



Compact Catalog  
2019

**ASIMETO**  
Empowering Possibilities

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# Precision

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

## **ASIMETO - Empowering Possibilities.**

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

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



## IP65 Digital Outside Micrometers

105 Series



105-01-4

### FEATURES

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

### SPECIFICATIONS

Inch		Metric		With Data Output		
Range	Accuracy	Range	Accuracy	Thimble	Inch Code No.	Metric Code No.
0-1"	± .0001"	0-25mm	± 0.004mm	dual ratchets	105-01-5	105-01-4
1-2"	± .0002"	25-50mm	± 0.004mm	dual ratchets	105-02-5	105-02-4
2-3"	± .0002"	50-75mm	± 0.005mm	dual ratchets	105-03-5	105-03-4
3-4"	± .0002"	75-100mm	± 0.005mm	dual ratchets	105-04-5	105-04-4
4-5"	± .0002"	100-125mm	± 0.006mm	dual ratchets	105-05-5	105-05-4
5-6"	± .0002"	125-150mm	± 0.006mm	dual ratchets	105-06-5	105-06-4
<b>Sets</b>						
Range	Quantity	Range	Quantity	Thimble		
0-3"	3	-	-	dual ratchets	105-63-9	-

## Digital Outside Micrometers

116 Series



116-01-0

### FEATURES

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

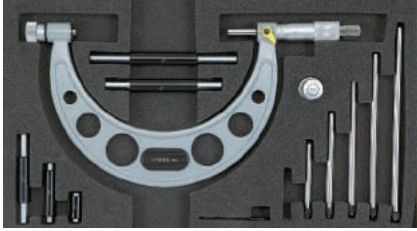
### SPECIFICATIONS

Inch		Metric		Inch	Metric
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-1"	± .0001"	0-25mm	± 0.004mm	116-01-1	116-01-0
1-2"	± .0002"	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



## Interchangeable Anvil Outside Micrometers

111 / 115 Series



111-06-1

### FEATURES

- Resolution:  
Digital reading: .00005" / 0.001mm  
Scale on digital models: .0001" / 0.01mm  
Scale on mechanical models: .001" / 0.01mm
- 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		Anvils	Standards	Digital models		Mechanical models	
Range	Accuracy	Range	Accuracy			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
12-16"	± .0004"	300-400mm	± 0.011mm	4 pcs	2 pcs	115-16-1	115-16-0	111-16-1	111-16-0
-	-	400-500mm	± 0.013mm	4 pcs	2 pcs	-	115-20-0	-	111-20-0
20-24"	± .0006"	500-600mm	± 0.015mm	4 pcs	2 pcs	115-24-1	-	-	111-24-0
24-28"	± .0006"	600-700mm	± 0.016mm	4 pcs	2 pcs	115-28-1	115-28-0	-	111-28-0

## Inside Micrometers

203 / 207 Series



207-01-1



203-02-0

### FEATURES

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

### SPECIFICATIONS

Inch		Metric		Inch	Metric
Range	Accuracy	Range	Accuracy	Code No.	Code No.
<b>Digital models</b>					
.2-1.2"	± .0001"	5-30mm	± 0.005mm	207-01-1	207-01-0
-	-	25-50mm	± 0.006mm	-	207-02-0
<b>Mechanical models</b>					
.2-1.2"	± .0001"	5-30mm	± 0.005mm	203-01-1	203-01-0
1.0-2.0"	± .0002"	25-50mm	± 0.006mm	203-02-1	203-02-0
-	-	50-75mm	± 0.007mm	-	203-03-0
-	-	75-100mm	± 0.008mm	-	203-04-0



## Outside Micrometers

101 Series



101-01-0



101-66-8

### FEATURES

- Carbide tipped measuring faces
- Ratchet Stop
- Grey painted steel frame

### SPECIFICATIONS

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

Inch		Metric		Inch		Metric	
Range	Graduation	Range	Graduation	Code No.	Code No.	Code No.	Code No.
-	-	0-100mm	0.01mm	-	-	<b>101-64-8</b>	-
-	-	0-150mm	0.01mm	-	-	<b>101-66-8</b>	-
0-6"	.0001"	0-150mm	0.001mm	<b>101-66-7</b>	-	<b>101-66-6</b>	-



## Point Micrometers

126 Series



126-01-1

### SPECIFICATIONS

Inch		Metric			Inch	Metric
Range	Accuracy	Range	Accuracy	Anvil Type	Code No.	Code No.
0-1"	± .0001"	0-25mm	± 0.004mm	15°	<b>126-01-1</b>	<b>126-01-0</b>
-	-	0-25mm	± 0.004mm	30°	-	<b>126-01-2</b>

### FEATURES

- Resolution:
  - Digital reading: .00005" / 0.001mm
  - Scale on digital models: .0001" / 0.01mm
- Protection level IP65
- 15 degree and 30 degree measuring points are available
- Absolute or incremental measuring modes
- 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
- Automatic On/Off to maximize battery life
- Inch/Metric conversion
- Upon switching on the display will read the actual absolute measuring position

## Disc Micrometers

141 / 145 Series



145-01-1



141-02-3

### SPECIFICATIONS

Inch		Metric		Inch	Metric
Range	Accuracy	Range	Accuracy	Code No.	Code No.
<b>Digital models</b>					
0-1"	± .0001"	-	-	<b>145-01-1</b>	-
<b>Mechanical models</b>					
1-2"	± .0002"	25-50mm	± 0.005mm	<b>141-02-3</b>	<b>141-02-2</b>
-	-	50-75mm	± 0.006mm	-	<b>141-03-2</b>

### FEATURES

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

## Tube Micrometers

143 / 147 Series



147-01-1



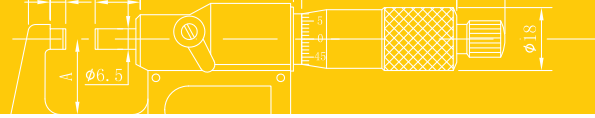
143-01-1

### SPECIFICATIONS

Inch		Metric		Inch	Metric
Range	Accuracy	Range	Accuracy	Code No.	Code No.
<b>Digital models</b>					
0-1"	± .0001"	0-25mm	± 0.004mm	<b>147-01-1</b>	<b>147-01-0</b>
<b>Mechanical models</b>					
0-1"	± .0001"	0-25mm	± 0.004mm	<b>143-01-1</b>	<b>143-01-0</b>

### FEATURES

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



## Blade Micrometers 117 Series



117-01-0

### SPECIFICATIONS

Range	Accuracy	Code No.
0-25mm	± 0.004mm	<b>117-01-0</b>
25-50mm	± 0.004mm	<b>117-02-0</b>

### FEATURES

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

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



208-12-0

### FEATURES

- Resolution:  
Digital models: .00005" / 0.001mm  
Mechanical models: .0001" / 0.001mm
- Protection level IP65
- Ratchet stop
- Setting Ring supplied
- Measuring contact points are designed to allow measurements near to the bottom of blind holes

### SPECIFICATIONS

Inch			Metric					
Range	Accuracy	Setting Ring	Range	Accuracy	Setting Ring	Extension Rod	Inch Code No.	Metric Code No.
<b>Digital models</b>								
.275-.35"	± .0001"	.275"	6-8mm	± 0.004mm	6mm	100mm	<b>208-11-1</b>	<b>208-11-0</b>
.35-.425"	± .0001"	.35"	8-10mm	± 0.004mm	8mm	100mm	<b>208-12-1</b>	<b>208-12-0</b>
.425-.5"	± .0001"	.5"	10-12mm	± 0.004mm	10mm	100mm	<b>208-13-1</b>	<b>208-13-0</b>
<b>Mechanical models</b>								
.275-.35"	± .0001"	.275"	6-8mm	± 0.004mm	6mm	100mm	<b>209-11-1</b>	<b>209-11-0</b>
.35-.425"	± .0001"	.35"	8-10mm	± 0.004mm	8mm	100mm	<b>209-12-1</b>	<b>209-12-0</b>
.425-.5"	± .0001"	.5"	10-12mm	± 0.004mm	10mm	100mm	<b>209-13-1</b>	<b>209-13-0</b>





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

208 / 209 Series



208-28-0



209-26-0

### FEATURES

- Resolution:
  - Digital models: .00005" / 0.001mm
  - Mechanical models: .0002" / 0.005mm
- Protection level IP65
- Ratchet stop
- Setting Ring supplied
- Measuring contact points are designed to allow measurements near to the bottom of blind holes
- Additional extensions can be added to increase the measuring depth
- Measuring surfaces are carbide

### SPECIFICATIONS

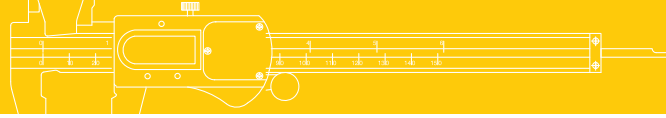
Inch			Metric				Inch	Metric
Range	Accuracy	Setting Ring	Range	Accuracy	Setting Ring	Extension Rod	Code No.	Code No.
<b>Digital models</b>								
.5-.65"	± .0001"	.65"	12-16mm	± 0.004mm	16mm	150mm	<b>208-24-1</b>	<b>208-24-0</b>
.65-.8"	± .0001"	.65"	16-20mm	± 0.004mm	16mm	150mm	<b>208-25-1</b>	<b>208-25-0</b>
.8-1"	± .0001"	1"	20-25mm	± 0.004mm	25mm	150mm	<b>208-26-1</b>	<b>208-26-0</b>
1-1.2"	± .0002"	1"	25-30mm	± 0.004mm	25mm	150mm	<b>208-27-1</b>	<b>208-27-0</b>
1.2-1.6"	± .0002"	1.6"	30-40mm	± 0.004mm	40mm	150mm	<b>208-28-1</b>	<b>208-28-0</b>
1.6-2"	± .0002"	1.6"	40-50mm	± 0.005mm	40mm	150mm	<b>208-29-1</b>	<b>208-29-0</b>
2-2.5"	± .0002"	2.5"	50-63mm	± 0.005mm	62mm	150mm	<b>208-30-1</b>	<b>208-30-0</b>
2.5-3"	± .0002"	2.5"	62-75mm	± 0.005mm	62mm	150mm	<b>208-31-1</b>	<b>208-31-0</b>
3-3.5"	± .0002"	3.5"	75-88mm	± 0.005mm	87mm	150mm	<b>208-32-1</b>	<b>208-32-0</b>
3.5-4"	± .0002"	3.5"	87-100mm	± 0.005mm	87mm	150mm	<b>208-33-1</b>	<b>208-33-0</b>
<b>Mechanical models</b>								
-	-	-	12-16mm	± 0.004mm	16mm	150mm	-	<b>209-24-0</b>
-	-	-	16-20mm	± 0.004mm	16mm	150mm	-	<b>209-25-0</b>
-	-	-	20-25mm	± 0.004mm	25mm	150mm	-	<b>209-26-0</b>
-	-	-	25-30mm	± 0.004mm	25mm	150mm	-	<b>209-27-0</b>
-	-	-	30-40mm	± 0.004mm	40mm	150mm	-	<b>209-28-0</b>
-	-	-	40-50mm	± 0.005mm	40mm	150mm	-	<b>209-29-0</b>
-	-	-	50-63mm	± 0.005mm	62mm	150mm	-	<b>209-30-0</b>
-	-	-	62-75mm	± 0.005mm	62mm	150mm	-	<b>209-31-0</b>
-	-	-	75-88mm	± 0.005mm	87mm	150mm	-	<b>209-32-0</b>
-	-	-	87-100mm	± 0.005mm	87mm	150mm	-	<b>209-33-0</b>

## Micrometer Stands

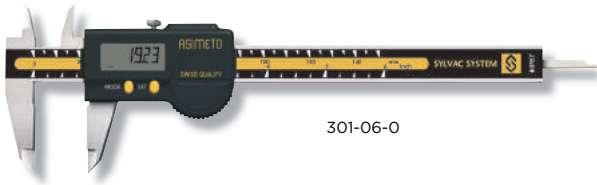
109 Series

- Designed to allow bench top use with hand micrometers
- Painted Cast-iron Base
- Code No: 109-02-1





## IP67 Digital Calipers \_ SYLVAC SYSTEM 301 Series



301-06-0

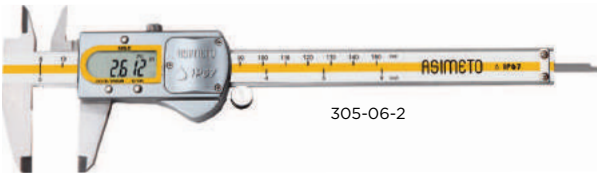
### SPECIFICATIONS

Inch		Metric		Code No.	Remark
Range	Accuracy	Range	Accuracy		
0-6"	± .001"	0-150mm	± 0.02mm	<b>301-06-0</b>	
0-6"	± .001"	0-150mm	± 0.02mm	<b>301-06-2</b>	round depth bar $\Phi$ 1.5mm
0-8"	± .0015"	0-200mm	± 0.03mm	<b>301-08-0</b>	
0-12"	± .0015"	0-300mm	± 0.03mm	<b>301-12-0</b>	

### FEATURES

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

## IP67 Digital Calipers 305 Series



305-06-2

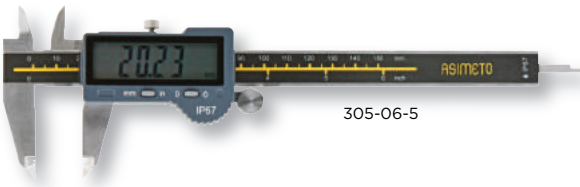
### SPECIFICATIONS

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

### FEATURES

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

## IP67 Big Screen Digital Caliper 305 Series



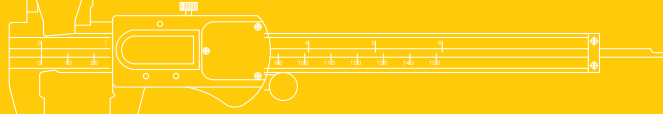
305-06-5

### SPECIFICATIONS

Inch		Metric		Code No.
Range	Accuracy	Range	Accuracy	
0-6"	± .001"	0-150mm	± 0.02mm	<b>305-06-5</b>
0-8"	± .0015"	0-200mm	± 0.03mm	<b>305-08-5</b>
0-12"	± .0015"	0-300mm	± 0.03mm	<b>305-12-5</b>

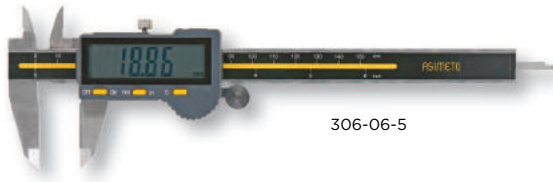
### FEATURES

- Resolution: .0005" / 0.01mm
- Large screen: (53,5 x 15,5mm) LCD display area
- Auto power off, extend battery life
- Inch/Metric conversion
- Memory function: Keep the reading even after the display is turned off
- Conforms to the IP67 ratings



## Big Screen Digital Caliper

306 Series



306-06-5

### SPECIFICATIONS

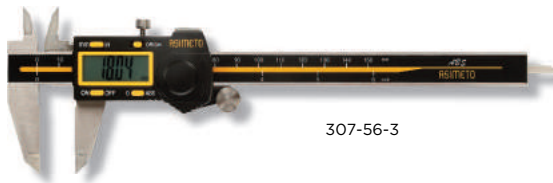
Inch		Metric		Code No.
Range	Accuracy	Range	Accuracy	
0-6"	± .001"	0-150mm	± 0.02mm	<b>306-06-5</b>
0-8"	± .0015"	0-200mm	± 0.03mm	<b>306-08-5</b>
0-12"	± .0015"	0-300mm	± 0.03mm	<b>306-12-5</b>

### FEATURES

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

## Absolute Digital Calipers

307 Series



307-56-3

### SPECIFICATIONS

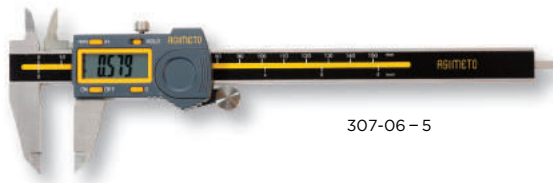
Inch		Metric		Code No.
Range	Accuracy	Range	Accuracy	
0-6"	± .001"	0-150mm	± 0.02mm	<b>307-56-3</b>
0-8"	± .0015"	0-200mm	± 0.03mm	<b>307-58-3</b>
0-12"	± .0015"	0-300mm	± 0.03mm	<b>307-62-3</b>

### FEATURES

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

## Digital Calipers (Four Buttons)

307 Series



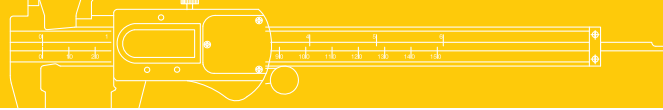
307-06-5

### SPECIFICATIONS

Inch		Metric		Code No.
Range	Accuracy	Range	Accuracy	
0-6"	± .001"	0-150mm	± 0.02mm	<b>307-06-5</b>
0-8"	± .0015"	0-200mm	± 0.03mm	<b>307-08-5</b>
0-12"	± .0015"	0-300mm	± 0.03mm	<b>307-12-5</b>

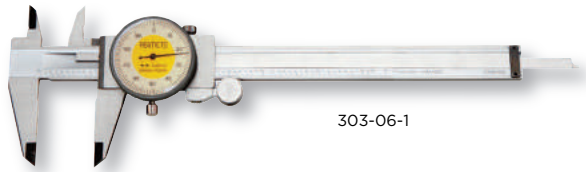
### FEATURES

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

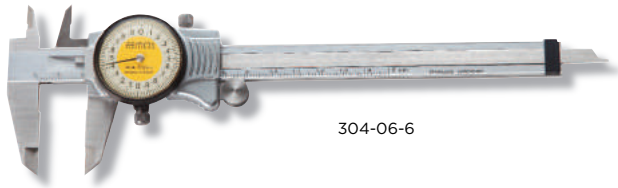


## Dial Calipers

303 / 304 Series



303-06-1



304-06-6

### SPECIFICATIONS

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

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

### FEATURES

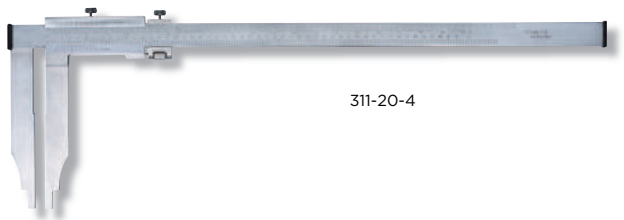
- Graduation:  
Inch: .001"  
Metric: 0.01mm or 0.02mm
- Stainless steel construction with all measuring surfaces surface-hardened
- Preloaded dual pinions eliminate backlash and provide better repeatability
- Thumb roller included

#### 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

## Long Jaw Vernier Calipers (Mono block)

311 Series



311-20-4

### FEATURES

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

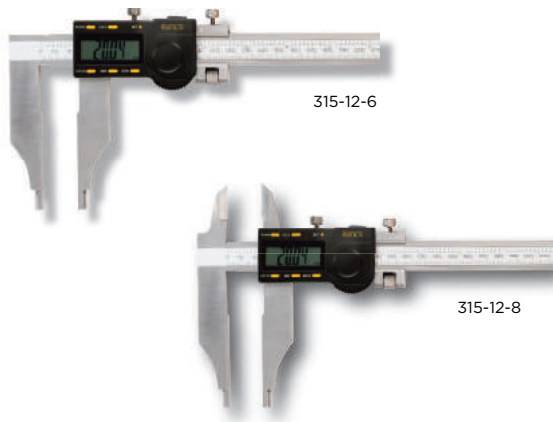
### SPECIFICATIONS

Range	Graduation	Range	Graduation	Accuracy	Jaw Length	Mono block
Lower	Lower	Upper	Upper			Code No.
0-300mm	0.02mm	0-12"	.001"	± 0.04mm	90mm	<b>311-12-4</b>
0-500mm	0.02mm	0-20"	.001"	± 0.05mm	200mm	<b>311-20-4</b>
0-750mm	0.02mm	0-30"	.001"	± 0.07mm	200mm	<b>311-30-4</b>
0-500mm	0.05mm	0-20"	1/128"	± 0.08mm	200mm	<b>311-20-6</b>



## ABS Heavy Duty Digital Calipers

315 Series



### SPECIFICATIONS

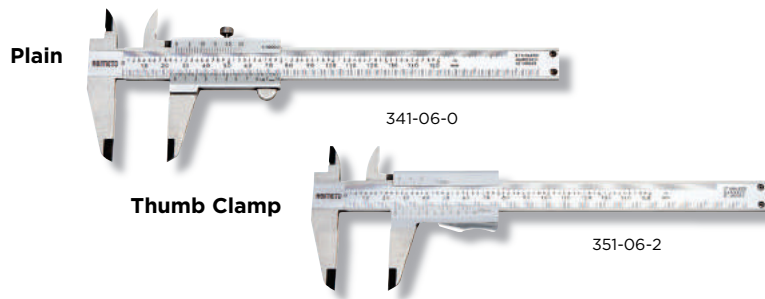
Inch		Metric		Accuracy	Jaw Length	Code No.
Range	Resolution	Range	Resolution			
<b>Without Upper Jaws</b>						
0-12"	.0005"	0-300mm	0.01mm	± 0.04mm	90mm	<b>315-12-6</b>
0-20"	.0005"	0-500mm	0.01mm	± 0.05mm	150mm	<b>315-20-6</b>
0-24"	.0005"	0-600mm	0.01mm	± 0.05mm	100mm	<b>315-24-6</b>
<b>With Upper Jaws</b>						
0-12"	.0005"	0-300mm	0.01mm	± 0.04mm	90mm	<b>315-12-8</b>
0-20"	.0005"	0-500mm	0.01mm	± 0.05mm	150mm	<b>315-20-8</b>

### FEATURES

- Designed with fine adjustment to allow precise movement of the slider
- Internal measurement jaws are rounded to provide accurate measurement of internal diameters
- Minimum internal diameter measurement capability of 20mm
- Inch/Metric conversion
- Zero setting at any position
- Absolute delivery reliable measurement
- Cable data output: 900-05-4
- Wireless data output: 901-00-4/6

## Vernier Calipers

341 / 351 Series



### FEATURES

- 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

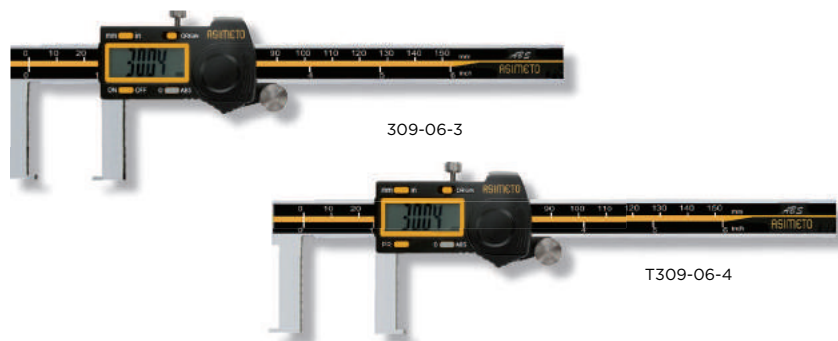
### SPECIFICATIONS

Range	Graduation	Range	Graduation	Accuracy	Note	Code No.
Lower	Lower	Upper	Upper			
<b>Plain</b>						
0-150mm	0.05mm	0-6"	1/128"	± 0.05mm	upper lock	<b>341-06-0</b>
0-200mm	0.05mm	0-8"	1/128"	± 0.05mm	upper lock	<b>341-08-0</b>
0-300mm	0.05mm	0-12"	1/128"	± 0.05mm	upper lock	<b>341-12-0</b>
0-150mm	0.02mm	0-6"	0.001"	± 0.02mm	upper lock	<b>341-06-4</b>
0-200mm	0.02mm	0-8"	0.001"	± 0.03mm	upper lock	<b>341-08-4</b>
0-300mm	0.02mm	0-12"	0.001"	± 0.04mm	upper lock	<b>341-12-4</b>
<b>Thumb Clamp</b>						
0-200mm	0.05mm	0-8"	1/128"	± 0.05mm	-	<b>351-08-0</b>
0-150mm	0.05mm	0-6"	1/128"	± 0.05mm	with round depth bar $\Phi$ 1.8mm	<b>351-06-2</b>



## ABS Digital Calipers for Outside/Inside Grooves

309 Series



### FEATURES

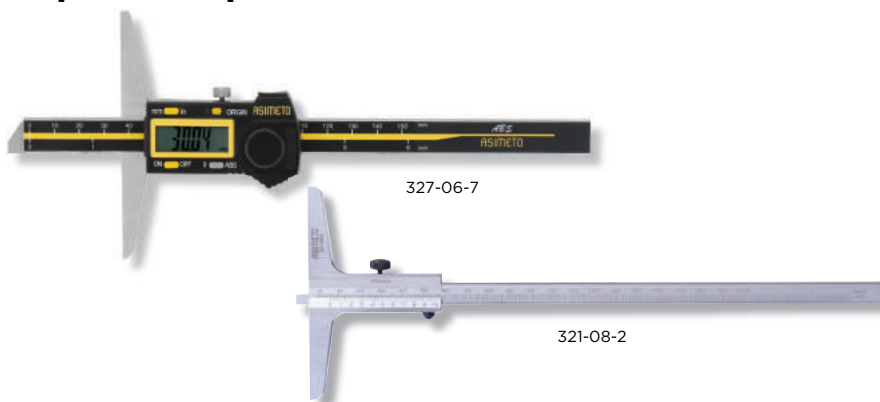
- Inch/Metric conversion
- Zero-setting at any position for incremental measurement
- ABS system delivery reliable measurement
- Automatic off to maximize battery life
- Cable data output: 900-05-4
- Wireless data output: 901-00-4/6

### SPECIFICATIONS

Inch			Metric			
Range	Resolution	Accuracy	Range	Resolution	Accuracy	Code No.
<b>Outside groove</b>						
0-6"	.0005"	± .001"	0-150mm	0.01mm	± 0.03mm	<b>309-06-3</b>
0-8"	.0005"	± .0015"	0-200mm	0.01mm	± 0.04mm	<b>309-08-3</b>
<b>Inside groove</b>						
0.8-6"	.0005"	± .001"	20-150mm	0.01mm	± 0.04mm	<b>T309-06-4</b>
1-8"	.0005"	± .0015"	25-200mm	0.01mm	± 0.04mm	<b>T309-08-4</b>
1.2-12"	.0005"	± .002"	30-300mm	0.01mm	± 0.05mm	<b>T309-12-4</b>

## Depth Calipers

321 / 327 Series



### FEATURES

- Both of the measuring surfaces are precision ground for accuracy
- Inch/Metric conversion
- Models are available in Absolute Digital- Vernier designs
- Cable data output: 900-05-4
- Wireless data output: 901-00-4/6

### SPECIFICATIONS

Inch			Metric			
Range	Graduation	Accuracy	Range	Graduation	Accuracy	Code No.
<b>ABS Digital models</b>						
0-6"	.0005"	± .001"	0-150mm	0.01mm	± 0.02mm	<b>327-06-7</b>
0-8"	.0005"	± .0015"	0-200mm	0.01mm	± 0.03mm	<b>327-08-7</b>
0-12"	.0005"	± .0015"	0-300mm	0.01mm	± 0.04mm	<b>327-12-7</b>
<b>Vernier models</b>						
-	-	-	0-150mm	0.02mm	± 0.02mm	<b>321-06-2</b>
-	-	-	0-200mm	0.02mm	± 0.03mm	<b>321-08-2</b>
-	-	-	0-300mm	0.02mm	± 0.04mm	<b>321-12-2</b>
-	-	-	0-150mm	0.05mm	± 0.05mm	<b>321-06-0</b>
-	-	-	0-200mm	0.05mm	± 0.05mm	<b>321-08-0</b>
-	-	-	0-300mm	0.05mm	± 0.05mm	<b>321-12-0</b>



## Depth Calipers With Single Hook

322 Series



322-06-7

### FEATURES

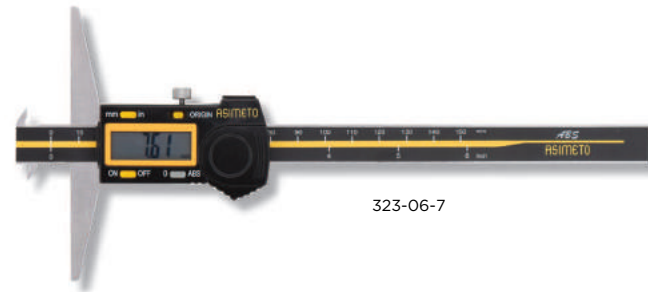
- The stationary measuring surface on the beam protrudes at right angles (measuring hook) to allow for the measurement of depths, internal groove positions, and other intricate characteristics
- Measurements can be taken on either side of the measuring hook
- All measuring surfaces are hardened
- Cable data output: 900-05-4
- Wireless data output: 901-00-4/6

### SPECIFICATIONS

Inch			Metric			Code No.
Range	Resolution	Accuracy	Range	Resolution	Accuracy	
0-6"	.0005"	± .001"	0-150mm	0.01mm	± 0.02mm	<b>322-06-7</b>
0-8"	.0005"	± .0015"	0-200mm	0.01mm	± 0.03mm	<b>322-08-7</b>
0-12"	.0005"	± .0015"	0-300mm	0.01mm	± 0.04mm	<b>322-12-7</b>

## Depth Calipers With Double Hook

323 Series



323-06-7

### FEATURES

- The hooked measuring surfaces are used for measurement of internal or external grooves and other intricate work piece characteristics
- The base and measuring faces are hardened and precision ground
- Cable data output: 900-05-4
- Wireless data output: 901-00-4/6

### SPECIFICATIONS

Inch			Metric			Code No.
Range	Resolution	Accuracy	Range	Resolution	Accuracy	
0-6"	.0005"	± .001"	0-150mm	0.01mm	± 0.02mm	<b>323-06-7</b>
0-8"	.0005"	± .0015"	0-200mm	0.01mm	± 0.03mm	<b>323-08-7</b>
0-12"	.0005"	± .0015"	0-300mm	0.01mm	± 0.04mm	<b>323-12-7</b>



## Thickness Gauges

491 Series



491-01-0

### FEATURES

- Designed for the measurement of paper, film, wire, sheet metal, jewelry, leather and similar materials
- Measurement anvils are flat
- Depth of throat : 30mm

### SPECIFICATIONS

Inch			Metric			Inch		Metric	
Dial models									
Range	Graduation	Accuracy	Range	Graduation	Accuracy	Code No.	Code No.		
0-0.4"	.001"	± .001"	0-10mm	0.01mm	± 0.015mm	<b>491-01-1</b>	<b>491-01-0</b>		

## Depth Gauges

473 / 475 Series



475-04-4



473-04-0

### FEATURES

- 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

### SPECIFICATIONS

Inch			Metric						
Range	Resolution	Accuracy	Range	Resolution	Accuracy	Stroke	Rods	Base Length	Code No.
Digital models									
0-4"	.0005"	± .001"	0-100mm	0.01mm	0.02mm	12.7mm	10 pcs	101.5 x 17mm	<b>475-04-2</b>
0-4"	.00005"	± .0005"	0-100mm	0.001mm	0.01mm	12.7mm	10 pcs	63 x 17mm	<b>475-04-4</b>
Dial models									
0-4"	.001"	± .002"	-	-	-	1"	4 pcs	4" x .63"	<b>473-04-3</b>
-	-	-	0-100mm	0.01mm	± 0.02mm	10mm	10 pcs	63.5 x 17mm	<b>473-04-0</b>





## 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

**SPECIFICATIONS**

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

## Digital Height Gauges

625 Series



**FEATURES**

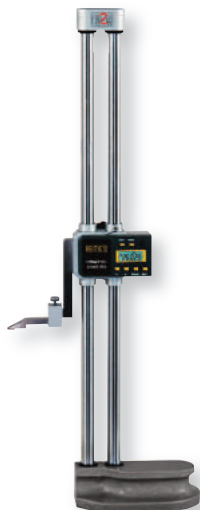
- Resolution: .0005" / 0.01mm
- Origin memory eliminates the need to zero the reading each time the height gauge is turned on
- Can be used with a test indicator and holder for precise measurement
- Inch/Metric conversion
- The fine-adjustment allows the slider to be precisely positioned
- The base is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

**SPECIFICATIONS**

Inch		Metric		Code No.
Range	Accuracy	Range	Accuracy	
0-12"	±.0015"	0-300mm	±0.04mm	<b>625-12-0</b>
0-24"	±.0020"	0-600mm	±0.05mm	<b>625-24-0</b>

## Double Beam Digital Height Gauges with Hand Wheel

627 Series



**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 for precise measurement
- High precision, measurement more accurate
- Zero setting at any position
- Metric/Inch system conversion
- Large LCD display

**SPECIFICATIONS**

Inch		Metric		Code No.
Range	Accuracy	Range	Accuracy	
0-12"	±.001"	0-300mm	±0.02mm	<b>627-12-0</b>
0-18"	±.0015"	0-450mm	±0.03mm	<b>627-18-0</b>
0-24"	±.0015"	0-600mm	±0.03mm	<b>627-24-0</b>



## Double Beam Digit Counter Height Gauges with Hand Wheel 623 Series



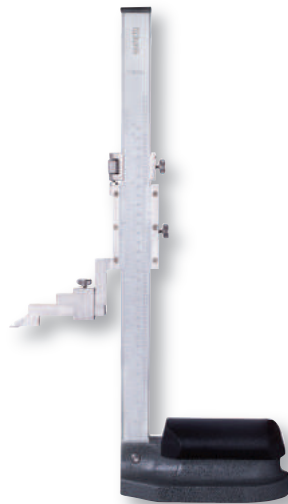
**FEATURES**

- 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

**SPECIFICATIONS**

Inch		Metric		Inch	Metric
Range	Accuracy	Range	Accuracy	Code No.	Code No.
0-12"	±.0015"	0-300mm	±0.04mm	623-12-1	623-12-0

## Vernier Height Gauges 621 Series



**FEATURES**

- 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

**SPECIFICATIONS**

Inch			Metric			
Range	Graduation	Accuracy	Range	Graduation	Accuracy	Code No.
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	± 0.07mm	621-24-2



## IP65 Digital Indicators

407 Series



407-01-4

### FEATURES

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

### SPECIFICATIONS

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

## Digital Indicators

405 Series



405-95-1

### FEATURES

- 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

### SPECIFICATIONS

Inch			Metric			Inch		Metric	
Range	Resolution	Accuracy	Range	Resolution	Accuracy	Code No.	Code No.		
0-.5"	.0005"	±.0015"	0-12.5mm	0.01mm	0.02mm	<b>405-95-1</b>	<b>405-95-0</b>		
0-1"	.0005"	±.0015"	0-25mm	0.01mm	0.02mm	<b>405-01-1</b>	<b>405-01-0</b>		
0-2"	.0005"	±.0015"	0-50mm	0.01mm	0.02mm	<b>405-02-1</b>	<b>405-02-0</b>		
-	-	-	0-12.5mm	0.001mm	0.004mm	-	<b>405-95-4</b>		
0-1"	.00005"	±.00015"	0-25mm	0.001mm	0.005mm	<b>405-01-5</b>	<b>405-01-4</b>		
-	-	-	0-50mm	0.001mm	0.006mm	-	<b>405-02-4</b>		

## Dial Comparators

422 Series



422-21-2

### FEATURES

- High accuracy
- Jeweled and shock proof
- Water and dust resistant design
- With 8mm stem diameter

### SPECIFICATIONS

Range	Resolution	Dial reading	Accuracy	Code No.
<b>G Series</b>				
±.002"	.00005"	.002-0-.002	±.00006"	<b>422-21-1</b>
±0.05mm	0.001mm	50-0-50	0.0012mm	<b>422-21-2</b>



## AGD1 Dial Indicators



401-06-1

401 Series

### FEATURES

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

### SPECIFICATIONS

Range	Graduation	Range / Rev.	Dial reading	Accuracy	Code No.
<b>Stem diameter Ø3/8"</b>					
.25"	.001"	.1"	0-100	±.001"	<b>401-06-1</b>
<b>Stem diameter Ø8mm</b>					
5mm	0.01mm	0.5mm	0-50	0.012mm	<b>401-05-0</b>

## AGD2 Dial Indicators



402-10-0

402 Series

### SPECIFICATIONS

Range	Graduation	Range / Rev.	Dial reading	Accuracy	Code No.
<b>Stem Diameter Ø3/8"</b>					
.05"	.0001"	.01"	0-100	±.0001"	<b>402-01-1</b>
.05"	.0001"	.01"	0-50-0	±.0001"	<b>402-01-3</b>
.25"	.001"	.1"	0-100	±.002"	<b>402-06-1</b>
.50"	.001"	.1"	0-100	±.002"	<b>402-12-1</b>
1"	.001"	.1"	0-100	±.002"	<b>402-26-1</b>
1"	.001"	.1"	0-50-0	±.002"	<b>402-26-3</b>
2"	.001"	.1"	0-100	±.004"	<b>402-51-1</b>
<b>Stem Diameter Ø8mm</b>					
1mm	0.001mm	0.2mm	0-200	0.005mm	<b>402-01-0</b>
1mm	0.001mm	0.2mm	0-100-0	0.005mm	<b>402-01-2</b>
3mm	0.01mm	1mm	0-100	0.010mm	<b>402-03-0</b>
5mm	0.01mm	1mm	0-100	0.012mm	<b>402-05-0</b>
10mm	0.01mm	1mm	0-100	0.015mm	<b>402-10-0</b>
25mm	0.01mm	1mm	0-50-0	0.035mm	<b>402-25-0</b>
30mm	0.01mm	1mm	0-100	0.035mm	<b>402-30-0</b>

### FEATURES

- 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

## Dial Indicators - One revolution for Error-free Reading

422 Series



422-01-0

### FEATURES

- AGD2 series, dial face dia. Ø2.20" / Ø58mm
- Easy to read dial face
- A pair of limit hands are provided for quick and easy tolerance judgment
- Provided with an improved resistance to shop floor contaminants such as water and dust
- With Flat back
- With Ø8mm stem diameter

### SPECIFICATIONS

Range	Graduation	Dial reading	Accuracy	Code No.
±0.4mm	0.01mm	40-0-40	0.009mm	<b>422-01-0</b>
<b>G Series</b>				
±0.08mm	0.001mm	90-0-90	0.009mm	<b>422-02-1</b>
±0.2mm	0.005mm	20-0-20	0.009mm	<b>422-03-1</b>



## Dial Test Indicators

501 / 502 / 511 / 512 Series



Vertical



Horizontal



501-02-1

### FEATURES

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

### SPECIFICATIONS

Range	Graduation	Dial reading	Accuracy	Note	Φ32mm / Φ1.26" DIA.		Φ40mm / Φ1.57" DIA.
					Code No.	Set Code No.	Code No.
<b>Inch</b>							
.008"	.0001"	0-4-0	±.0001"	Horizontal	501-78-3	501-78-7	-
.03"	.0005"	0-15-0	±.0005"	Horizontal	501-73-3	501-73-8	-
.03"	.0005"	0-15-0	±.0005"	Vertical	501-73-5	-	-
<b>Metric</b>							
0.2mm	0.002mm	0-100-0	0.004mm	Horizontal	501-02-1	-	-
0.2mm	0.002mm	0-100-0	0.004mm	Horizontal	501-02-2	-	502-02-2
0.8mm	0.01mm	0-40-0	0.013mm	Horizontal	501-08-2	-	502-08-2
0.8mm	0.01mm	0-40-0	0.013mm	Vertical	-	-	502-08-4
1.0mm	0.01mm	0-50-0	0.013mm	Horizontal	501-10-2	-	502-10-2
<b>G Series</b>							
0.2mm	0.002mm	0-100-0	0.004mm	Horizontal	501-02-6	-	502-02-6
0.8mm	0.01mm	0-40-0	0.008mm	Horizontal	501-08-6	-	502-08-6
<b>IP53 model</b>							
0.2mm	0.002mm	0-100-0	0.004mm	Horizontal	511-02-6	-	512-02-6
0.8mm	0.01mm	0-40-0	0.013mm	Horizontal	511-08-6	-	512-08-6

## Extended Range Dial Test Indicator Sets

504 Series



504-81-1

### SET #1

#### 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

#### SPECIFICATIONS

Range	Graduation	Dial Dia.	Accuracy	Set Code No.
.060"	.0005"	1.5"	± 0.0012"	504-81-1
.060"	.0005"	1.0"	± 0.0012"	504-81-3



## Extended Range Dial Test Indicators

503 / 504 Series

### FEATURES

- 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



503-06-1



503-56-1



504-56-3

### SPECIFICATIONS

					Φ30mm / Φ1.18" Dia.	Φ38mm / Φ1.50" Dia.
Range	Graduation	Dial Reading	Accuracy	Note	Code No.	Code No.
<b>Inch</b>						
.060"	.0005"	0-15-0	±.0012"	Horizontal	<b>503-56-1</b>	<b>504-56-1</b>
.060"	.0005"	0-15-0	±.0012"	Vertical	<b>503-56-3</b>	<b>504-56-3</b>
<b>Metric</b>						
1.6mm	0.01mm	0-40-0	±0.02mm	Horizontal	<b>503-56-0</b>	<b>504-56-0</b>

## Centering Indicators

469 Series



469-00-6

### FEATURES

- Graduation: .0005" / 0.01mm
- Provides a simplified method of centering a work piece or fixture on horizontal for vertical machines, internal or external diameters. Face of indicator remains stationary in any desired position while the machine spindle rotates, leaving the operator with both hands free to accurately position the machine table
- Shank Dia.: Ø3/8" / Ø10mm
- Operating speed not to exceed 800 RPM
- Range:  
Internal: 5/32" - 12" / 4 - 300mm  
External: Up to 12" / 300mm

### SPECIFICATIONS

	Dial range	Accuracy	Code No.
<b>Metric</b>	0-3mm	0.01mm	<b>469-00-6</b>
<b>Inch</b>	0- .15"	±.0015"	<b>469-00-8</b>



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

## Articulating Arm Magnetic Bases

602 Series

### SPECIFICATIONS

Magnetic Power	Magnetic Base (L X W X H)	Height	Dia. of Hole	Slot	Code No.
30 kgf	40x30x35mm	215mm	Φ3/8" / Φ8mm	6.5mm	602-01-1
80 kgf	60x50x55mm	350mm	Φ3/8" / Φ8mm	6.5mm	602-02-1
80 kgf	60x50x55mm	440mm	Φ3/8" / Φ8mm	6.5mm	602-03-1
130 kgf	117x50x55mm	690mm	Φ3/8" / Φ8mm	6.5mm	602-05-1



602-02-1

### FEATURES

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

## Combination Square Sets

490 Series

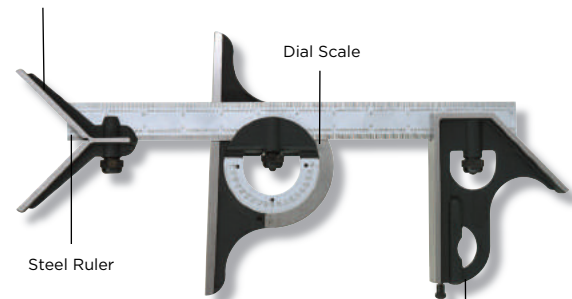
### FEATURES

- 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	490-20-8
4 pcs Set (With 4R ruler)	12"/300mm	490-21-8

45° Center Gauge



Steel Ruler

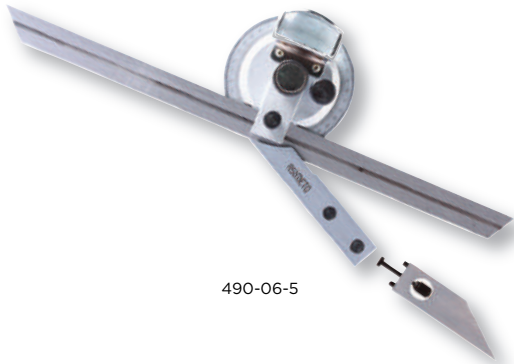
490-20-8

Square



## Universal Bevel Protractors

490 Series



490-06-5

### FEATURES

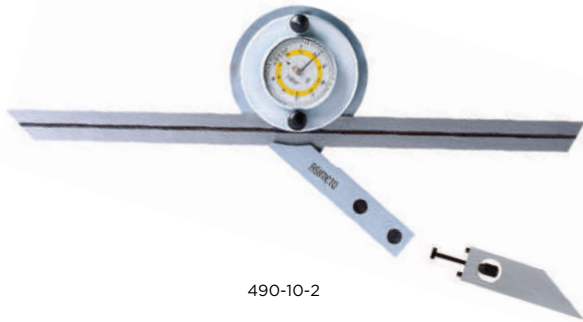
- Dial Graduation: 1°, Vernier: 5'
- Designed to provide precise angular measurements
- Magnifying glass is provided for easier reading
- Can be used with a standard height gauge to provide angular measurement from reference plate
- Accuracy: ±5 min

### SPECIFICATIONS

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

## Dial Protractor

490 Series



490-10-2

### FEATURES

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

### SPECIFICATIONS

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

## Digital Protractor

490 Series



490-15-2

### FEATURES

- Resolution: 10"
- Measuring Range: 0-360°
- Range selection: 1 x 360°, 2 x 180°, 4 x 90°
- Dual reading LCD display arc minutes / decimal degrees
- With fine adjustment
- Preset function
- Accuracy: ±5 min

### SPECIFICATIONS

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





## 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

### SPECIFICATIONS

Range	Graduation	Dial Travel	Accuracy	Number of Anvils	Number of Spacers	Number of Sub-anvils	Probe Depth	Code No.
<b>Inch</b>								
.7-1.5"	.0001"	.05" (AGD2)	±.0003"	10	2	-	6"	<b>483-21-1</b>
2-6"	.0001"	.05" (AGD2)	±.0003"	11	4	1	6"	<b>483-31-1</b>
<b>Metric</b>								
10-18mm	0.001mm	1mm (AGD1)	0.007mm	9	1	-	100mm	<b>483-12-0</b>
18-35mm	0.001mm	1mm (AGD2)	0.007mm	9	1	-	150mm	<b>483-21-0</b>
35-50mm	0.001mm	1mm (AGD2)	0.007mm	4	4	-	150mm	<b>483-22-0</b>
50-160mm	0.001mm	1mm (AGD2)	0.007mm	12	4	1	150mm	<b>483-31-0</b>
160-250mm	0.001mm	1mm (AGD2)	0.007mm	5	5	1	400mm	<b>483-32-0</b>
<b>Metric</b>								
6-10mm	0.01mm	3mm (AGD1)	0.015mm	9	-	-	40mm	<b>484-11-0</b>
10-18mm	0.01mm	3mm (AGD1)	0.015mm	9	1	-	100mm	<b>484-12-0</b>
18-35mm	0.01mm	3mm (AGD2)	0.020mm	9	2	-	150mm	<b>484-21-0</b>
35-50mm	0.01mm	3mm (AGD2)	0.020mm	4	4	-	150mm	<b>484-22-0</b>
50-160mm	0.01mm	3mm (AGD2)	0.025mm	12	4	1	150mm	<b>484-31-0</b>
160-250mm	0.01mm	3mm (AGD2)	0.025mm	5	5	1	400mm	<b>484-32-0</b>
250-400mm	0.01mm	3mm (AGD2)	0.025mm	5	5	2	400mm	<b>484-33-0</b>



484-22-0

## Telescoping Gauges

487 Series

### FEATURES

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

### SPECIFICATIONS

	Inch	Metric	
Model	Range	Range	Code No.
6 pcs	5/16"-6"	8-150mm	<b>487-86-9</b>



487-86-9

## Steel Squares

639 Series

### FEATURES

- Made of precision ground hardened stainless steel
- Accuracy according to DIN875

### SPECIFICATIONS



639-23-0

Inch Size	Metric Size	Regular Type		Bevel Type	
		Grade	Code No.	Grade	Code No.
<b>General Type Squares</b>					
4" x 2.75"	100 x 70mm	0	-	00	<b>639-23-0</b>
6" x 4"	150 x 100mm	0	-	00	<b>639-24-0</b>
8" x 5"	200 x 130mm	0	<b>639-25-4</b>	00	<b>639-25-0</b>
12" x 8"	300 x 200mm	0	<b>639-27-4</b>	00	<b>639-27-0</b>

## 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



606-53-2



606-51-4

Range	Sensitivity	Code No.
<b>Straight Models</b>		
200 x 47mm	0.02mm/m	<b>606-51-4</b>
<b>Square Models</b>		
200 x 200 x 40mm	0.02mm/m	<b>606-53-2</b>

## Digital Protractors - Level Type

490 Series

### SPECIFICATIONS



490-16-2

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

### 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

## Surface Roughness Standards

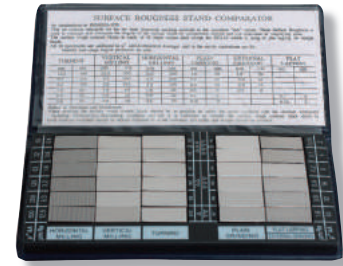
506 Series

### FEATURES

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

### SPECIFICATIONS

Qty.	Contents	Roughness	Code No.
2 pcs	Flat Lapping	0.05; 0.1µm (2; 4µ")	506-01-0
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")	



506-01-0

## 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

### SPECIFICATIONS

Blocks per Set	Blocks Included In Set	Grade	Steel	Code No.
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	1		650-12-1
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	1		650-13-1
47 (ASME/DIN/GB)	1 blocks: 1.005mm 20 blocks: 1.01-1.20mm x 0.01mm step 7 blocks: 1.3-1.9mm x 0.1mm step 9 blocks: 1-9mm x 1mm step 10 blocks: 10-100mm x 10mmstep	1		650-14-1
32 (ASME/DIN/JIS/GB)	1 blocks: 1.005mm 9 blocks: 1.01-1.09mm x 0.01mm step 9 blocks: 1.1-1.9mm x 0.1mm step 9 blocks: 1-9mm x 1mm step 4 blocks: 10mm, 20mm, 30mm, 50mm	1		650-16-1



650-63-0



## 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.
2mm	670-02-7
3mm	670-03-7
4mm	670-04-7
5mm	670-05-7
6mm	670-06-7
7mm	670-07-7
8mm	670-08-7
10mm	670-10-7
12mm	670-12-7
16mm	670-16-7
20mm	670-20-7
40mm	670-40-7
50mm	670-50-7

#### Ring Gauge

Size	Code No.
3mm	675-03-0
4mm	675-04-0
5mm	675-05-0
8mm	675-08-0
9mm	675-09-0
10mm	675-10-0
12mm	675-12-0
14mm	675-14-0
15mm	675-15-0
16mm	675-16-0
18mm	675-18-0
20mm	675-20-0
-	-

Size	Code No.
30mm	675-30-0
35mm	675-35-0
40mm	675-40-0
50mm	675-50-0
60mm	675-60-0
75mm	675-75-0
80mm	675-80-0
90mm	675-90-0
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.
<b>ISO-Metric Coarse Thread</b>			
M2	680-02-0	-	-
M3	680-03-0	683-03-1	684-03-0
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
M10	680-10-2	683-10-1	684-10-0
M12	680-12-2	683-12-1	684-12-0
M14	680-14-2	-	-
<b>ISO-Metric Fine Thread</b>			
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
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

	Plug Gauge 6H	Ring Gauge"GO" 6g	Ring Gauge"NO GO" 6g
Size	Code No.	Code No.	Code No.
M16	680-16-2	683-16-1	684-16-0
M18	680-18-2	683-18-1	684-18-0
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	-
<b>ISO-Metric Fine Thread</b>			
M24x1.5	682-24-5	685-24-5	686-24-5
M25x1.5	682-25-5	-	-
M26x1.5	682-26-5	-	-
M27x1.5	682-27-5	685-27-5	686-27-5
M28x1.5	682-28-5	-	-
M30x1.5	682-30-5	685-30-5	686-30-5
M32x1.5	682-32-5	-	-
M36 x1.5	682-36-5	685-36-5	686-36-5
M33x3	682-33-7	685-33-7	686-33-7
M36x3	682-36-7	685-36-7	686-36-7
-	-	-	-



# Whitworth Pipe Thread Plug Gauges and Ring Gauges

690 Series

- Right hand, DIN ISO 228

**SPECIFICATIONS**

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

# ANSI Inch Thread Plug Gauges and Adjustable Ring Gauges

695 Series

**FEATURES**

- Aluminum handles
- ANSI Standard



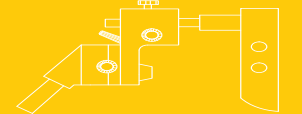
695-42-2



695-32-5

**SPECIFICATIONS**

	Plug Gauge Double End (Class 2B)	Ring Gauge "GO" (Class 2A)	Ring Gauge "NO GO" (Class 2A)
Size	Code No.	Code No.	Code No.
2 - 56	695-04-2	-	-
4 - 40	695-08-2	695-08-4	695-08-5
6 - 32	695-12-2	695-12-4	695-12-5
8 - 32	695-14-2	695-14-4	695-14-5
10 - 24	695-16-2	-	-
10 - 32	695-17-2	695-17-4	695-17-5
1/4 - 20	695-20-2	695-20-4	695-20-5
1/4 - 28	695-21-2	695-21-4	695-21-5
5/16 - 18	695-23-2	695-23-4	695-23-5
5/16 - 24	695-24-2	695-24-4	695-24-5
3/8 - 16	695-26-2	695-26-4	695-26-5
3/8 - 24	695-27-2	695-27-4	695-27-5
1/2 - 13	695-32-2	695-32-4	695-32-5
1/2 - 20	695-33-2	695-33-4	695-33-5
5/8 - 18	695-39-2	695-39-4	695-39-5
3/4 - 16	695-42-2	695-42-4	695-42-5
1 - 12	695-48-2	-	-



## Impact Hardness Testers

640 Series

### FEATURES

- Large screen with color display, allows for clear display of all functions and parameters
- Hardness test can be taken at any angle including inverted
- A wide measuring range supports the hardness of all metallic materials. Hardness results are directly displayed in HRB, HRC, HV, HB, HS, HL hardness scales.
- Six impact devices are available for special application with automatic impact device recognition
- Diameter of carbide ball: 3mm.
- Large capacity memory storage of 500 sub groups. Stored information including single measured value, mean value, test data, impact 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



640-17-1

### SPECIFICATIONS

Range	Accuracy	Application Range	Impact devices	Impact Capacity	Code No.
(170-960) HLD (17-68.5) HRC (19-651) HB	HLD: ±5 HRC: ±1 HB: ±4	Test the normal smooth, flat surface	D	11 Nmm	ENG/CHN <b>640-17-1</b>

## Tool Kits

960 Series

### Kit #14B Digital Plus

	Inch	Metric
Code No.	<b>960-14-1B</b>	<b>960-14-0B</b>

Individual Description	Individual Code No.	Individual Code No.
ARTICULATING ARM WITH MAGNETIC BASE, TYPE II	<b>602-02-1</b>	<b>602-02-1</b>
0-.03" x .0005", 0-0.8mm x 0.01mm Horiz. Dial Test Indicator.	<b>501-73-3</b>	<b>501-08-2</b>
0-1" x .001", 0-25mm x 0.01mm Outside Mic.	<b>101-01-1</b>	<b>101-01-0</b>
0-1" x .00005", 0-25mm x 0.001mm Digital Outside Mic.	<b>105-01-5</b>	<b>105-01-4</b>
0-.5" x .0005", 0-10mm x 0.01mm AGD2 Dial Indicator	<b>402-12-1</b>	<b>402-10-0</b>
0-.5" x .0005", 0-12.5mm x 0.01mm Digital Indicators	<b>407-01-3</b>	<b>407-01-2</b>
0-6" x .0005", 0-150mm x 0.01mm ABS Digital Caliper	<b>307-56-3</b>	<b>307-56-3</b>
0-6" x .0005", 0-150mm x 0.01mm Dial Caliper	<b>304-06-5</b>	<b>P303-06-0</b>





## 2D Height Gauge Value<sup>Plus</sup> 300/600

628 Series

### FEATURES

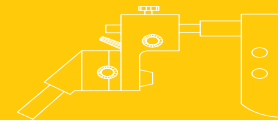
- New generation Value<sup>Plus</sup> 2D height gauge provide 300mm or 600mm measuring range
- New designed probe hold system, measuring range can be extended to 570mm and 870mm
- New designed 8mm diameter probe hold system, compatible with popular standard probe on the market
- New designed operating system and measuring software provide more stability and reliability  
Measuring result can be displayed on the 6.4" color screen

### SPECIFICATIONS

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




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










## Data Output Cables

900 Series

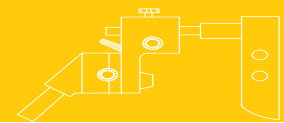
	Used For	Interface to PC	Data	corresponding	Code No.
	ABS Digital caliper Digital Micrometer Heavy Duty Digital Calipers	USB	Dot Data Format	105-XX-4 ; 105-XX-5 315-XX-6 ; 315-XX-8	<b>900-05-4</b>
	IP65 Digital Indicator	USB	Dot Data Format	407-XX-2 ; 407-XX-3 407-XX-4 ; 407-XX-5	<b>900-07-0</b>
	Footswitch for wireless device				<b>900-90-1</b>

## Wireless Data Output Devices

901 Series

	Used For	Function	Frequency	Code No.
	IP65 Digital Indicator	Output	2.4G	<b>901-00-2</b>
	ABS Digital caliper Digital Micrometer Heavy Duty Digital Calipers IP65 Digital Indicator	Input	2.4G	<b>901-00-3</b>
	ABS Digital caliper Digital Micrometer Heavy Duty Digital Calipers	Output	2.4G	<b>901-00-4</b>
	ABS Digital caliper Digital Micrometer Heavy Duty Digital Calipers	Output	2.4G	<b>901-00-6</b>
	IP65 Digital Indicator	Output	2.4G	<b>901-00-7</b>





## Archer Portable 3D scanner

### FEATURES

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



### STANDARD SCANNING MODE (RED LASER)

	Archer 3	Archer 3 Ultra	Archer 7	Archer 7 Ultra
Scanning speed	265,000 points/sec		480,000 points/sec	
Scanning area	225 x 250 mm		275 x 250 mm	
Scanning distance	200 ~ 450 mm			
Best Scanning distance	300 mm			
Depth of field	250 mm			
Resolution	0.05 mm			
Accuracy	0.03 mm			
Volumetric accuracy	0.02 mm + 0.08 mm/m		0.02 mm + 0.06 mm/m	
Light source	3 red laser crosses + 1 extra line		7 red laser crosses + 1 extra line	
Weight	0.95 kg			
Dimension	160 x 98 x 320 mm			
Part size range(recommended)	10 ~ 6000 mm			
Output format	.stl, .ply, .xyz, .dae, .fbx, .ma, .obj, .asc			
Laser class	2M (eye-safe)			
Connection standard	Gigabit Ethernet			
Operating environment	Temperature : -10 ~ 40°C , Humidity : 10 ~ 90 %			

### FINE SCANNING MODE (BLUE LASER)

	Fine scanning mode
Scanning speed	320,000 points/sec
Scanning distance	100 ~ 200 mm
Best Scanning distance	150 mm
Depth of field	100 mm
Resolution	0.02 mm
Accuracy	0.02 mm
Light source	5 parallel blue laser lines

Note: Only available for Ultra series





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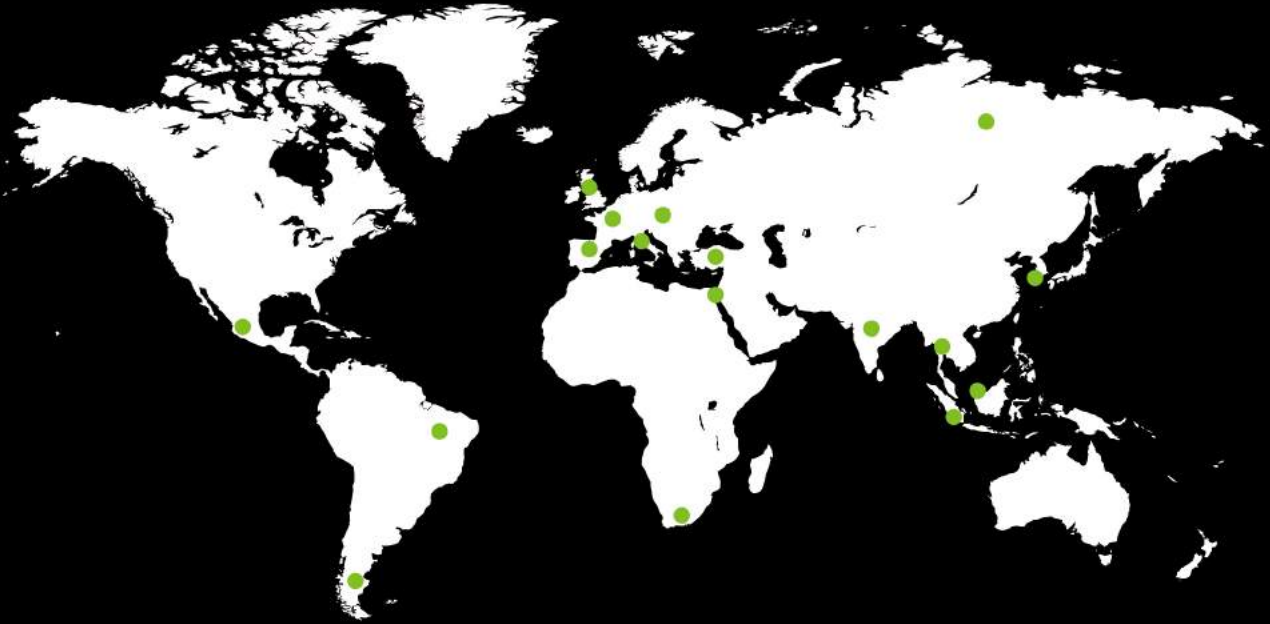
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