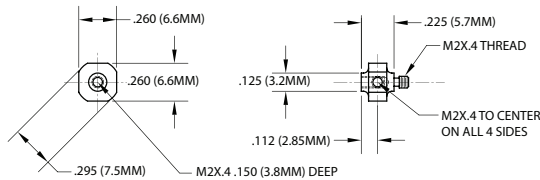
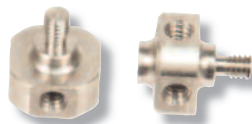
478 Series



Code No.
478-56-6



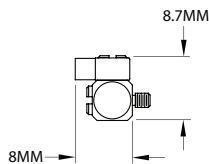
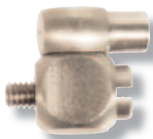
Code No.
478-57-6



Code No.
478-58-6

CMM Styli Knuckle

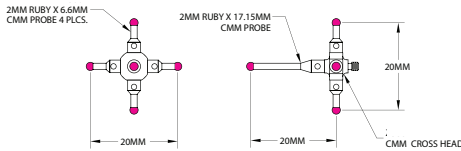
478 Series



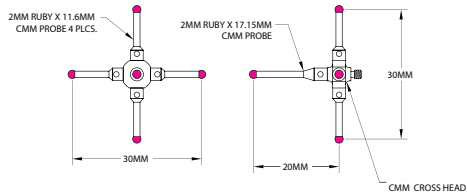
Code No.
478-59-6

CMM Star Styli

478 Series



6 PCS Set Code No.: 478-53-6		
Kit contains:	QTY	Description
CMM Crosshead	1	6.6mm x 6.6mm x 5.7mm, M2 x 0.4
Ruby Ball Probe	1	2mm x 17.2mm
Ruby Ball Probe	4	2mm x 6.6mm



6 PCS Set Code No.: 473-54-6		
Kit contains:	QTY	Description
CMM Crosshead	1	6.6mm x 6.6mm x 5.7mm, M2 x 0.4
Ruby Ball Probe	1	2mm x 17.2mm
Ruby Ball Probe	4	2mm x 11.6mm



Dial Gauge Stands

670 Series



670-01-0



670-11-0

FEATURES

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

SPECIFICATIONS

Size	Flatness	Pillar	Verticality	Measuring range	Code No.
Ø50mm	0.002mm	207 x Ø35mm	0.03mm	100mm	670-01-0
60 x 68mm	0.002mm	207 x Ø35mm	0.03mm	100mm	670-11-0
98 x 115mm	0.005mm	235 x Ø35mm	0.05mm	100mm	670-12-0

Precision Granite Stands

670 Series



670-31-0



670-22-0

FEATURES

- With adjustable arm
- Granite measuring surface and base
- With Ø8mm H7 clamping hole

SPECIFICATIONS

Size	Flatness	Pillar	Verticality	Measuring range	Code No.
Smooth Column					
150 x 150 x 50	0.002mm	300 x Ø30mm	0.03mm	250mm	670-31-0
150 x 230 x 50	0.002mm	300 x Ø30mm	0.03mm	250mm	670-32-0
230 x 300 x 90	0.002mm	300 x Ø30mm	0.03mm	250mm	670-33-0
Screw Column					
200 x 150 x 50	0.002mm	300 x Ø30mm	0.03mm	250mm	670-22-0
300 x 200 x 50	0.002mm	300 x Ø30mm	0.03mm	250mm	670-23-0



Articulating Arm Magnetic Bases

602 Series

FEATURES

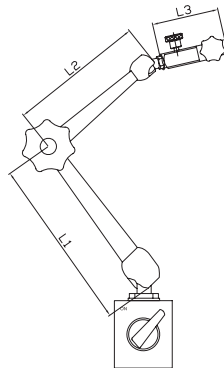
- Accepts test indicators with dovetail clamping mechanism
- Dial gauges can be held by the 3/8" or 8mm diameter stem or by the lug backing plate
- Arm has 3 articulating joints that can be locked with the single hand knob
- The rotary knob switches natural magnet on or off
- The precision surfaces and the bottom V are securely fastened to the ferrous work piece or machine table when the rotary knob is in the on position



602-02-1

SPECIFICATIONS

Magnetic Power	Magnetic Base (L X W X H)	Height	Dia. of Hole	Slot	Working Angle	Code No.
30 kg	36x30x35mm	195mm	Φ3/8"/Φ8mm	6.5mm	150°	602-01-1
80 kg	60x50x55mm	350mm	Φ3/8"/ 8mm	6.5mm	150°	602-02-1
80 kg	60x50x55mm	440mm	Φ3/8"/ 8mm	6.5mm	150°	602-03-1
130 kg	117x50x55mm	690mm	Φ3/8"/ 8mm	6.5mm	150°	602-05-1



Height	L1	L2	L3
mm	mm	mm	mm
235	65	55	60
335	110	110	60
440	150	140	60
690	345	230	60

Magnetic Bases

600 Series

Magnetic Power	Dimension	Thread size	Code No.
60kg	60x50x55mm	M8	600-01-1



600-01-1



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 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



601-01-1

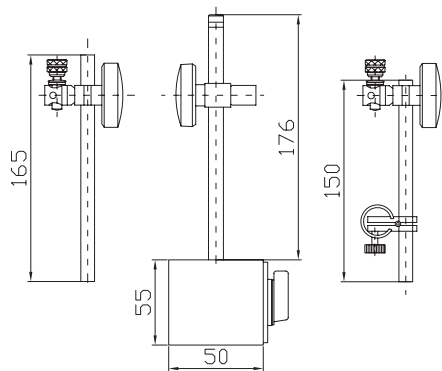


601-02-1

SPECIFICATIONS

Magnetic Power	Magnetic Base	Main Stem	Sub Pole		Remark	Inch	Metric		
	(L X W X H)	Dia.	Length	Dia.	Length	Dia. of hole	Code No.	Code No.	
80 kg	60x50x55mm	Φ12mm	176mm	Φ10mm	165mm	Φ3/8"/Φ8mm	601-01-1	601-01-0	
80 kg	60x50x55mm	Φ12mm	176mm	Φ10mm	150mm	Φ3/8"/Φ8mm	with a fine adjustment	601-02-1	601-02-0

Dimension



Permanent Magnetic Base

601 Series

FEATURES

- With permanent magnetic base, without On/Off switch
- Dovetail groove included
- Packaging: Cardboard box

SPECIFICATIONS

Magnetic Power	Main body	Main Stem Length	Dia. of Hole		Code No.
			Hole	Slot	
17 kg	Ø30x25mm	85mm	Φ8/ Φ6mm	6mm	601-12-0



601-12-0



Hydraulic Magnetic Bases

603 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



603-01-0

SPECIFICATIONS

Magnetic Power	Magnetic Base (L X W X H)	Height	Dia. of Hole	Slot	Working Angle	Code No.
80 kg	60x50x55mm	385mm	Φ3/8"/Φ8mm	6.5mm	150°	603-01-0
100 kg	73x50x55mm	685mm	Φ3/8"/ 8mm	6.5mm	150°	603-02-0

Forced Locking Magnetic Bases

604 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
- 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



604-02-0

SPECIFICATIONS

Magnetic Power	Magnetic Base (L X W X H)	Main Stem Dia.	Length	Sub Pole Dia.	Length	Dia. of Hole	Slot	Code No.
80 kg	60x50x55mm	Φ12mm	180mm	Φ10mm	160mm	Φ3/8" / Φ8mm	6.5mm	604-01-0
80 kg	60x50x55mm	Φ14mm	203mm	Φ12mm	165mm	Φ3/8" / Φ8mm	6.5mm	604-02-0
100 kg	73x50x55mm	Φ16mm	250mm	Φ16mm	200mm	Φ3/8" / Φ8mm	6.5mm	604-03-0
100 kg	117x50x55mm	Φ18mm	350mm	Φ16mm	200mm	Φ3/8" / Φ8mm	6.5mm	604-04-0



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



602-31-0

SPECIFICATIONS

Magnetic Power	Magnetic Base (L X W X H)	Height	Dia. of Hole		Working Angle	Code No.
				Slot		
80 kg	60x50x55mm	390mm	Φ3/8" / 8mm	6.5mm	150°	602-31-0

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	Dia. of Hole	Code No.
60 kg	60x50x55mm	360mm	Φ8mm	601-11-0
60 kg	60x50x55mm	360mm	Φ3/8"	601-11-1



601-11-0

Bore Gauges

- 129** Dial Bore Gauges
- 130** Extensions for Dial Bore Gauges
- 130** Large Diameter Dial Bore Gauges
- 131** Digital Bore Gauges
- 131** Bore Gauge Zero Checker
- 133** 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	Number of Anvils	Number of Spacers	Number of Sub-anvils	Probe Depth	Code No.
Inch							
.24-.4"	.0001"	.05" (AGD1)	9	-	-	2"	483-11-1
.4-.7"	.0001"	.05" (AGD1)	9	1	-	4"	483-12-1
.7-1.5"	.0001"	.05" (AGD2)	10	2	-	6"	483-21-1
1.4-2.4"	.0001"	.05" (AGD2)	6	4	-	6"	483-22-1
2-6"	.0001"	.05" (AGD2)	11	4	1	6"	483-31-1
6-10"	.0001"	.05" (AGD2)	6	6	1	10"	483-32-1
10-16"	.0001"	.05" (AGD2)	6	6	2	16"	483-33-1
Metric							
6-10mm	0.001mm	1mm (AGD1)	9	-	-	40mm	483-11-0
10-18mm	0.001mm	1mm (AGD1)	9	1	-	100mm	483-12-0
18-35mm	0.001mm	1mm (AGD2)	9	1	-	150mm	483-21-0
35-50mm	0.001mm	1mm (AGD2)	4	4	-	150mm	483-22-0
50-160mm	0.001mm	1mm (AGD2)	12	4	1	150mm	483-31-0
160-250mm	0.001mm	1mm (AGD2)	5	5	1	250mm	483-32-0
250-400mm	0.001mm	1mm (AGD2)	5	5	2	400mm	483-33-0
Metric							
6-10mm	0.01mm	3mm (AGD1)	9	-	-	40mm	484-11-0
10-18mm	0.01mm	3mm (AGD1)	9	1	-	100mm	484-12-0
18-35mm	0.01mm	3mm (AGD2)	9	2	-	150mm	484-21-0
35-50mm	0.01mm	3mm (AGD2)	4	4	-	150mm	484-22-0
50-160mm	0.01mm	3mm (AGD2)	12	4	1	150mm	484-31-0
160-250mm	0.01mm	3mm (AGD2)	5	5	1	250mm	484-32-0
250-400mm	0.01mm	3mm (AGD2)	5	5	2	400mm	484-33-0
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		

Extensions for Dial Bore Gauges

483 / 484 Series

FEATURES

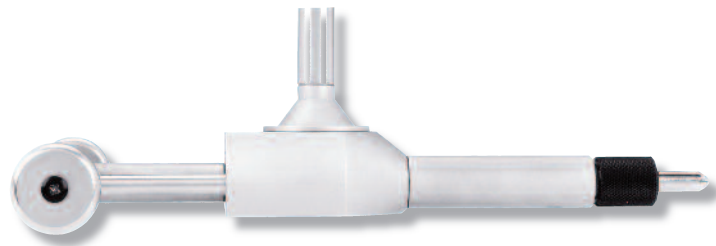
- Increases the depth that measurements can be taken with the standard type of dial bore gauge

SPECIFICATIONS

Range	Graduation	Dial Travel	Depth / Code No.			
Inch			19.7"	39.4"	59.1"	78.7"
1.4"-2.4"	.0005"	.25"	483-22-3	483-22-5	483-22-7	483-22-9
2.0"-6.0"	.0005"	.25"	483-31-3	483-31-5	483-31-7	483-31-9
6.0"-10.0"	.0005"	.25"	483-32-3	483-32-5	483-32-7	483-32-9
10.0"-16.0"	.0005"	.25"	483-33-3	483-33-5	483-33-7	483-33-9
Metric			500mm	1000mm	1500mm	2000mm
35-50mm	0.01mm	3mm	484-22-2	484-22-4	484-22-6	484-22-8
50-160mm	0.01mm	3mm	484-31-2	484-31-4	484-31-6	484-31-8
160-250mm	0.01mm	3mm	484-32-2	484-32-4	484-32-6	484-32-8
250-400mm	0.01mm	3mm	484-33-2	484-33-4	484-33-6	484-33-8

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

Digital Bore Gauges

485 Series

FEATURES

- Resolution: .00005" / 0.002mm
- 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



485-22-0

SPECIFICATIONS

Metric Range	Number of Anvils	Number of Spacers	Number of Sub-anvils	Metric Range	Number of Anvils	Number of Spacers	Number of Sub-anvils	Probe Depth	Inch Code No.	Metric Code No.
.24"-.4"	9	-	-	6-10mm	9	-	-	2"/40mm	485-11-1	485-11-0
.4-.7"	9	1	-	10-18mm	9	1	-	4"/100mm	485-12-1	485-12-0
.7-1.5"	10	2	-	18-35mm	9	2	-	4"/100mm	485-21-1	485-21-0
1.4-2.4"	6	3	-	35-50mm	4	4	-	6"/150mm	485-22-1	485-22-0
2-6"	11	3	1	50-160mm	12	4	1	6"/150mm	485-31-1	485-31-0
6-10"	6	5	1	160-250mm	5	5	1	16"/400mm	485-32-1	485-32-0
10-16"	6	5	2	250-400mm	5	5	2	16"/400mm	485-33-1	485-33-0

Bore Gauge Zero Checker

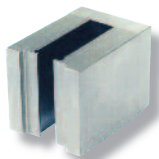
483 Series

FEATURES

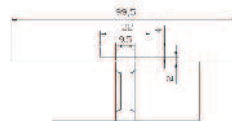
- The Bore Gauge Zero Checker allows easy zero adjustment of dial bore gauges with ranges of 18mm (.7") through 400mm (16") using gauge blocks
- High Accuracy and stable performance
- Interchangeable Supporting Blocks is for setting of various bore gauge

SPECIFICATIONS

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

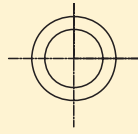


483-50-0

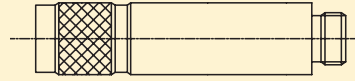


483-00-2

Accessories



Washers



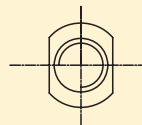
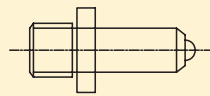
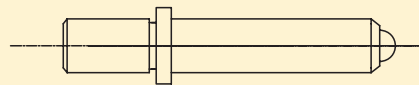
Sub-Anvils

Metric Washers and Sub-Anvils

Range	Qty.	Washers (mm)					Sub-Anvils (mm)			
		#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

Range	Washer Qty.	Washer Dimensions (in)						Extension Rod Dimensions (in)			
		#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	



Adjustment Anvils

Metric Adjustment Anvils

Anvils Range (mm)													
	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)												
	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"	10	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					

Telescoping Gauges

487 Series

FEATURES

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

487-86-9

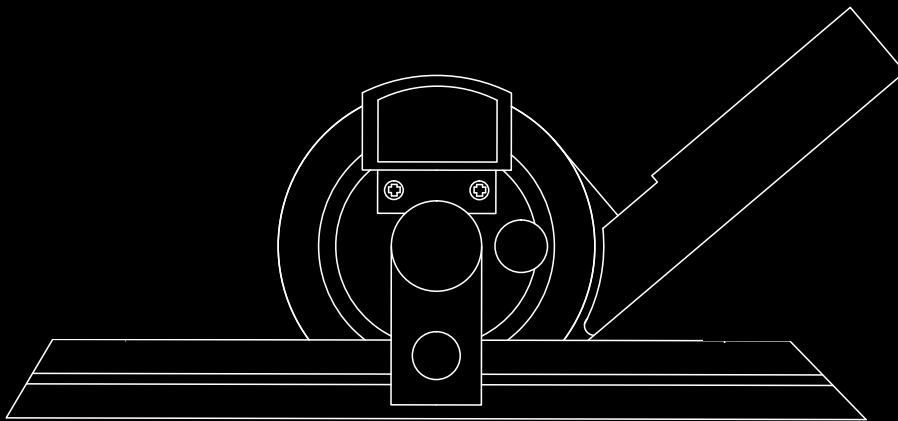


SPECIFICATIONS

	Inch	Metric				
Model	Range	Range	Depth	Code No.	Depth	Code No.
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		
4 pcs (A, B, C, D)	5/16"-2-1/8"	8-54mm		487-84-9		

Other Gauges

135	Protractors	146	Magnetic Base Protractor
135	Universal Bevel Protractors	147	Round Bar Center Finder
136	Dial Protractor	147	Wiggler Set
136	Digital Protractor	147	Pin Punch Set in Wood Case
137	Depth and Angle Gauges	148	Angle Gauges
137	Adjustable Double Squares	148	Angle Blocks
137	Combination Square Sets	149	Thread Pitch Gauges
138	Steel Squares	149	Center Gauge
138	Granite Squares	150	Radius Gauges
139	Straight Knife Edges	150	Thickness Gauges
139	5-pcs Square Sets	151	Spring Dividers and Calipers
139	Die Makers Square Set	151	Ultra Precision Wavy Parallel Set
140	Drill Point Gauges	152	Digital Protractors- Level Type
140	Adjustable Hook Rules	152	Precision Levels
140	Multi-Use Rule and Gauge	153	High Precision Metric Parallels
141	Rigid Steel Rules	153	Precision Parallel Sets
142	Flexible Steel Rules	154	Granite Surface Plates
143	Pocket Rules	155	Granite Plate Stands
143	1-2-3 ,2-3-4 & 2-4-6 Block Sets	155	Precision Surface Plate Cleaner
143	Precision Parallel Set	155	Optical Flats and Parallels
144	4-Way V-Blocks	156	Electronic Edge Finders
144	High Precision Adjustable V-Blocks	156	Edge Finders
144	Ball Bearing V-Blocks	157	Automatic Weld Size Welding Gauge
145	Cast Vee Blocks	157	Bridge Cam Welding Gauge
145	V-Blocks with Clamps	157	Universal Sliding Bevel
145	CNC Tool Setting Gauge	158	American Standard & Wire Gauges
146	7 PCS Jack Screw Set	158	Countersink Angle Gauge
146	4 PCS Machinist's Jack Set	158	Sine Bar Riser Kit





Protractors 490 Series

FEATURES

- Graduation: 1°
- Base and scale are stainless steel
- 150mm/6" arm, Ø85mm protractor
- Accuracy: ±5 min



490-01-1

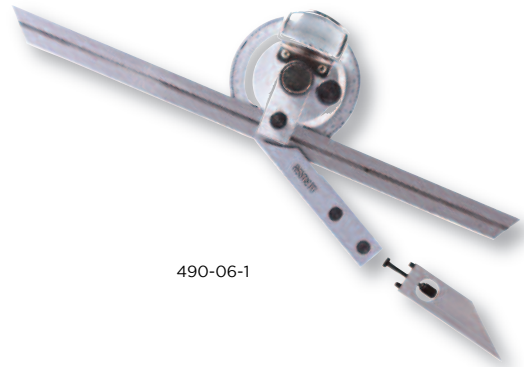
SPECIFICATIONS

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

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



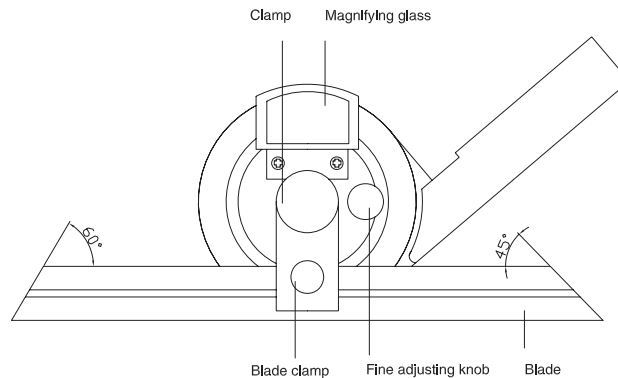
490-06-1

STANDARD ACCESSORIES

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

SPECIFICATIONS

Description	Code No.
With 150mm/6" blades	490-06-1
With 200mm/8" blades	490-06-2
With 300mm/12" blades	490-06-3
With three blades: 150mm/6", 200mm/8", 300mm/12"	490-06-0





Dial Protractor 490 Series

FEATURES

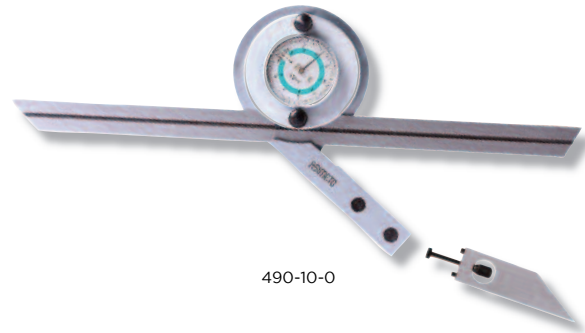
- Measuring Range: 0-360°, Graduation: 5'
- Designed with analog readout and fine adjustment to provide precise angular measurements
- Can be used with a standard height gauge to provide angular measurement from reference plate
- Accuracy: ± 5 min

STANDARD ACCESSORIES

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

SPECIFICATIONS

Blades Included	Code No.
150mm/6", 200mm/8", 300mm/12"	490-10-0



490-10-0

Digital Protractor 490 Series

FEATURES

- Resolution: 30"/0.008°
- 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 (3 pcs), Bevel Blade, Setting Square
- Warranty card, Instruction manual

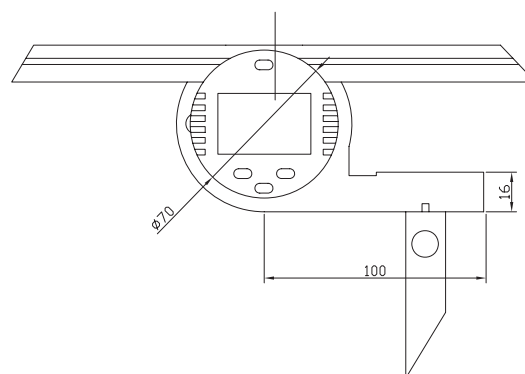
SPECIFICATIONS

Blades Included	Code No.
150mm/6", 200mm/8", 300mm/12"	490-15-0



490-15-0

LCD Display Screen





Depth and Angle Gauges

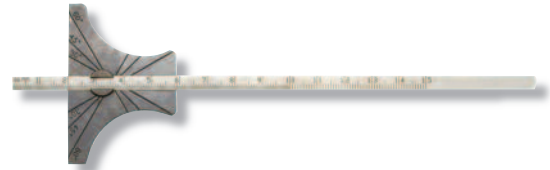
607 Series

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



Adjustable Double Squares

490 Series

FEATURES

- Ideal for precision layout work.
- Meets Federal Specifications.
- Blades are fully hardened and tempered.
- Precision ground satin chrome blades for easy reading.
- Can be used as a parallel or as a double square.
- Graduations:
 - 4R: 8ths, 16ths, 32nds, 64ths
 - 16R: 32nds, 64ths, 50ths, 100ths
 - Inch/Metric: 1mm, 64ths, 32nds, 1/2 mm

SPECIFICATIONS

Blade Length	Graduation	Code No.
4"	4R	490-30-0
4"	16R	490-30-1
4"	E/M	490-30-2
6"	4R	490-31-0
6"	16R	490-31-1
6"	E/M	490-31-2



Combination Square Sets

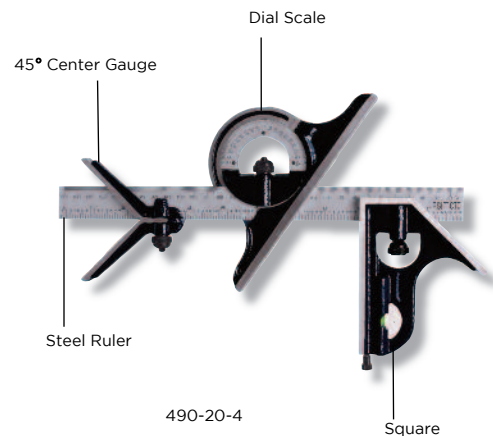
490 Series

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	490-20-4
3 pcs Set (Blades, Squares, 45° Center Gauges)	12"/300mm	490-20-3
3 pcs Set (Blades, Squares, 45° Center Gauges)	6"/150mm	490-20-6
2 pcs Set (Blades, Squares)	12"/300mm	490-20-2
2 pcs Set (Blades, Dial Scale)	12"/300mm	490-20-5
4 pcs Set (With 4R ruler)	12"/300mm	490-21-4
4 pcs Set (With 16R ruler)	12"/300mm	490-22-4





Steel Squares

639 Series

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 Wider Base, "Engineers Square"					
2" x 1.6"	50 x 40mm	0	639-31-4	00	639-31-0
3" x 2"	75 x 50mm	0	639-32-4	00	639-32-0
4" x 2.75"	100 x 70mm	0	639-33-4	00	639-33-0
6" x 4"	150 x 100mm	0	639-34-4	00	639-34-0
8" x 5"	200 x 130mm	0	639-35-4	00	639-35-0
10" x 6.5"	250 x 165mm	0	639-36-4	00	639-36-0
12" x 8"	300 x 200mm	0	639-37-4	00	639-37-0
Squares with Extra Base Regular Type					
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	-	-



639-23-0



639-24-4



639-33-4

Granite Squares

639 Series

FEATURES

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

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



639-03-0



Straight Knife Edges

639 Series

FEATURES

- Made of hardened stainless steel
- The design incorporates a precise 45 degree cross section allowing for visual inspection of surfaces
- The back edge is fitted with a thermal plastic grip to reduce the effects of heat transfer
- Straightness according to DIN874/00

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



639-73-0

5-pcs Square Set

639 Series

- Packaging: Wooden case

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



639-00-8

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; 3/4", 1-1/4", 2-3/8" 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 1PCS, Squares 3PCS	606-67-0



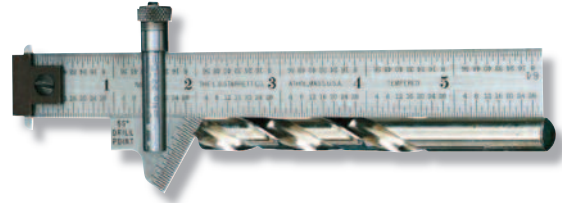


Drill Point Gauge

605 Series

FEATURES

- To check drills with 118° point angles.
- Sliding Head graduated in 32nds to verify equal length of cutting edges.
- Rule graduated in 64ths and 32nds on one side; 16ths and 8ths on reverse side.
- Removable end clip.
- Head only fits steel rules 3/4" wide x 0.040" thick.



SPECIFICATIONS

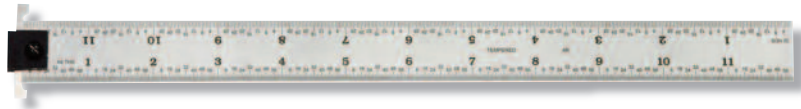
Description	Code No.
Sliding Head with 6" Rule	605-61-0
Sliding Head Only	605-61-1

Adjustable Hook Rules

605 Series

FEATURES

- Satin Chrome Finish
- Tool steel, hardened and tempered.
- Accuracy meets federal specifications.
- Hard chrome finish - no glare.
- Furnished with adjustable hook.
- Thickness: 0.040".
- Micro-fine graduations:
 4R - 8ths, 16ths, 32nds, 64ths
 16R - 32nds, 64ths, 50ths, 100ths
 E/M - 32nds, 64ths, 1/2 mm, 1 mm



SPECIFICATIONS

Range	Type	Width	Code No.
6"	4R	3/4"	605-62-0
6"	16R	3/4"	605-62-1
6"	E/M	3/4"	605-62-2
12"	4R	1"	605-62-3
12"	16R	1"	605-62-4
12"	E/M	1"	605-62-5

Multi-Use Rule and Gauge

605 Series

FEATURES

- 4" Stainless steel quick reading 64ths and metric scale.
- Drill point gauge for checking 59° angle drill points.
- Square and bevel protractor for measuring and layout.
- Center finder for locating center of shafts and circles.
- Circle divider - up to 9 equal parts: Divides circles into sectors, regular polygons, and polygrams.
- Tap drill table shows popular size taps with drill sizes for National threads.



SPECIFICATIONS

Description	Code No.
Multi-Use Rule and Gauge	605-63-0



Rigid Steel Rules

606 Series

FEATURES

- Made of hardened and tempered steel.
- Durable finishes for rust and wear durability.
- Satin Chrome: Precisely etched, then black filled.
- Easy View: Precisely etched, then white filled.
- Meets federal accuracy specifications.
- Micro-fine graduations:
 - 3R - 32nds, 64ths, 10ths, 50ths
 - 4R - 8ths, 16ths, 32nds, 64ths
 - 5R - 32nds, 64ths, 10ths, 100ths
 - 16R - 32nds, 64ths, 50ths, 100ths
 - E/M - 32nd, 64ths, 1/2 mm, 1 mm
 - D/M - 10ths, 100ths, 1/2 mm, 1 mm
 - M - 1/2 mm, 1 mm, 1/2 mm, 1 mm



SPECIFICATIONS

Range	Type	Width	Thickness	Code No.	
				Chrome Finish	Black Chrome Finish
6"	3R	3/4"	0.04"	606-10-0	606-20-0
6"	4R	3/4"	0.04"	606-10-1	606-20-1
6"	5R	3/4"	0.04"	606-10-2	606-20-2
6"	16R	3/4"	0.04"	606-10-3	606-20-3
6"/150mm	E/M	3/4"	0.04"	606-10-4	606-20-4
6"/150mm	D/M	3/4"	0.04"	606-10-5	-
150mm	M	3/4"	0.04"	606-10-6	-
12"	3R	1.0"	0.04"	606-11-0	606-21-0
12"	4R	1.0"	0.04"	606-11-1	606-21-1
12"	5R	1.0"	0.04"	606-11-2	606-21-2
12"	16R	1.0"	0.04"	606-11-3	606-21-3
12"/300mm	E/M	1.0"	0.04"	606-11-4	606-21-4
12"/300mm	D/M	1.0"	0.04"	606-11-5	-
300mm	M	1.0"	0.04"	606-11-6	-
18"	3R	1-1/8"	0.04"	606-12-0	606-22-0
18"	4R	1-1/8"	0.04"	606-12-1	606-22-1
18"	5R	1-1/8"	0.04"	606-12-2	606-22-2
18"	16R	1-1/8"	0.04"	606-12-3	606-22-3
18"/450mm	E/M	1-1/8"	0.04"	606-12-4	606-22-4
18"/450mm	D/M	1-1/8"	0.04"	606-12-5	-
450mm	M	1-1/8"	0.04"	606-12-6	-
24"	3R	1-1/8"	0.04"	606-13-0	606-23-0
24"	4R	1-1/8"	0.04"	606-13-1	606-23-1
24"	5R	1-1/8"	0.04"	606-13-2	606-23-2
24"	16R	1-1/8"	0.04"	606-13-3	606-23-3
24"/600mm	E/M	1-1/8"	0.04"	606-13-4	-
24"/600mm	D/M	1-1/8"	0.04"	606-13-5	-
600mm	M	1-1/8"	0.04"	606-13-6	-
36"	4R	1-1/4"	0.04"	606-14-0	-
36"	5R	1-1/4"	0.04"	606-14-1	-
36"	16R	1-1/4"	0.04"	606-14-2	-
36"/900mm	E/M	1-1/4"	0.04"	606-14-3	-
900mm	M	1-1/4"	0.04"	606-14-4	-
48"	4R	1-1/4"	0.04"	606-15-0	-
48"/1200mm	E/M	1-1/4"	0.04"	606-15-1	-



Flexible Steel Rules

606 Series

FEATURES

- Made of hardened and tempered steel.
 - Durable finishes for rust and wear durability.
 - Satin Chrome: Precisely etched, then black filled.
 - Easy View: Precisely etched, then white filled.
 - Meets federal accuracy specifications.
- Graduations:
 - 3R - 32nds, 64ths, 10ths, 50ths
 - 4R - 8ths, 16ths, 32nds, 64ths
 - 5R - 32nds, 64ths, 10ths, 100ths
 - 16R - 32nds, 64ths, 50ths, 100ths
 - E/M - 32nd, 64ths, 1/2 mm, 1 mm
 - *D/M - 10ths, 50ths, 1/2 mm, 1 mm
 - †D/M - 10ths, 100ths, 1/2 mm, 1 mm
 - M - 1/2 mm, 1 mm, 1/2 mm, 1 mm



SPECIFICATIONS

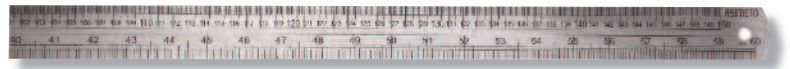
Range	Type	Width	Thickness	Code No.	
				Chrome Finish	Black Chrome Finish
6"	3R	1/2"	0.02"	606-40-0	606-70-0
6"	4R	1/2"	0.02"	606-40-1	606-70-1
6"	5R	1/2"	0.02"	606-40-2	606-70-2
6"	16R	1/2"	0.02"	606-40-3	606-70-3
6"/150mm	E/M	1/2"	0.02"	606-40-4	606-70-4
6"/150mm	†D/M	1/2"	0.02"	606-40-5	606-70-5
6"/150mm	*D/M	1/2"	0.02"	606-40-6	-
150mm	M	1/2"	0.02"	606-40-7	-
12"	3R	1/2"	0.02"	606-41-0	-
12"	4R	1/2"	0.02"	606-41-1	606-71-1
12"	5R	1/2"	0.02"	606-41-2	606-71-2
12"	16R	1/2"	0.02"	606-41-3	606-71-3
12"/300mm	E/M	1/2"	0.02"	606-41-4	606-71-4
12"/300mm	*D/M	1/2"	0.02"	606-41-5	-
12"/300mm	†D/M	1/2"	0.02"	606-41-6	-
300mm	M	1/2"	0.02"	606-41-7	-
18"	3R	3/4"	0.02"	606-42-0	606-72-0
18"	4R	3/4"	0.02"	606-42-1	606-72-1
18"	5R	3/4"	0.02"	606-42-2	606-72-2
18"	16R	3/4"	0.02"	606-42-3	606-72-3
18"/450mm	E/M	3/4"	0.02"	606-42-4	606-72-4
18"/450mm	†D/M	3/4"	0.02"	606-42-5	-
450mm	M	3/4"	0.02"	606-42-6	-
24"	3R	3/4"	0.02"	606-43-0	606-73-0
24"	4R	3/4"	0.02"	606-43-1	606-73-1
24"	5R	3/4"	0.02"	606-43-2	606-73-2
24"	16R	3/4"	0.02"	606-43-3	606-73-3
24"/600mm	E/M	3/4"	0.02"	606-43-4	606-73-4
24"/600mm	†D/M	3/4"	0.02"	606-43-5	-
600mm	M	3/4"	0.02"	606-43-6	-
36"	4R	3/4"	0.02"	606-44-0	-
36"	5R	3/4"	0.02"	606-44-1	-
36"	16R	3/4"	0.02"	606-44-2	-
36"/900mm	E/M	3/4"	0.02"	606-44-3	-
900mm	M	3/4"	0.02"	606-44-4	-
48"	4R	3/4"	0.02"	606-45-0	-
48"	5R	3/4"	0.02"	606-45-1	-
48"	16R	3/4"	0.02"	606-45-2	-
48"/1200mm	E/M	3/4"	0.02"	606-45-3	-
1200mm	M	3/4"	0.02"	606-45-4	-
72"	4R	1"	0.02"	606-46-0	-
72"	16R	1"	0.02"	606-46-1	-



Flexible Steel Rules 606 Series

FEATURES

- Made of hardened tool steel



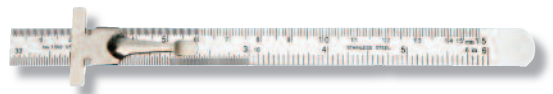
SPECIFICATIONS

Inch		Metric		Width	Thickness	Code No.
Range	Graduation	Range	Graduation			
12"	1/16 ths	300mm	1mm	25mm	1mm	606-01-0
24"	1/16 ths	600mm	1mm	30mm	1.2mm	606-02-0
40"	1/16 ths	1000mm	1mm	32mm	1.5mm	606-03-0
60"	1/16 ths	1500mm	1mm	38mm	1.8mm	606-04-0
80"	1/16 ths	2000mm	1mm	40mm	2.0mm	606-05-0

Pocket Rules 607 Series

FEATURES

- Stainless Steel
- Hardened and tempered.
- Includes pocket clip.
- Rule graduated in 64ths and 32nds on one side; 16ths and 8ths on reverse side.
- Removable end clip.
- Head only fits steel rules 3/4" wide x 0.040" thick.
- Micro-fine graduations:
10R/D - 32nds, 64ths, Decimal equivalent chart on opposite face
10R - 32nds, 64ths
Eng./Met./D - 64ths, mm, Decimal equivalent chart on opposite face



SPECIFICATIONS

Range	Type	Width	Code No.
6"	10R/D	1/2"	607-57-0
6"	10R	1/4"	607-57-1
6"	E/M/D	1/2"	607-57-2

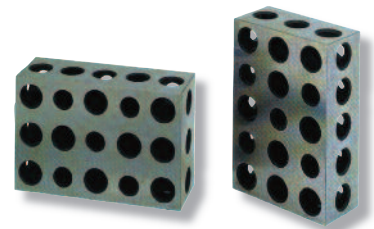
1-2-3, 2-3-4 & 2-4-6 Block 607 Series

FEATURES

- Matched pair.
- Hardened steel to RC 55-60, ground to surface finish 6-16 microinches.
- Squareness: 0.0002"

SPECIFICATIONS

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



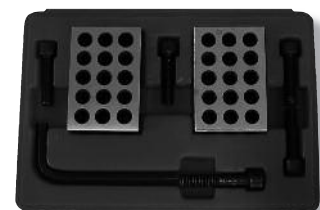
1-2-3 Block Sets 607 Series

FEATURES

- Matched pair.
- Squareness: 0.0001"
- Parallelism: 0.0001"
- Height accuracy in Pair: +/-0.0001"
- Hardness HRC 56-60.
- 5 piece 3/8"-16 socket head cap screws and 1 piece hex key.
- Supplied in plastic case.

SPECIFICATIONS

Code No.
607-01-6





4-Way V-Blocks

607 Series

FEATURES

- Manufactured from close grained cast iron.
- Precisely machined and ground square and parallel within 0.0008".
- V-groove parallel to bearing surface within 0.0008".
- Each V-Block has 4 different size V's, supporting a large range of diameters.
- Furnished in matched and numbered pairs.
- V angle: 90° (with 1/8" groove at bottom of V).

SPECIFICATIONS

Length	Height	Width	V Openings	Code No.
3-3/4"	2-3/4"	1-3/8"	13/16", 1-1/4", 1-1/16", 2"	607-04-0
4"	4"	1-5/32"	7/8", 1-1/4", 1-5/8", 2"	607-05-0
4-3/4"	4-3/4"	1-3/8"	1-1/4", 1-5/8", 2-1/8", 2-1/2"	607-06-0



High Precision Adjustable V-Blocks

607 Series

FEATURES

- Precision made tool that performs all of the functions normally requiring the use of various blocks, shims, or non-precision machinist jacks. Supports single and multiple diameter shafts, bars, etc. by quickly adjusting height.
- Wide 120 degree angle with 2-3/4" opening. Accommodates diameters from 3/16 to 5 inches
- Top faces are precision ground parallel to the base
- Position lock prevents vibration creeping.
- Total height adjustment 9/16", 0.050" per revolution, 0.001" dial increments.
- Base dimensions: 4" W x 1-3/4" L, V opening: 2-3/4", 1-3/16" wide.
- Height: approximately 3" closed, 3-9/16" opened.

SPECIFICATIONS

Description	Code No.
2 PCS Set	607-07-0



Ball Bearing V-Blocks

607 Series

FEATURES

- Ideal for use where inspection set-ups are not possible using plain V-Blocks. This unique product allows you to inspect and detect out of round conditions, defects, and lobes without damage to parts or blocks.
- Accuracy of ball sphericity:
0.000025" on small and medium sets
0.00005" on large set
- Balls finished to .2 micro inches, hardened to 62 RC.
- Overall accuracy of matched pairs: 35 microns
- Case iron base and housing are heat stabilized and seasoned
- Sold in pairs with clamps and test ball
- Base dimensions:
Small Pair: 2-3/16" square x 1-1/16" O/A height
Medium Pair: 3-3/8" square x 1-5/8" O/A height
Large Pair: 4-3/4" square x 2-1/2" O/A height

SPECIFICATIONS

Description	Cap. Range	Ball Dia.	Wt. Cap. (Lbs.)	Code No.
Small Pair	3/64 - 2-1/4"	1/2"	220	607-21-0
Medium Pair	3/32" - 5"	15/16"	1100	607-22-0
Large Pair	3/16" - 15"	1-1/2"	2000	607-23-0





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: 0.0005"
 - Parallelism: 0.0008"
 - Perpendicularity: 0.0008"



SPECIFICATIONS

Width	V-Opening	Height	Length	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
7-7/8"	4-6/17"	5-1/2"	3-15/16"	6-1/4"	607-75-0
9-7/8"	4-15/16"	6-1/2"	4-15/16"	6-15/16"	607-76-0
11-13/16"	5-1/16"	7-7/8"	5-15/16"	7-1/16"	607-77-0

V-Blocks with Clamp

606 Series

FEATURES

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



606-60-0



606-60-6

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

CNC Tool Setting Gauges

607 Series

FEATURES

- Designed for use on CNC slant bed machines.
- Accurately sets turning, boring and facing tools on the centerline of the workpiece.
- Adjustable to any slant angle (360°).
- 607-03-0 includes easy-to-read laser etched protractor.

SPECIFICATIONS

Description	Code No.
Tool Setting Gauge	607-02-0
Deluxe Tool Setting Gauge	607-03-0





7 PCS Jack Screw Set

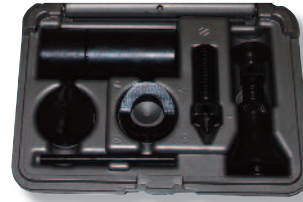
607 Series

FEATURES

- 2-1/4" - 3-1/4" range screw adjustment with added 1" and 2" extensions which can be used together or separately.
- Swivel cap and pointed screw for different applications.
- 1,000 pounds weight capacity.

SPECIFICATIONS

Code No.
607-25-0



4 PCS Machinist's Jack Set

607 Series

FEATURES

- Use anywhere leveling is necessary.
- Adjustable screw with tilting swivel head.
- 1" adjustment.
- 3" high min. and 4" high max.
- 1,000 pounds weight capacity.

SPECIFICATIONS

Code No.
607-26-0



Magnetic Base Protractor

607 Series

FEATURES

- Machined V-Base and leg ends have strong magnetic pull making it easy to secure to the work piece.
- Used for tool rooms and machine shops to find center of round stock and to make angular adjustments.
- 2-3/8" dial face has machine-divided graduations to 1 degree in four 90° quadrants.
- Maximum V-Opening: 3-3/16".
- Overall length of legs: 4-13/16"
- Accuracy: ±3 minutes.

SPECIFICATIONS

Code No.
607-27-0





Round Bar Center Finder

607 Series



FEATURES

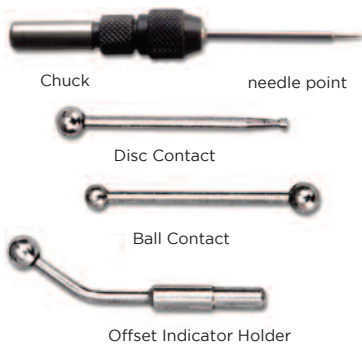
- Accurately and quickly locates the center of round work pieces.
- Shank is held in collet or chuck and center is easily indicated by visual alignment of etched lines.
- Satin chrome finish.
- 3" capacity.

SPECIFICATIONS

Code No.
607-28-0

Wiggler Set

607 Series



FEATURES

- Versatile Center & Edge Finder with 4 interchangeable attachments which snap conveniently into the special chuck.
- Ball swivel joint permits adjustments to an angular position or true concentricity.
- Set includes offset indicator holder, ball contact attachment- 0.250" dia., disc contact attachment- 0.100" dia. and needle point attachment.

Code No. : 607-29-0		
Replacement Attachments	Description	Code No.
Chuck		607-29-1
Needle Point	Length: Closed 2-3/8", Open: 4-1/8"	607-29-2
Ball Contact	Shank Dia.: 3/8", Ball Dia.: 0.250"	607-29-3
Disc Contact	0.100" Dia.	607-29-4
Offset Indicator Holder		607-29-5

Pin Punch Set in Wood Case

607 Series



SPECIFICATIONS

Description	Specification	Code No.
8 PCS Pin Punch Set	1/16, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16"	607-50-0



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

Angle Blocks

605 Series

FEATURES

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



605-06-0

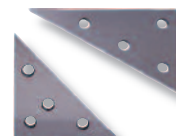
SPECIFICATIONS

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

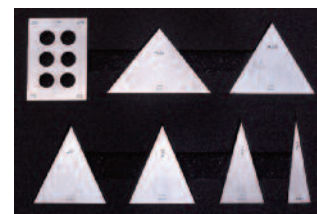
Size	Thickness	Angle	Accuracy	Code No.
3x3x4-3/8"	1/4"	45°x 45°x 90°	±0.01°	605-06-2
2x3-15/16x4"	1/4"	30°x 60°x 90°		



605-06-2

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



605-06-3



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 - 84 by 2 , 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
0.5 - 6mm 4 - 56 TPI	28	0.5, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6mm 4, 6, 7, 8, 10, 11, 11-1/2, 12, 13, 16, 20, 28, 32 TPI	605-51-8

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, 20, 22, 24, 26, 27, 28, 30, 32, 34, 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



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



Code No. 605-60-0



Radius Gauges

605 Series

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"	18 pairs	1/32" - 17/64" x 1/64" step	90° arc.	605-40-1
1/32" - 1/4"	15 pairs	1/32" - 1/4" x 1/64" step	180° arc.	605-41-1
17/64" - 1/2"	16 pairs	17/64" - 1/2" x 1/64" step	180° arc.	605-42-1
9/32" - 33/64"	16 pairs	9/32" - 33/64" x 1/64" step	90° arc.	605-43-1
1/64" - 1/2"	25 pairs	1/64" - 17/64" x 1/64" step, 9/32" - 1/2" x 1/32" step	-	605-44-1
0.5 - 13mm	26 pairs	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



Thickness Gauges

605 Series

FEATURES

- Each leaf is marked with its thickness
 - Each leaf is detachable if necessary
 - Metric thickness gauges are available with tapered leaves
- Please add "T" at the end of Code No., e.g. 605-31-0T

SPECIFICATIONS

Range	Qty.	Composition of Leaves	Types of Leaves	Blade length	Code No.
Inch					
.002" - .035"	26	.002" - .018" x .001" step .022", .024", .025", .08", .030", .032", .035"	Straight, 1/2" width	3"	605-30-1
.0015" - .025"	26	.002" - .025" by .001" ,.0015", .0025"	Tapered, 1/4" width	3"	605-31-1
.0015" - .200"	15	.0015", .002", .003", .004", .006", .008", .010", .012", .015", .020", .030", .040", .075", .100", .200"	Straight, 1/2" width	3"	605-32-1
.0015" - .200"	13	.0015", .002", .003", .004", .006", .008", .010", .020", .030", .040", .075", .100", .200"	Straight, 1/2" width	4.5"	605-33-1
Metric					
0.05 - 1mm	20	0.05mm - 1mm x 0.05mm step	Straight, 13mm width	150mm	605-31-0
0.05 - 1mm	13	0.05mm - 0.3mm x 0.05mm step 0.4mm - 1mm x 0.1mm step	Straight, 13mm width	100mm	605-33-0
				150mm	605-33-2
0.05 - 0.8mm	10	0.05mm - 0.2mm x 0.05mm step, 0.3mm - 0.8mm x 0.1mm step	Straight, 13mm width	100mm	605-34-0
				150mm	605-34-2



605-31-1

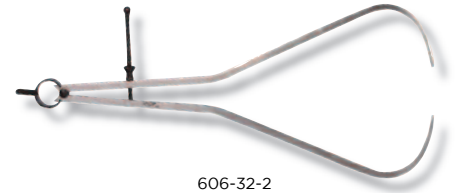


Spring Dividers and Calipers

606 Series

FEATURES

- Manufactured from hardened durable material
- Contact surfaces are rounded



606-32-2

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



606-32-4



606-32-0

Ultra Precision Wavy Parallel Set

607 Series

FEATURES

- Made of high quality spring steel, hardened, stress relieved, and precision ground.
- Parallel within $\pm 0.0002"$, paired $\pm 0.0002"$.
- Includes 9 pairs 4-1/4" long with the following heights: 1/2, 5/8, 3/4, 7/8, 1, 1-1/8, 1-1/4, 1-3/8, 1-1/2".
- Shims can be compressed, which proves useful in the holding of thin parts.

SPECIFICATIONS

Description	Code No.
Ultra Precision Wavy Parallel Set	607-66-0





Digital Protractors - Level Type

490 Series

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



490-16-0

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

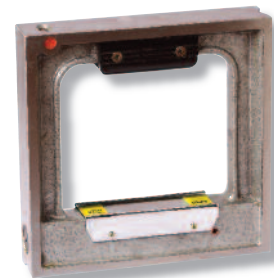
606 Series

FEATURES

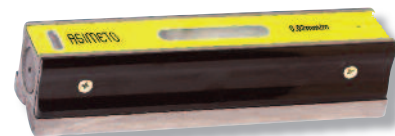
- All measuring surfaces of the square models are precision ground to facilitate readings at both horizontal and vertical planes

SPECIFICATIONS

Range	Sensitivity	Code No.
Straight Models		
200 x 47mm	0.10mm/m	606-51-0
200 x 47mm	0.05mm/m	606-51-5
200 x 47mm	0.02mm/m	606-51-2
300 x 55mm	0.10mm/m	606-52-0
300 x 55mm	0.05mm/m	606-52-5
300 x 55mm	0.02mm/m	606-52-2
Square Models		
200 x 200 x 40mm	0.10mm/m	606-53-0
200 x 200 x 40mm	0.05mm/m	606-53-5
200 x 200 x 40mm	0.02mm/m	606-53-2
300 x 300 x 46mm	0.10mm/m	606-54-0
300 x 300 x 46mm	0.05mm/m	606-54-5
300 x 300 x 46mm	0.02mm/m	606-54-2



606-53-0

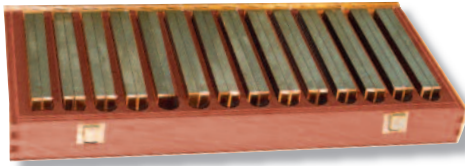


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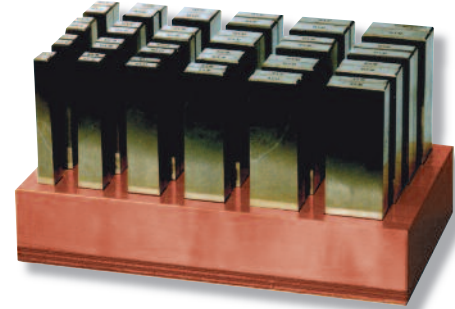


High Precision Metric Parallels

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, 6x9mm, 2x10, 3x11, 4x12, 5x13, 6x14mm, 2x15, 3x16, 4x17, 5x18, 6x19mm, 2x20, 3x21, 4x22, 5x23, 6x24mm	100mm	20	663-11-0
8x11, 10x13, 12x15, 14x17mm, 8x16, 10x18, 12x20, 14x22mm, 8x21, 10x23, 12x25, 14x27mm, 8x26, 10x28, 12x30, 14x32mm, 8x31, 10x33, 12x35, 14x37mm, 8x36, 10x38, 12x40, 14x42mm	125mm	24	663-12-0
	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"	$\pm 0.0003"$	$\pm 0.0003"$	$\pm 0.0008"$	607-08-0
9 Pair Parallel Set	3/4" to 1-3/4" in 1/8" increments.	1/4"	$\pm 0.0002"$	$\pm 0.0002"$	$\pm 0.0008"$	607-09-0
10 Pair Parallel Set	1/2" to 1-5/8" in 1/8" increments.	1/8"	$\pm 0.0002"$	$\pm 0.0002"$	$\pm 0.0008"$	607-10-0
10 Pair Parallel Set	1/2" to 1-5/8" in 1/8" increments.	1/32"	$\pm 0.0002"$	$\pm 0.0002"$	$\pm 0.0008"$	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.
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

Precision Surface Plate Cleaner

607 Series

FEATURES

- An exclusive formulation that is extremely effective for the cleaning and care of Granite Surface Plates.
- Works quickly and effectively, leaves no residue on the granite.



SPECIFICATIONS

Description	Code No.
Pint	607-51-0
Pint Spray Pump	607-52-0
Quart	607-53-0
1/2 Gallon	607-54-0
Gallon	607-55-0
5 Gallon	607-56-0

Optical Flats and Parallels

605 Series

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	0.1µm	605-51-1
Ø60 x 20mm	0.2µm	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



605-51-1



605-52-1



Electronic Edge Finders

607 Series



607-15-0

FEATURES

- Repeatability: 0.002".
- Reads off any electrically conductive metal.
- Cylindrical style head.
- 1/2" shank.
- Furnished with LED indicator.

Code No.
607-15-0



607-16-0

FEATURES

- T.I.R. within 0.0002".
- Precision ground on all surfaces.
- Four highly visible LED lights.
- One-piece construction for strength and accuracy.
- Head diameter: 0.400"; 3/4" shank.

Code No.
607-16-0



607-17-0

FEATURES

- Use on any electrically conductive material.
- Highly accurate – repeatability: 0.0002".
- Bright LED with six equally spaced light ports.

Code No.
607-17-0

Edge Finders

607 Series



607-30-0



607-40-0



607-41-0



607-32-0

FEATURES

- Hardened and ground all over.
- Accurately locates the starting point for all types of machine work and jig boring.

SPECIFICATIONS

Description	Shank Dia.	Tip Dia.	Code No.
Edge Finder (EF1)	3/8"	0.200"	607-30-0
Edge Finder (EF2)	1/2"	0.200"	607-31-0
Edge Finder (EF3)	1/2"	0.500"	607-32-0
Edge Finder (EF4)	10mm / 3/8"	10mm	607-33-0
Edge Finder (EF5)	10mm	10mm	607-34-0
Center Finder (EF6)	3/8"		607-35-0
Center Finder (EF7)	1/2"		607-36-0
Combo Edge/Center Finder (EF8)	3/8"	0.200"	607-37-0
Combo Edge/Center Finder (EF9)	1/2"	0.200"	607-38-0
Sets			
4 Pcs Set	EF1, EF3, EF5, EF8		607-40-0
4 Pcs Set	EF2, EF6, EF7, EF9,		607-41-0



607-35-0

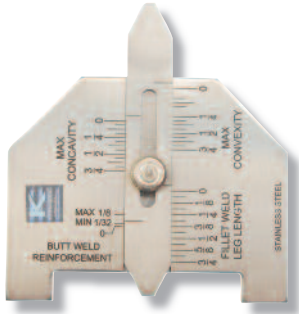


607-37-0



Automatic Weld Size Welding Gauge

607 Series



FEATURES

- For accurate inspection of butt and fillet type welds. Checks size of fillet welds, permissible tolerance of convexity, concavity, and reinforcement of butt welds.
- Stainless steel, pocket size construction.
- Inch readings
- Convexity and concavity sizes preset in accordance with AWS D1-1.

SPECIFICATIONS

Code No.

607-63-0

Bridge Cam Welding Gauge

606 Series



FEATURES

- This versatile cam-type weld gauge can be used for checking surfaces, angles, depths, etc.
- Can measure fit-up bevels, weld reinforcement, fillet weld leg length, undercuts and pits, throat of fillet weld, angles to 60° height of weld metal, and misalignments.
- High quality stainless steel construction.
- Quick and accurate measurement of most common weld sizes.
- Readings in Inch and Metric.
- Adjustable scale compensates for wear on pointer.

SPECIFICATIONS

Code No.

606-64-0

Universal Sliding Bevel

606 Series



FEATURES

- Straight slot allows for a wide variety of adjustments and angle settings not easily obtained with ordinary bevels
- Contains straight and offset slots on 6" adjustable blade.
- Duplicate any angle.
- Handle is 3-1/2" long with a straight slot.

SPECIFICATIONS

Code No.

606-65-0



American Standard & Wire Gauges

607 Series

FEATURES

- Made of heavy gauge hardened steel 62 RC.
- Satin chrome finish, no glare.
- Gaging slots meet Federal Specifications.
- Front face shows gauge size, back shows decimal equivalents adjacent to each slot.



SPECIFICATIONS

Description	Code No
American Standard and B&S Gauge for measuring wire diameter and non-ferrous sheets with copper, aluminum and wrought iron.	607-60-0
U.S. Standard Gauge for measuring steel, plate iron and uncoated sheet metal.	607-61-0

Countersink Angle Gauge

607 Series

FEATURES

- Easily verifies countersink angles.
- Graduated in 32nds for depth measurement.
- Standard angles are 60, 82, 90, 100, 110 and 120°.

SPECIFICATIONS

Code No
607-62-0



Sine Bar Riser Kit

605 Series

FEATURES

Sine Bar:

- 5" length, 1" body size.
- Hardened and ground steel.
- Top parallel to bottom of rolls within 0.0002".

Riser:

- 18 risers: 1/2, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 1/4T and 1/2T.
- Within 0.0001" of exact constants.
- Note: Risers to be used individually, not to be stacked.
1/4T and 1/2T are to obtain angle of 1/4" and 1/2" taper per foot respectively.

SPECIFICATIONS

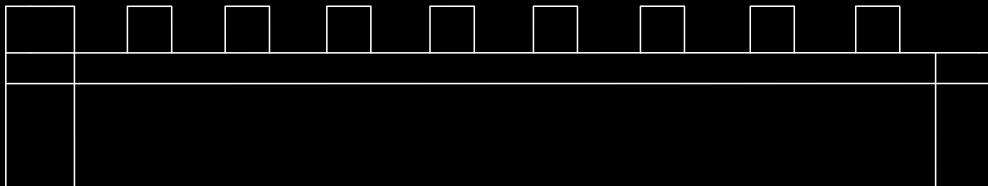
Description	Code No.
Sine Bar with Riser Kit	605-73-0





Gauges

- 161 Rectangular Gauge Block Sets
- 163 Rectangular Steel Gauge Block Sets
- 164 Inch Individual Rectangular Gauge Blocks
- 165 Metric Individual Rectangular Gauge Blocks
- 167 Caliper Calibration Gauge Sets
- 167 Micrometer Calibration Gauge Sets
- 168 Gauge Block Accessories
- 169 Check Masters
- 170 Plug Gauges and Ring Gauges
- 171 Thread Plug Gauges and Ring Gauges
- 173 Whitworth Pipe Thread Gauges
- 173 NPT Thread Gauges
- 173 Inch Master Setting Ring Gauges
- 174 ANSI Inch Thread Plug Gauges and Ring Gauges
- 175 TiN-coated ANSI Inch Thread Plug Gauges
- 176 ANSI Metric Thread Plug Gauges and Ring Gauges
- 177 TiN-coated ANSI Metric Thread Plug Gauges
- 178 Individual Inspection Gauge Balls
- 178 Precision Inspection Gauge Ball Sets
- 179 36 Pc. Round Space Block Set
- 179 Thread Measuring Wire Set
- 180 Individual Pin Gauges
- 180 Pin Gauge Sets
- 181 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 N.I.S.T or P.T.B 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	Former grade	Steel	Ceramic
				Code No.	Code No.
81 (ASME)	1 Block: 0.050" 10 Blocks: 0.1000"-0.1009" x 0.0001" step 49 Blocks: 0.101"-0.149" x 0.001" step 17 Blocks: 0.150"-0.950" x 0.050" step 4 Blocks: 1.000"-4.000" x 1.000" step	0	2	650-01-0	650-51-0
		AS-1	3	650-01-1	650-51-1
		AS-2	B	650-01-2	-
36 (ASME)	1 Block: 0.050" 10 Blocks: 0.1000"-0.1009" x 0.0001" step 9 Blocks: 0.101"-0.109" x 0.001" step 9 Blocks: 0.110"-0.190" x 0.010" step 4 Blocks: 0.200"-0.500" x 0.100" step 3 Blocks: 1", 2", 4"	0	2	650-02-0	650-52-0
		AS-1	3	650-02-1	650-52-1
		AS-2	B	650-02-2	-

Metric

1 mm base set

Blocks Per Set	Blocks Included In Set	Grade	Steel	Ceramic
			Code No.	Code No.
122 (ASME / DIN / JIS / GB)	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
		AS-1	3	650-11-3
112 (ASME / DIN / JIS / GB)	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 (ASME / DIN / JIS / GB)	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 (ASME / DIN / JIS / GB)	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 (ASME / DIN / JIS / GB)	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 (ASME / DIN / JIS / GB)	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 (ASME / DIN / JIS / GB)	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 (ASME / DIN / GB)	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 (JIS)	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 (ASME / DIN / JIS / GB)	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 (ASME / DIN / JIS / GB)	1 Block: 1.0005 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 (ASME / DIN / JIS / GB)	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 (ASME / DIN / JIS / GB)	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 (ASME / DIN / JIS / GB)	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 (ASME / DIN / JIS / GB)	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 0.001 mm base set

Blocks Per Set	Blocks Included In Set	Grade	Steel	Ceramic
			Code No.	Code No.
18 (ASME / DIN / JIS / GB)	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 (ASME / DIN / JIS / GB)	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 (ASME / DIN / JIS / GB)	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	ASME / 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: 1.0005mm 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	650-30-0	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 (ASME / DIN / JIS / GB)	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 (ASME / DIN / JIS / GB)	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 (ASME / DIN / JIS / GB)	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

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



651-87-0

SPECIFICATIONS

Size	Steel		Ceramic
	Grade 0	Grade 1	Grade 0
0.05"	651-01-0	651-01-1	655-01-0
0.05005"	651-02-0	651-02-1	655-02-0
0.0503"	651-03-0	651-03-1	655-03-0
0.0506"	651-04-0	651-04-1	655-04-0
0.0507"	651-05-0	651-05-1	655-05-0
0.0508"	651-06-0	651-06-1	655-06-0
0.0509"	651-07-0	651-07-1	655-07-0
0.052"	651-08-0	651-08-1	655-08-0
0.053"	651-09-0	651-09-1	655-09-0
0.054"	651-10-0	651-10-1	655-10-0
0.055"	651-11-0	651-11-1	655-11-0
0.056"	651-12-0	651-12-1	655-12-0
0.058"	651-13-0	651-13-1	655-13-0
0.06"	651-14-0	651-14-1	655-14-0
0.1"	651-15-0	651-15-1	655-15-0
0.10005"	651-16-0	651-16-1	655-16-0
0.1001"	651-17-0	651-17-1	655-17-0
0.1002"	651-18-0	651-18-1	655-18-0
0.1003"	651-19-0	651-19-1	655-19-0
0.1004"	651-20-0	651-20-1	655-20-0
0.1005"	651-21-0	651-21-1	655-21-0
0.1006"	651-22-0	651-22-1	655-22-0
0.1007"	651-23-0	651-23-1	655-23-0
0.1008"	651-24-0	651-24-1	655-24-0
0.1009"	651-25-0	651-25-1	655-25-0
0.101"	651-26-0	651-26-1	655-26-0
0.102"	651-27-0	651-27-1	655-27-0
0.103"	651-28-0	651-28-1	655-28-0
0.104"	651-29-0	651-29-1	655-29-0
0.105"	651-30-0	651-30-1	655-30-0
0.106"	651-31-0	651-31-1	655-31-0
0.107"	651-32-0	651-32-1	655-32-0
0.108"	651-33-0	651-33-1	655-33-0
0.109"	651-34-0	651-34-1	655-34-0
0.11"	651-35-0	651-35-1	655-35-0
0.111"	651-36-0	651-36-1	655-36-0

Size	Steel		Ceramic
	Grade 0	Grade 1	Grade 0
0.112"	651-37-0	651-37-1	655-37-0
0.113"	651-38-0	651-38-1	655-38-0
0.114"	651-39-0	651-39-1	655-39-0
0.115"	651-40-0	651-40-1	655-40-0
0.116"	651-41-0	651-41-1	655-41-0
0.117"	651-42-0	651-42-1	655-42-0
0.118"	651-43-0	651-43-1	655-43-0
0.119"	651-44-0	651-44-1	655-44-0
0.12"	651-45-0	651-45-1	655-45-0
0.121"	651-46-0	651-46-1	655-46-0
0.122"	651-47-0	651-47-1	655-47-0
0.123"	651-48-0	651-48-1	655-48-0
0.124"	651-49-0	651-49-1	655-49-0
0.125"	651-50-0	651-50-1	655-50-0
0.126"	651-51-0	651-51-1	655-51-0
0.127"	651-52-0	651-52-1	655-52-0
0.128"	651-53-0	651-53-1	655-53-0
0.129"	651-54-0	651-54-1	655-54-0
0.13"	651-55-0	651-55-1	655-55-0
0.131"	651-56-0	651-56-1	655-56-0
0.132"	651-57-0	651-57-1	655-57-0
0.133"	651-58-0	651-58-1	655-58-0
0.134"	651-59-0	651-59-1	655-59-0
0.135"	651-60-0	651-60-1	655-60-0
0.136"	651-61-0	651-61-1	655-61-0
0.137"	651-62-0	651-62-1	655-62-0
0.138"	651-63-0	651-63-1	655-63-0
0.139"	651-64-0	651-64-1	655-64-0
0.14"	651-65-0	651-65-1	655-65-0
0.141"	651-66-0	651-66-1	655-66-0
0.142"	651-67-0	651-67-1	655-67-0
0.143"	651-68-0	651-68-1	655-68-0
0.144"	651-69-0	651-69-1	655-69-0
0.145"	651-70-0	651-70-1	655-70-0
0.146"	651-71-0	651-71-1	655-71-0
0.147"	651-72-0	651-72-1	655-72-0

Size	Steel		Ceramic
	Grade 0	Grade 1	Grade 0
0.148"	651-73-0	651-73-1	655-73-0
0.149"	651-74-0	651-74-1	655-74-0
0.15"	651-75-0	651-75-1	655-75-0
0.16"	651-76-0	651-76-1	655-76-0
0.17"	651-77-0	651-77-1	655-77-0
0.18"	651-78-0	651-78-1	655-78-0
0.19"	651-79-0	651-79-1	655-79-0
0.2"	651-80-0	651-80-1	655-80-0
0.21"	651-81-0	651-81-1	655-81-0
0.25"	651-82-0	651-82-1	655-82-0
0.3"	651-83-0	651-83-1	655-83-0
0.35"	651-84-0	651-84-1	655-84-0
0.4"	651-85-0	651-85-1	655-85-0
0.45"	651-86-0	651-86-1	655-86-0
0.5"	651-87-0	651-87-1	655-87-0
0.55"	651-88-0	651-88-1	655-88-0
0.6"	651-89-0	651-89-1	655-89-0
0.65"	651-90-0	651-90-1	655-90-0
0.7"	651-91-0	651-91-1	655-91-0
0.75"	651-92-0	651-92-1	655-92-0
0.8"	651-93-0	651-93-1	655-93-0
0.85"	651-94-0	651-94-1	655-94-0
0.9"	651-95-0	651-95-1	655-95-0
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

FEATURES

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



659-31-1

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

Micrometer Calibration Gauge Sets

659 Series

FEATURES

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



659-71-1

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

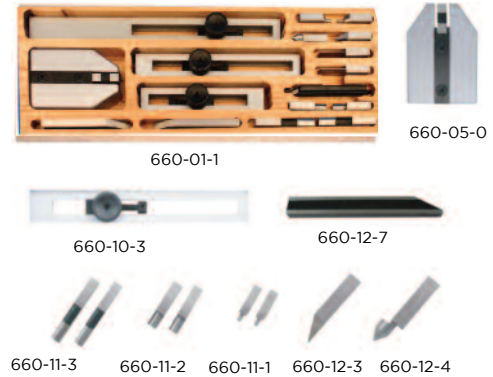
660 Series

FEATURES

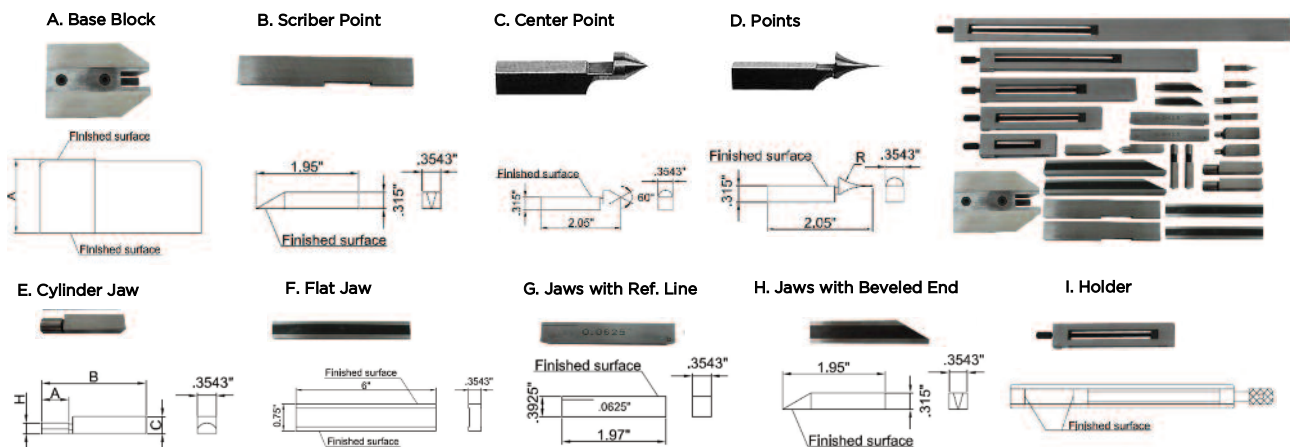
- The gauge block accessory set is used to firmly connect rectangular gauge blocks with the gauge holding devices. A series of universal precision measuring surfaces and base are provided to increase the measurement flexibility

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 pcs	1 pcs	660-10-1
	0-100mm	1 pcs	1 pcs	660-10-2
	100-200mm	1 pcs	1 pcs	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 pcs	1 pcs	660-12-3
Center Point	8 x 8mm	1 pcs	1 pcs	660-12-4
Parallel Jaw	8 x 19 x 100mm	-	1 pair	660-12-7
Base Block		1 pcs	1 pcs	660-05-0
Bevel Jaw	60mm	-	1 pair	660-06-2
Straight Edge	100mm	-	1 pcs	660-06-4



Inch			27 pcs Set Code No.	14 pcs Set Code No.		
#	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 pcs	-	660-05-5
B	Scriber Point	1.950" Length	Flatness: ± 0.0002 " / 2"	1 pcs	-	660-13-1
C	Center Point	2.05" Length	Concentricity: ± 0.004 "	1 pcs	-	660-13-4
D	Points	2.05" Length	Concentricity: ± 0.002 "	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 pcs	660-15-1
		4.000" Capacity, 6.5" Length	accurately ground	1 pcs	-	660-15-2
		6.000" Capacity, 8.5" Length	and lapped	1 pcs	1 pcs	660-15-3
		10.000" Capacity, 12" Length		1 pcs	-	660-15-4



Check Masters 660 / 661 Series

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



661-12-0

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

Plug Gauges and Ring Gauges

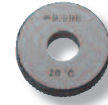
670 / 675 Series

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



670-10-7



675-10-0

SPECIFICATIONS

Plug Gauges

Size	H7 Code No.	H6 Code No.	H8 Code No.	H9 Code No.
2mm	670-02-7	670-02-6	670-02-8	670-02-9
3mm	670-03-7	670-03-6	670-03-8	670-03-9
4mm	670-04-7	670-04-6	670-04-8	670-04-9
5mm	670-05-7	670-05-6	670-05-8	670-05-9
6mm	670-06-7	670-06-6	670-06-8	670-06-9
7mm	670-07-7	670-07-6	670-07-8	670-07-9
8mm	670-08-7	670-08-6	670-08-8	670-08-9
9mm	670-09-7	670-09-6	670-09-8	670-09-9
10mm	670-10-7	670-10-6	670-10-8	670-10-9
11mm	670-11-7	670-11-6	670-11-8	670-11-9
12mm	670-12-7	670-12-6	670-12-8	670-12-9
13mm	670-13-7	670-13-6	670-13-8	670-13-9
14mm	670-14-7	670-14-6	670-14-8	670-14-9
15mm	670-15-7	670-15-6	670-15-8	670-15-9
16mm	670-16-7	670-16-6	670-16-8	670-16-9
17mm	670-17-7	670-17-6	670-17-8	670-17-9
18mm	670-18-7	670-18-6	670-18-8	670-18-9
19mm	670-19-7	670-19-6	670-19-8	670-19-9
20mm	670-20-7	670-20-6	670-20-8	670-20-9
21mm	670-21-7	670-21-6	670-21-8	670-21-9
22mm	670-22-7	670-22-6	670-22-8	670-22-9
23mm	670-23-7	670-23-6	670-23-8	670-23-9
24mm	670-24-7	670-24-6	670-24-8	670-24-9
25mm	670-25-7	670-25-6	670-25-8	670-25-9
26mm	670-26-7	670-26-6	670-26-8	670-26-9
27mm	670-27-7	670-27-6	670-27-8	670-27-9
28mm	670-28-7	670-28-6	670-28-8	670-28-9
30mm	670-30-7	670-30-6	670-30-8	670-30-9
32mm	670-32-7	670-32-6	670-32-8	670-32-9

Size	H7 Code No.	H6 Code No.	H8 Code No.	H9 Code No.
34mm	670-34-7	670-34-6	670-34-8	670-34-9
35mm	670-35-7	670-35-6	670-35-8	670-35-9
36mm	670-36-7	670-36-6	670-36-8	670-36-9
37mm	670-37-7	670-37-6	670-37-8	670-37-9
38mm	670-38-7	670-38-6	670-38-8	670-38-9
40mm	670-40-7	670-40-6	670-40-8	670-40-9
42mm	670-42-7	670-42-6	670-42-8	670-42-9
44mm	670-44-7	670-44-6	670-44-8	670-44-9
45mm	670-45-7	670-45-6	670-45-8	670-45-9
46mm	670-46-7	670-46-6	670-46-8	670-46-9
47mm	670-47-7	670-47-6	670-47-8	670-47-9
48mm	670-48-7	670-48-6	670-48-8	670-48-9
50mm	670-50-7	670-50-6	670-50-8	670-50-9
52mm	670-52-7	670-52-6	670-52-8	670-52-9
55mm	670-55-7	670-55-6	670-55-8	670-55-9
60mm	670-60-7	670-60-6	670-60-8	670-60-9
62mm	670-62-7	670-62-6	670-62-8	670-62-9
65mm	670-65-7	670-65-6	670-65-8	670-65-9
68mm	670-68-7	670-68-6	670-68-8	670-68-9
70mm	670-70-7	670-70-6	670-70-8	670-70-9
72mm	670-72-7	670-72-6	670-72-8	670-72-9
75mm	670-75-7	670-75-6	670-75-8	670-75-9
80mm	670-80-7	670-80-6	670-80-8	670-80-9
85mm	670-85-7	670-85-6	670-85-8	670-85-9
90mm	670-90-7	670-90-6	670-90-8	670-90-9
95mm	670-95-7	670-95-6	670-95-8	670-95-9
98mm	670-98-7	670-98-6	670-98-8	670-98-9
100mm	671-00-7	671-00-6	671-00-8	671-00-9

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

Size	Code No.
11mm	675-11-0
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

Size	Code No.
25mm	675-25-0
26mm	675-26-0
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

Size	Code No.
44mm	675-44-0
45mm	675-45-0
46mm	675-46-0
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

Size	Code No.
72mm	675-72-0
75mm	675-75-0
80mm	675-80-0
82mm	675-82-0
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

Thread Plug Gauges and Ring Gauges

68X Series

FEATURES

- ISO-Metric Thread
- Per DIN 13



682-14-5



685-14-5



686-14-5

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	683-02-1	684-02-0
M2.5	680-02-5	683-02-6	684-02-5
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 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	690-01-3	690-01-4
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 Gauges

690 Series

- NPT ANSI/ASME B.1.20.1*

	Plug Gauge	Ring Gauge
Size	Code No.	Code No.
1/16"-27	690-40-1	690-40-3
1/8"-27	690-41-1	690-41-3
1/4"-27	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

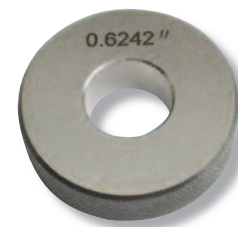
	Plug Gauge	Ring Gauge
Size	Code No.	Code No.
1"-11.5	690-46-1	690-46-3
1-1/4"-11.5	690-47-1	690-47-3
1-1/2"-11.5	690-48-1	690-48-3
2"-11.5	690-49-1	690-49-3
2-1/2"-8	690-50-1	690-50-3
3"-8	690-51-1	690-51-3

Inch Master Setting Ring Gauges

679 Series

FEATURES

- Hardened steel



Size	Accuracy	Taper/Ovality	Code No.
0.100"	±0.00004"	0.000012"	679-01-0
0.160"	±0.00005"	0.000015"	679-02-0
0.175"	±0.00005"	0.000015"	679-03-0
0.225"	±0.00005"	0.000015"	679-04-0
0.240"	±0.00005"	0.000015"	679-05-0
0.350"	±0.00005"	0.000015"	679-06-0
0.500"	±0.00006"	0.000019"	679-07-0
0.650"	±0.00006"	0.000019"	679-08-0
1.000"	±0.00008"	0.000024"	679-09-0

Size	Accuracy	Taper/Ovality	Code No.
1.400"	±0.00008"	0.000028"	679-10-0
1.800"	±0.00008"	0.000028"	679-11-0
2.000"	±0.00010"	0.000031"	679-12-0
2.800"	±0.00010"	0.000031"	679-13-0
3.600"	±0.00012"	0.000039"	679-14-0
5.000"	±0.00016"	0.000047"	679-15-0
7.000"	±0.00016"	0.000047"	679-16-0
9.000"	±0.00019"	0.000055"	679-17-0
11.000"	±0.00023"	0.000062"	679-18-0

ANSI Inch Thread Plug Gauges and Ring Gauges

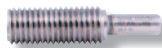
695 Series

FEATURES

- Gold aluminum handles
- ANSI Standard



695-41-1



695-41-0



695-41-2



695-32-5

SPECIFICATIONS

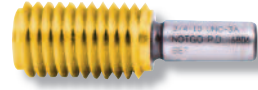
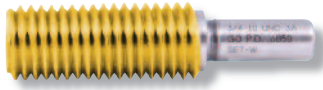
Size	Plug Gauge "GO" (Class 2B) Code No.	Plug Gauge "NO GO" (Class 2B) Code No.	Plug Gauge Double End (Class 2B) Code No.	Ring Gauge "GO" (Class 2A) Code No.	Ring Gauge "NO GO" (Class 2A) Code No.
0 - 80	695-01-0	695-01-1	695-01-2	695-01-4	695-01-5
1 - 64	695-02-0	695-02-1	695-02-2	695-02-4	695-02-5
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

TiN-Coated ANSI Inch Thread Plug Gauges

695 Series

FEATURES

- GO and NO GO are Tin-coated
- ANSI Standard



SPECIFICATIONS

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

ANSI Metric Thread Plug Gauges and Ring Gauges

696 Series

FEATURES

- Gold aluminum handles
- ANSI Standard

SPECIFICATIONS

Size	Plug Gauge "GO" (6H) Code No.	Plug Gauge "NO GO" (6H) Code No.	Plug Gauge Double End (6H) Code No.	Ring Gauge "GO" (6g) Code No.	Ring Gauge "NO GO" (6g) Code No.
M1.6 X 0.35	696-01-0	696-01-1	696-01-2	696-01-4	696-01-5
M1.8 X 0.35	696-02-0	696-02-1	696-02-2	696-02-4	696-02-5
M2 X 0.4	696-03-0	696-03-1	696-03-2	696-03-4	696-03-5
M2.2 X 0.45	696-04-0	696-04-1	696-04-2	696-04-4	696-04-5
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

TiN-Coated ANSI Metric Thread Plug Gauges

696 Series

FEATURES

- GO and NO GO are Tin-coated
- ANSI Standard

SPECIFICATIONS

	Plug Gauge "GO" (6H)	Plug Gauge "NO GO" (6H)	Plug Gauge Double End (6H)
Size	Code No.	Code No.	Code No.
M1.6 X 0.35	696-01-7	696-01-8	696-01-9
M1.8 X 0.35	696-02-7	696-02-8	696-02-9
M2 X 0.4	696-03-7	696-03-8	696-03-9
M2.2 X 0.45	696-04-7	696-04-8	696-04-9
M2.5 X 0.45	696-05-7	696-05-8	696-05-9
M3 X 0.5	696-06-7	696-06-8	696-06-9
M3.5 X 0.6	696-07-7	696-07-8	696-07-9
M4 X 0.7	696-08-7	696-08-8	696-08-9
M4.5 X 0.75	696-09-7	696-09-8	696-09-9
M5 X 0.8	696-10-7	696-10-8	696-10-9
M6 X 1	696-11-7	696-11-8	696-11-9
M7 X 1	696-12-7	696-12-8	696-12-9
M8 X 1	696-13-7	696-13-8	696-13-9
M8 X 1.25	696-14-7	696-14-8	696-14-9
M10 X 1.25	696-15-7	696-15-8	696-15-9
M10 X 1.5	696-16-7	696-16-8	696-16-9
M12 X 1.25	696-17-7	696-17-8	696-17-9
M12 X 1.75	696-18-7	696-18-8	696-18-9
M14 X 1.5	696-19-7	696-19-8	696-19-9
M14 X 2	696-20-7	696-20-8	696-20-9
M16 X 1.5	696-21-7	696-21-8	696-21-9
M16 X 2	696-22-7	696-22-8	696-22-9
M18 X 1.5	696-23-7	696-23-8	696-23-9
M18 X 2.5	696-24-7	696-24-8	696-24-9
M20 X 1.5	696-25-7	696-25-8	696-25-9
M20 X 2.5	696-26-7	696-26-8	696-26-9
M22 X 1.5	696-27-7	696-27-8	696-27-9
M24 X 2	696-28-7	696-28-8	696-28-9
M24 X 3	696-29-7	696-29-8	696-29-9
M27 X 2	696-30-7	696-30-8	696-30-9
M27 X 3	696-31-7	696-31-8	696-31-9
M30 X 2	696-32-7	696-32-8	696-32-9
M30 X 3.5	696-33-7	696-33-8	696-33-9
M33 X 2	696-34-7	696-34-8	696-34-9
M33 X 3.5	696-35-7	696-35-8	696-35-9
M36 X 3	696-36-7	696-36-8	696-36-9
M36 X 4	696-37-7	696-37-8	696-37-9
M39 X 3	696-38-7	696-38-8	696-38-9
M39 X 4	696-39-7	696-39-8	696-39-9

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 0.0001"/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 - Inches	32 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 Pc. 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: 0.750".
- 1/4"-28 threaded hole through center of block.
- Working surfaces hardened to HRC 58-60.
- Working surfaces precision ground and lapped to ± 0.000050 ".
- 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

Thread Measuring Wire Set

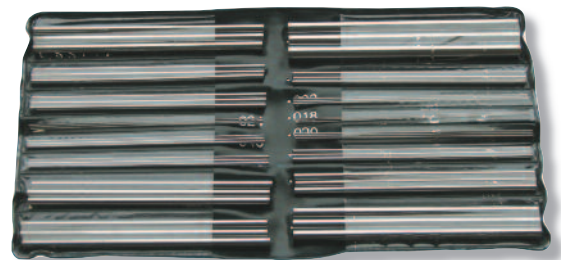
697 Series

FEATURES

- 48 wires — 16 different sizes.
- Measures all threads from 3 - 48 threads per inch.
- Measures all metric threads from 0.5 mm to 6 mm.
- Also measures ACME threads.
- Laminated chart included.

SPECIFICATIONS

Code No.
697-30-0



Individual Pin Gauges

FEATURES

- Black oxide coating prevents corrosion and shows gauge wear.

SPECIFICATIONS

Size	Tolerance	Bright Finish	Black Oxide Finish
		Code No.	Code No.
0.011" - 1.000" x 0.001 step	+0/-0.0002 Minus	21-0011 to 21-1000	23-0011 to 23-1000
0.011" - 1.000" x 0.001 step	+0.0002/-0 Plus	22-0011 to 22-1000	24-0011 to 24-1000



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.
- Each set includes pin gauge holder.
- Furnished in attractive molded plastic case.
- Class ZZ guaranteed to 0.0002"/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 0.060"/1.5 mm.
- Hardened drill rod RC 60-62, 2 inches long.
- 10 micron finish or better.
- Black oxide coating prevents corrosion and shows gauge wear.
- Certificate of Accuracy included.

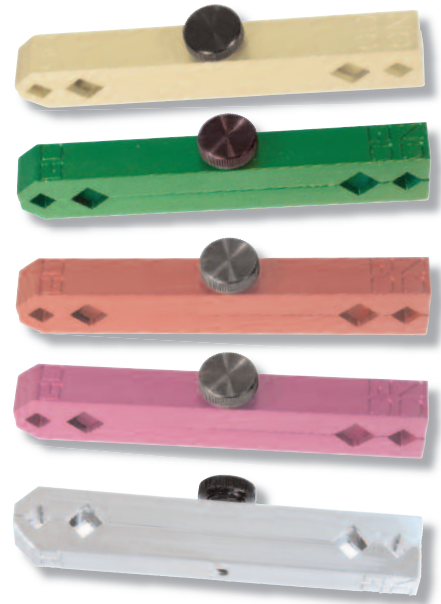
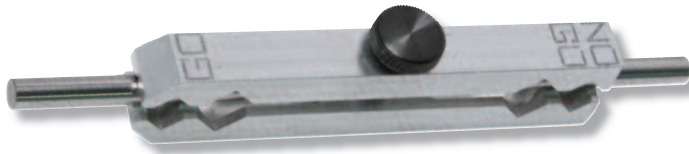


SPECIFICATIONS

Qty	Range	Surface	Accuracy: +0.0002" -0"	Accuracy: -0.0002" +0"
			Code No.	Code No.
Inch Sets				
50	0.011" - 0.060" x 0.001 step	Bright Finish	697-01-0	697-01-2
190	0.061" - 0.250" x 0.001 step	Bright Finish	697-02-0	697-02-2
250	0.251" - 0.500" x 0.001 step	Bright Finish	697-03-0	697-03-2
125	0.501" - 0.625" x 0.001 step	Bright Finish	697-04-0	697-04-2
125	0.626" - 0.750" x 0.001 step	Bright Finish	697-05-0	697-05-2
82	0.751" - 0.832" x 0.001 step	Bright Finish	697-06-0	697-06-2
84	0.833" - 0.916" x 0.001 step	Bright Finish	697-07-0	697-07-2
84	0.917" - 1.000" x 0.001 step	Bright Finish	697-08-0	697-08-2
50	0.011" - 0.060" x 0.001 step	Black Oxide Finish	697-09-0	697-09-2
190	0.061" - 0.250" x 0.001 step	Black Oxide Finish	697-10-0	697-10-2
250	0.251" - 0.500" x 0.001 step	Black Oxide Finish	697-11-0	697-11-2
125	0.501" - 0.625" x 0.001 step	Black Oxide Finish	697-12-0	697-12-2
125	0.626" - 0.750" x 0.001 step	Black Oxide Finish	697-13-0	697-13-2
82	0.751" - 0.832" x 0.001 step	Black Oxide Finish	697-14-0	697-14-2
84	0.833" - 0.916" x 0.001 step	Black Oxide Finish	697-15-0	697-15-2
84	0.917" - 1.000" x 0.001 step	Black Oxide Finish	697-16-0	697-16-2
Metric Sets			Accuracy: +0.005mm -0	Accuracy: -0.005mm +0
55	0.2 - 1.28mm x 0.02mm step	Bright Finish	697-20-0	697-20-2
185	1.30 - 4.98mm x 0.02mm step	Bright Finish	697-21-0	697-21-2
250	5.00 - 9.98mm x 0.02mm step	Bright Finish	697-22-0	697-22-2
200	10.00 - 13.98mm x 0.02mm step	Bright Finish	697-23-0	697-23-2
125	14.00 - 16.48mm x 0.02mm step	Bright Finish	697-24-0	697-24-2
125	16.50 - 18.98mm x 0.02mm step	Bright Finish	697-25-0	697-25-2
100	19.00 - 20.98mm x 0.02mm step	Bright Finish	697-26-0	697-26-2
75	21.00 - 22.48mm x 0.02mm step	Bright Finish	697-27-0	697-27-2
75	22.50 - 23.98mm x 0.02mm step	Bright Finish	697-28-0	697-28-2
75	24.00 - 25.48mm x 0.02mm step	Bright Finish	697-29-0	697-29-2

Pin Gauge Handles

697 Series



FEATURES

- Machined from solid aluminum, this premium handle can hold diameters from 1/32" to 1/2".
- Go and No Go marked on gauge.
- Completely self contained, does not use any bushings.
- Available in plain Aluminum, or Green, Purple, Red, or Yellow Anodized Aluminum

SPECIFICATIONS

Pin Gauge Handles	Code No.
Aluminum	697-40-0
Green Anodized Aluminum	697-40-1
Purple Anodized Aluminum	697-40-2
Red Anodized Aluminum	697-40-3
Yellow Anodized Aluminum	697-40-4

Pin Gauge Handles

697 Series



FEATURES

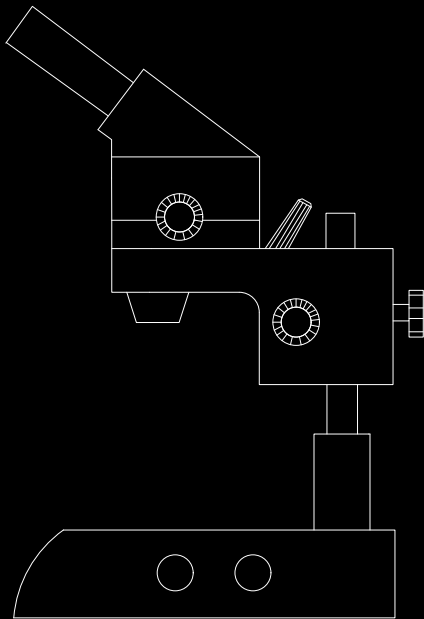
- Comfortable, ergonomically designed handle for pin gauge.
- Can be used with GO pin (green) on one end, NO GO pin (red) on opposite end.

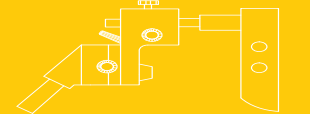
SPECIFICATIONS

Gage 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" - 0.916"	697-41-6
0.917" - 1.000"	697-41-7

Testers & Optical Instrument

183	Surface Roughness Standards
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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; 0.1µm (2; 4µ")
4 pcs	Reaming	0.2; 0.4; 0.8; 1.6µm (8; 16; 32; 63µ")
6 pcs	Grinding	0.05; 0.1; 0.2; 0.4; 0.8; 1.6µm (2; 4; 8; 16; 32; 63µ")
6 pcs	Horizontal Milling	0.4; 0.8; 1.6; 3.2; 6.3; 12.5µm (16; 32; 63; 125; 250; 500µ")
6 pcs	Vertical Milling	0.4; 0.8; 1.6; 3.2; 6.3; 12.5µm (16; 32; 63; 125; 250; 500µ")
6 pcs	Turning	0.4; 0.8; 1.6; 3.2; 6.3; 12.5µm (16; 32; 63; 125; 250; 500µ")



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.

SPECIFICATIONS

Range	Resolution	Probes	Remark	Code No.
0-1250 µm	0.1 µm	N1	For measuring thickness of non-conductive 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
0-1250 µm	0.1 µm	F400	For measuring thickness of non-magnetic coating on magnetic metal substrate	506-10-2
0-10000 µm	0.1 µm	F10	For measuring thickness of non-magnetic coating on magnetic metal substrate	506-10-3

STANDARD ACCESSORIES

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





Rockwell Type Hardness Testers

640 Series

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



640-01-0



640-02-0

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

Shore Scale A Durometer

640 Series

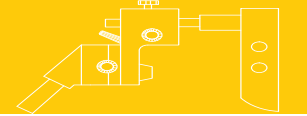
FEATURES

- 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





Brinell Hardness Testers

640 Series

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 pcs each |
| 2, V-notch anvil | 1 pcs |
| 3, Small flat anvil | 1 pcs |
| 4, Large flat anvil | 1 pcs |
| 5, Brinell standardized block | 2 pcs |
| 6, 20X readout microscope | 1 pcs |
| 7, Instruction manual | 1 pcs |



640-10-1



640-10-5

SPECIFICATIONS

Code No.	640-10-1	640-10-5
	Mechanical models	Digital models
Range	8-650HBW	4-650HBW
Test Force	1838.8, 2451.8, 7355.3, 9807, 29421N (187.5, 250, 750, 1000, 3000kgf)	612.9, 980.7, 1225.9, 1838.8, 2451.8, 4903.5, 7355.3, 9807, 14710.5, 29421N (62.5, 100, 125, 187.5, 250, 500, 750, 1000, 1500, 1500, 3000kgf)
Max. height of test piece	230mm	240mm
Depth of throat	120mm	150mm
Power Supply	380V AC or 220V AC. 50 or 60 Hz	220V AC or 110V AC. 50 or 60 Hz
Dimension	700 x 268 x 842mm	630 x 250 x 1000mm
Weight	Approx. 210kg	Approx. 210kg



Impact Hardness Testers

640 Series

FEATURES

- Large screen (128x64 dot matrix LCD), allows for clear display of all functions and parameters
- Hardness test can be taken at any angle including inverted.
- A wide measuring range supports the hardness of all metallic materials. Hardness results are directly displayed in HRB, HRC, HV, HB, HS, HL hardness scales.
- Six impact devices are available for special application with automatic impact device recognition.
- Diameter of carbide ball: 3mm.
- Large capacity memory storage of 500 sub groups. Stored information including single measured value, mean value, test data, impact direction, impact times, material and hardness scale are available.
- Five languages are supported with 640-17-X series: English, French, German, Italian and Spanish; 640-16-X series are Chinese display.
- 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.



SPECIFICATIONS

Range	Accuracy	Application Range	Impact devices	Impact Capacity	Code No.	
					Chinese	ENG/FRA/GER/ITA/SPA
(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	640-16-1	640-17-1
		Test hole or hollow cylindrical	DC	11 Nmm	640-16-2	640-17-2
		Test small ,light,thin parts and surface of hardened layer	C	2.7 Nmm	640-16-3	640-17-3
		Test groove or re-entrant surface	D+15	11 Nmm	640-16-4	640-17-4
		Test slender narrow groove or hole	DL	11 Nmm	640-16-5	640-17-5
		Test large,thick,heavy and rough surface steel	G	90 Nmm	640-16-6	640-17-6

STANDARD ACCESSORIES

- Impact device 1 pcs
- Hardness test block 1 pcs
- Small support ring 1 pcs
- Cleaning brush 1 pcs
- Battery Charger 1 pcs
- Paper for printing 1 pcs
- Manual 1 pcs
- DataPro software 1 pcs
- Communication cable 1 pcs

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	∅90 X 55mm	2.7kg	640-82-0



Hardness Tester Penetrators

640 Series

SPECIFICATIONS

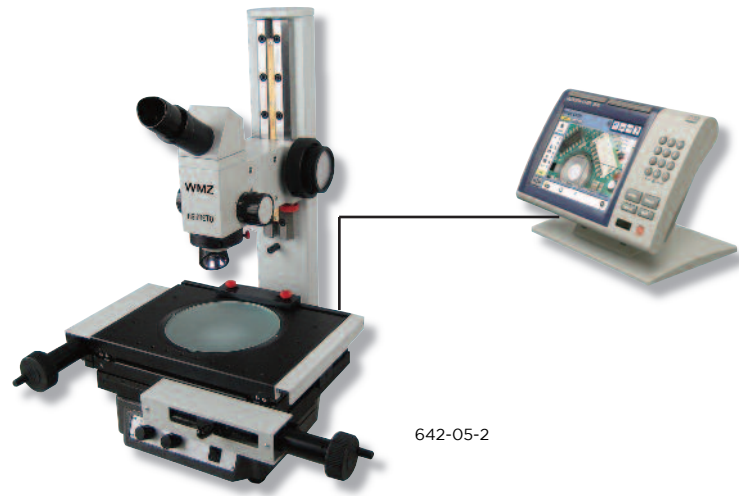
Description	Specification	Code No.
Penetrator for Rockwell Hardness Tester	120° Diamond cone penetrator ∅1.588mm (1/16") steel ball penetrator	640-83-0
Penetrator for Brinell Hardness Tester	∅2.5, 5, 10mm Tungsten carbide ball penetrator	640-84-0





Workshop Measuring Microscopes

642 Series



FEATURES

- High quality optics for light intensive and sharp three dimensional images
- Focusing with an ergonomic hand wheel, can be mounted either side, ideal for either a left or right handed operator
- Zoom lens with continuous variable magnification and/or fixed lens
- Prism head can be tilted to 45° with dipodic adjustment
- LED ring light, dimmable
- LED back light, dimmable
- Robust cast stand
- Stable XY table precision mounted

Characteristics of the QC 200:

- Resolution 0.001mm / 0.0001"
- Calculation of geometric elements
- Point, line, radius, circle, angle
- Learning program
- Graphical display of measuring result
- LCD display diagonal 150mm
- Switch over mm / inch
- Reset to zero, correction of linear fault
- Interface RS 232 C
- Printer output parallel and serial

SPECIFICATIONS

Code No.	642-05-0	642-05-2
Measuring range X/Y	50 / 50 mm	200 / 150 mm
Measuring table dimensions	150 x 150 mm	150 x 150 mm
Max. table load	15 kg	15 kg
Measuring system	Micrometer Head	QC200
- Readings	0.001 mm	0.001 mm
- Error limit	8 µm	8 µm
- Repeatability	2 µm	2 µm
Magnification Variable zoom	8 - 40X	8 - 40X
Field of view	23 - 4 mm	23 - 4 mm
Working distance	70 mm	70 mm
Max. height of test piece	150 mm	150 mm
Illumination	LED Incident and transmitted light, individually adjustable	LED Incident and transmitted light, individually adjustable
Interfaces	USB / Opto RS232	Interface RS 232 C
Dimensions H x B x T	535 x 410 x 470 mm	535 x 410 x 470 mm



Workshop Measuring Microscope QZW1

642 Series

FEATURES

- QZW1 CCD color camera
- Zoom lens, magnification 0.7X - 4.5X
- MPE1 = 3 + (L/100) μm

Measuring table

- Measuring range 200 mm x 100 mm
- Max. height of test piece 150 mm
- Quick and fine adjustment
- Max. table load 20 kg

Illumination

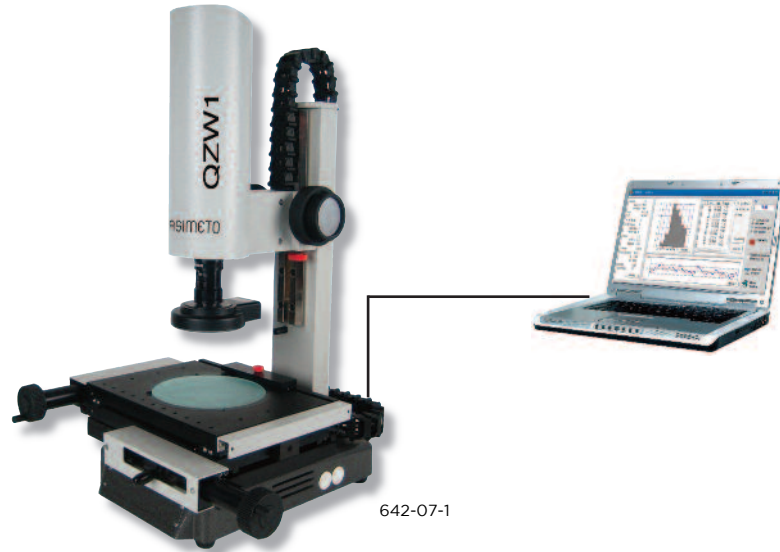
- LED back light, dimmable
- LED ring light, segments each can be individually switched on/off or dimmed
- Laser pointer for positioning assistance

Further measuring ranges

- 100 mm x 100 mm
- 250 mm x 170 mm
- 400 mm x 250 mm

Options

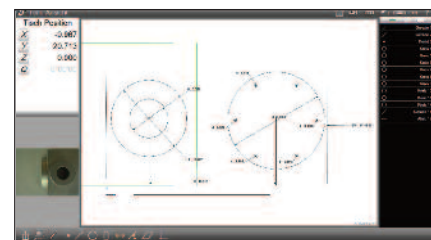
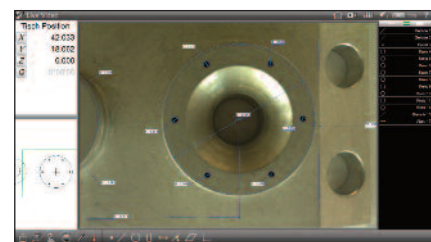
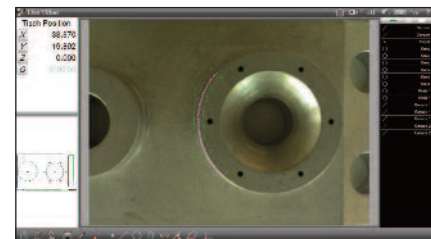
- Z-Axis can be extended up to 200 mm
- Measuring system for Z-Axis
- Telemetric LED back light illumination



642-07-1

Characteristics of the M3 software

- Designed for Multi-Touch software control.
- Advanced video probe toolbox.
- programmable light control.
- Advanced Edge Teach.
- Graphics-based "Part View" constructions
- Quick Annotate and Markup.
- Geometric tolerancing.
- Feature Detail Graphics.
- DXF Overlay and FOV capability.
- Part programs and playback
- Flexible Report Content and Formatting
- Industry leading Operating System platform (All-IN-One Touch PC WIN7)



SPECIFICATIONS

Code No.	642-07-1
Measuring table dimensions	200 x 100 mm
Measuring system	M3 software



Vertical Profile Projectors

641 Series

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



641-01-0

SPECIFICATIONS

Code No.		641-01-0 / 641-01-1			641-02-0 / 641-02-1		
Imaging direction		Direct / Indirect Image			Direct / Indirect 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)		
Projector Screen	Resolution (X/Y-axis)	0.001 mm (1µm) or 0.0005 mm (0.5µm)			0.001 mm (1Qm) or 0.0005 mm (0.5µm)		
	Dimension	12" (Ø312 mm), usable range > Ø300 mm			12" (Ø312 mm), usable range > Ø300 mm		
	Rotary Range	0°-360°			0°-360°		
Objective Lens	Angle Resolution	1' or 0.01°			1' or 0.01°		
	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		

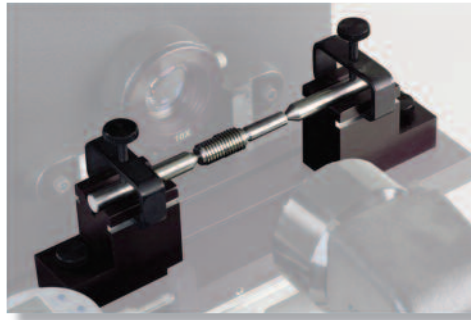
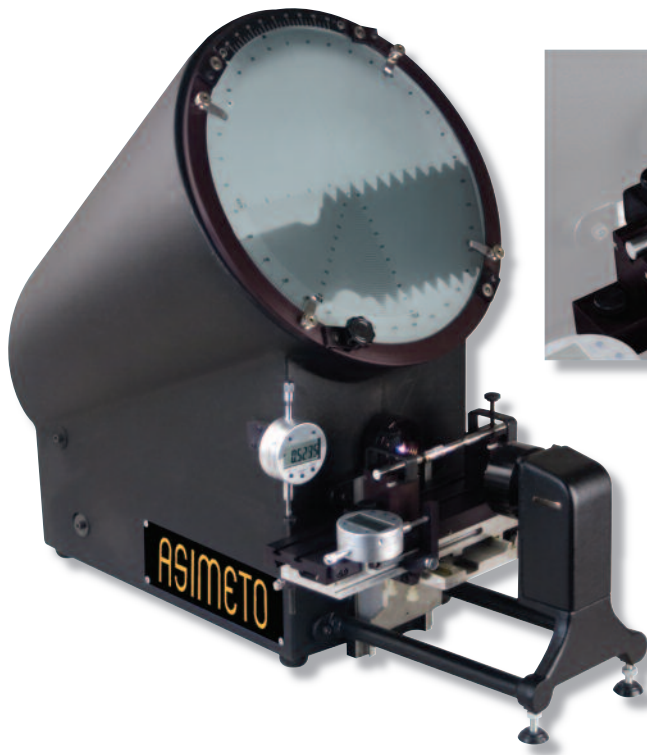


12" Optical Comparators

641 Series

FEATURES

- With 2 dial Gauges (1" for vertical and 2" table travel)
- Large 12" x 3" t-slot stage with 6" horizontal and 2-1/2" vertical travel
- 12" Diameter protractor screen
- Rotatable screen with fine adjustment
- Vernier resolution of 5 minutes
- Overlay clips
- Selectable high and low intensity profile illumination switch
- Digital indicator and V-Blocks are not included



641-09-9

SPECIFICATIONS

Model	Description	Code No.
Type I	Lens 10X	641-09-0
Type II	Lens 10X, 20X and 40X	641-09-2
Option Part:		
V-Blocks	1 pair	641-09-9



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	642-03-0
Graduation	0.01mm	0.025mm
Magnification	100X	40X
Field of View	1.6mm	4.2mm
Working Distance	7mm	18mm
Eyepiece	WF10X, Graduation: 0.025 mm	WF10X, Graduation: 0.025 mm
Objective	10X	4X
Illumination System	Pen Illumination	Pen Illumination
Spare Part	Description	Code No.
Objective	4X	642-10-0

Microscope MS-2



642-01-1

FEATURES

- Sharp stereo erect image over a wide field of view
- Rotatable objective, 45° inclined and 360° rotatable

STANDARD ACCESSORIES

- Eyepiece, Glass stage, Instruction manual

Code No.	642-01-1	642-03-1
Magnification	20X	32X
Field of View	8.5mm	5.0mm
Working Distance	80mm	50mm
Eyepiece	WF10X / 20mm	WF16X / 20mm
Objective	2X	2X
Illumination System	N/A	N/A
Spare Part	Description	Code No.
Eyepiece	WF16X	642-10-1
Eyepiece	WF10X, Graduation: 0.025 mm	642-10-2

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 ±5dp, 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	642-03-2
Magnification	20X / 40X	40X / 80X
Field of View	10mm / 5mm	6.5mm / 3.2mm
Working Distance	76mm	76mm
Eyepiece	WF10X	WF20X
Objective	2X / 4X	2X / 4X
Illumination System	12V/10W double-lighting	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 $\pm 5dp$, 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	642-03-3
Magnification	20X / 40X	40X / 80X
Field of View	10mm / 5mm	6.5mm / 3.2mm
Working Distance	76mm	76mm
Eyepiece	WF10X / 20mm	WF20X
Objective	2X / 4X	2X / 4X
Illumination System	12V/10W Halogen and Incandescent	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	230mm
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
Eyepiece	WF10X , Graduation: 0.05 mm	642-10-5



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	99mm / 81mm	
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
Eyepiece	WF10X (1 pc), Graduation: 0.05 mm	642-10-5

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	642-03-6
Magnification	10X-40X	20X-80X
Field of View	23mm - 5.5mm	11.5mm - 3mm
Working Distance	91mm	28mm
Eyepiece	SWF10X	SWF10X
Objective	1X-4X	1X-4X Auxiliary objective 2X
Illumination System	12V/10W Adjustable double-lighting	12V/10W Adjustable double-lighting
Spare Part	Description	Code No.
Eyepiece	WF15X / 15mm	642-10-3
Eyepiece	WF20X / 10mm	642-10-4
Eyepiece	WF10X, Graduation: 0.05 mm	642-10-5
Auxiliary objective	2X	642-11-3



Stereo-Zoom Microscope SZM 1/2



642-02-1
SZM 1



642-02-2
SZM 2

FEATURES

- Sharp stereo erect image over a wide field of view
- 45° inclined and 360° rotational binocular head
- Pillar style
- SZM 2 models come with the interface connecting with CCD or digital camera

STANDARD ACCESSORIES

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

Code No.	642-02-1 / 642-02-2	642-04-1 / 642-04-2
Models	SZM 1 / SZM 2	SZM 1 / SZM 2
Magnification	7X-45X	28X-180X
Field of View	30mm-4mm	7.5mm-1mm
Working Distance	86mm	25.5mm
Eyepiece	WF10X / 20mm	WF20X / 20mm
Objective	0.7X-4.5X	0.7X-4.5X Auxiliary objective 2X
Illumination System	12V/10W Adjustable double-lighting	12V/10W Adjustable double-lighting

Stereo-Zoom Microscope SZM 3/4



642-02-3
SZM 3



642-02-9
SZM 4

FEATURES

- Sharp stereo erect image over a wide field of view
- Binocular Tube: 360° rotating and 45° inclined and dioptic compensation.
- With adjustable arm, which provides a wider field of view higher; could provide a larger working distance
- Packaging: Foam box plus carton box
- SZM 4 models come with the interface connecting with CCD or digital camera

STANDARD ACCESSORIES

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

Code No.	642-02-3 / 642-02-9	642-03-3 / 642-03-9
Models	SZM 3 / SZM 4	SZM 3 / SZM 4
Magnification	7X-45X	28X-180X
Field of View	30mm-4mm	7.5mm-1mm
Working Distance	86mm	25.5mm
Eyepiece	WF10X / 20mm	WF10X / 20mm
Objective	0.7X-4.5X	0.7X-4.5X Auxiliary objective 2X
Illumination System	N/A	N/A



Accessories for SZM1, SZM2, SZM3, SZM4



642-11-5

Spare Part	Description	Code No.
Eyeiece	WF15X / 15 mm	642-10-7
Eyeiece	WF20X / 10 mm	642-10-8
Eyeiece	WF10X, Graduation: 10 mm / 0.1mm	642-10-9
Adoption Lens	0.5X	642-11-0
Adoption Lens	2.0X	642-11-1
CCD - Camera	1.3 million pixels	642-11-5
Adapter (c-mount)	1 X	642-12-2
Adapter (c-mount)	1/2 X	642-12-0
Auxiliary objective	2X	642-11-2

LED Ring Lights

FEATURES

- For illumination of workpieces
- Model #642-20-2 is solid one piece design. with control box inside . LED lights can be divided into 4 segments
- Model #642-20-1 comes with a separate control box, LED light is adjustable



Back

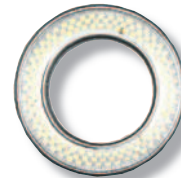


Front

642-20-2



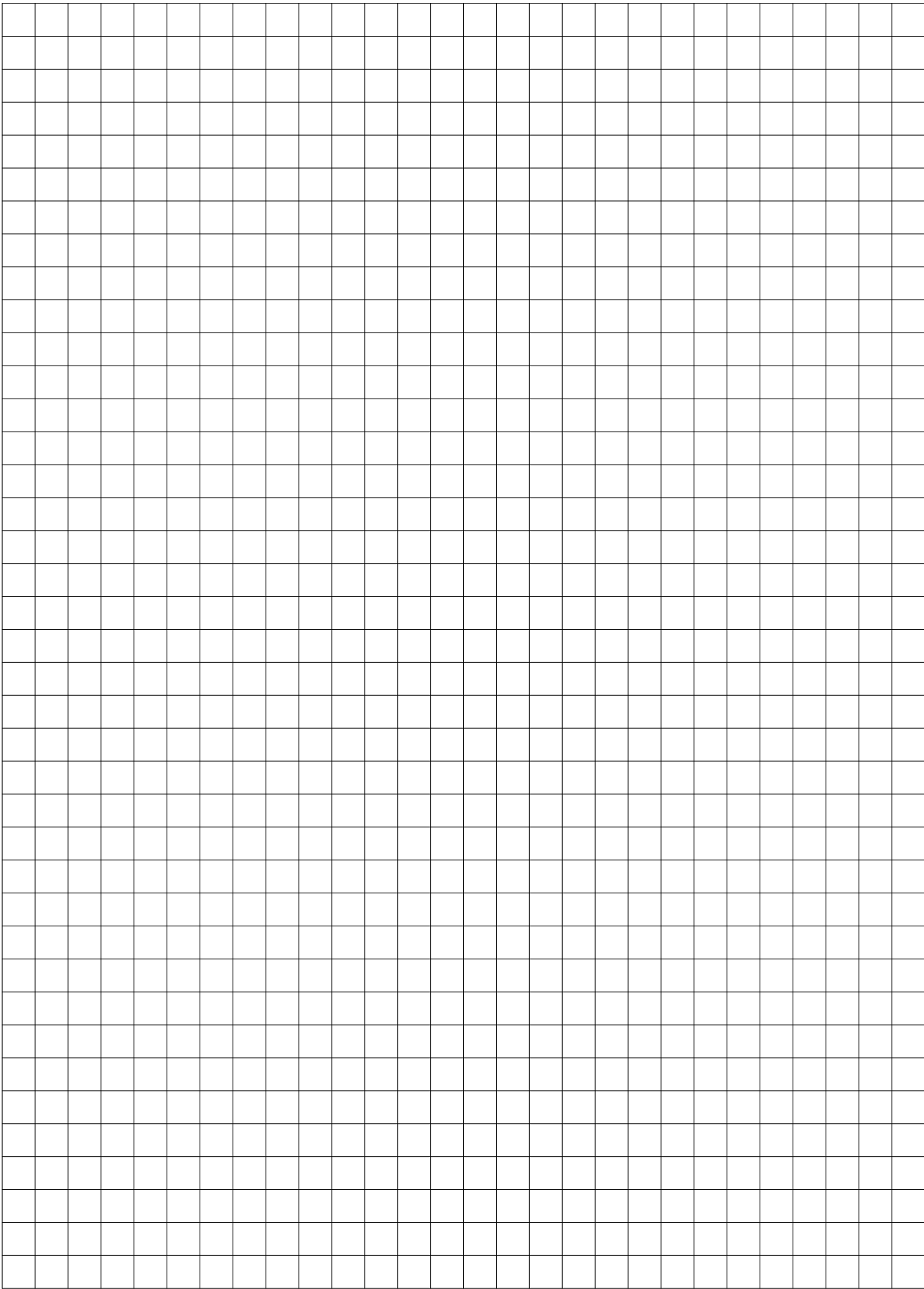
Control box



Front

642-20-1

Dimension	Segments	Code No.
Ø60mm	1	642-20-1
Ø60mm	4	642-20-2





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