

BATCO

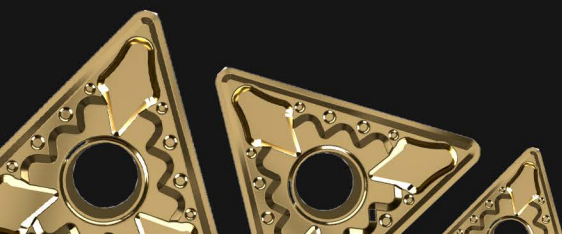
تامین ابزار باوند



تهران، خیابان امام خمینی
روبروی وزارت امور خارجه



مرکز فروش: ۰۲۱-۶۶۷۰ ۸۵۲۴
فکس: ۰۲۱-۵۵۳۹ ۳۰۷۸





ASIMETO

CATALOG NO. AS2021

INDEX

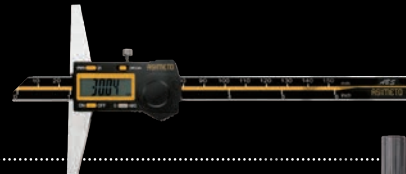
6 Micrometers



54 Calipers



86 Depth & Height Gauges



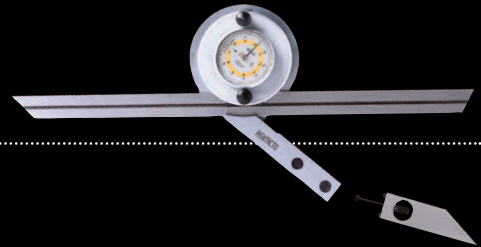
96 Indicator & Dial Gauges



120 Bore Gauges



130 Other Gauges



148 Gauges



169 Testers & Optical Instrument



Precision

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

ASIMETO - Empowering Possibilities.

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

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

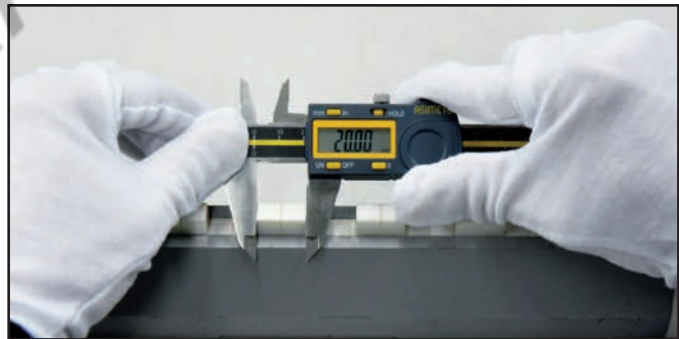
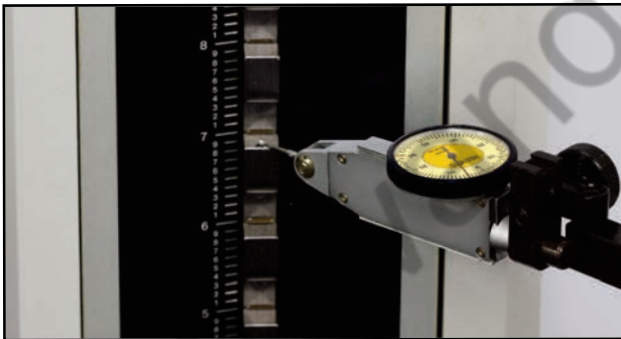
Asimeto Calibration Laboratory

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

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

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

ASIMETO Calibration Lab



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Product Description

Calibration Certificate

ASIMETO

Calibration Lab

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

| | | | |
|---------------------|--------|-------------------|--------|
| Function Inspection | Passed | Visual Inspection | Passed |
|---------------------|--------|-------------------|--------|

Outside Measurements

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

Inside Measurements

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

Depth Measurements

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

Master information

| Master information | | Due Date | |
|--------------------|--------|-------------|----------|
| Depth set | 258254 | NIST-192837 | 2013-8-1 |
| Gauge Block Set | 258254 | NIST-95837 | 2013-8-1 |
| Setting Rings | 258254 | NIST-455837 | 2013-8-1 |

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

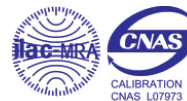
Attach invoice for proof of purchase date

* Check mark indicates within tolerance

Calibrator *[Signature]*

Approved By *[Signature]*

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



1

Inspection Point & Result

3

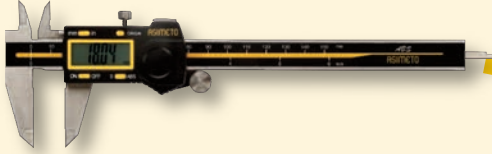
Disposition

4

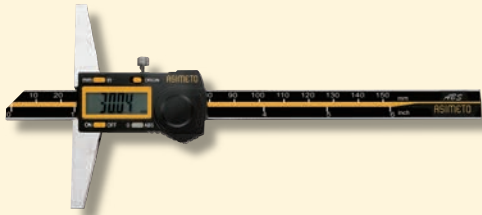
Traceable No.

Data Collection Measuring Tools

ABS Digital Caliper



Depth Calipers



Digital Micrometer



Digital Indicator



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








Measure Report

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






Data Output Cables

900 Series

| Used For | Interface to PC | Data | Corresponding | Code No. |
|---|-----------------|-------------------|--|-----------------|
|  | USB | Dot Data Format | 307-XX-2 ; 307-XX-3 105-XX-4 ; 105-XX-5 | 900-05-4 |
| | | Comma Data Format | 315-XX-6 ; 315-XX-8 | 900-05-5 |
|  | USB | Dot Data Format | 407-XX-2 ; 407-XX-3 407-XX-4 ; 407-XX-5 | 900-07-0 |
| | | Comma Data Format | | 900-07-1 |
|  | USB | Dot Data Format | 405-95-X ; 405-01-X 405-02-X ; 405-04-X | 900-20-0 |
|  | USB | Dot Data Format | Special Digital Micrometer | 900-10-0 |
| | USB | Dot Data Format | Special Digital Micrometer | 900-10-2 |
|  | | | | 900-90-1 |

Wireless Data Output Devices

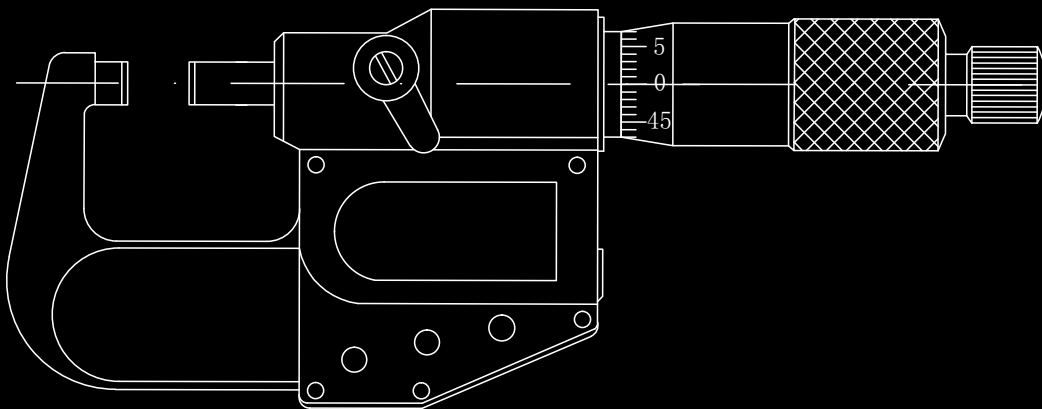
901 Series

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



Micrometers

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



IP65 Digital Outside Micrometers

105 Series



105-01-4



105-66-8



Ball Anvil



S-wrench



Standard

FEATURES

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

STANDARD ACCESSORIES

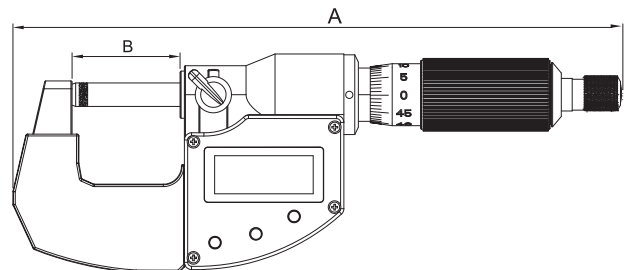
- S-wrench, Battery, Ball Anvil, Standard (over 1" / 25mm range)
- Warranty card, Calibration certificate, Instruction manual

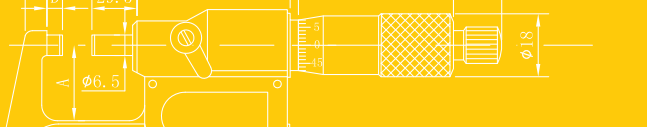
SPECIFICATIONS

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

Dimension

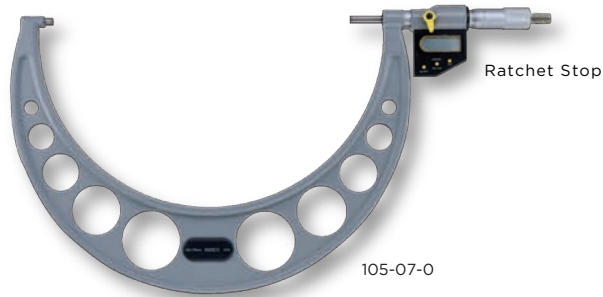
| Range | B | A |
|----------------|-----|-----|
| Inch/Metric | mm | mm |
| 0-1"/0-25mm | 30 | 168 |
| 1-2"/25-50mm | 55 | 198 |
| 2-3"/50-75mm | 81 | 226 |
| 3-4"/75-100mm | 106 | 256 |
| 4-5"/100-125mm | 131 | 286 |
| 5-6"/125-150mm | 156 | 316 |





IP65 Digital Outside Micrometers

105 Series



Ball Anvil



S-wrench



Standard

FEATURES

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

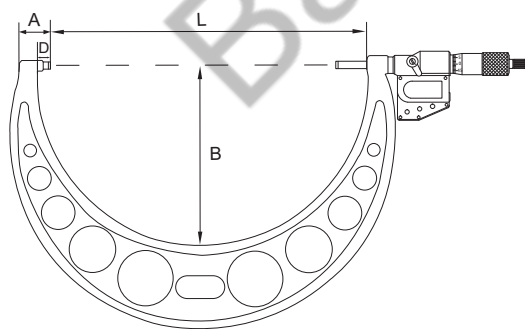
STANDARD ACCESSORIES

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

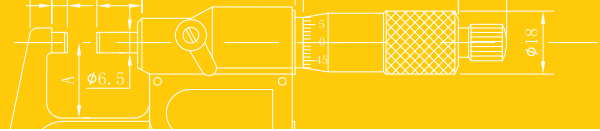
SPECIFICATIONS

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

Dimension



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



Digital Outside Micrometers

116 Series



116-01-0



Ball Anvil

Standard

FEATURES

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

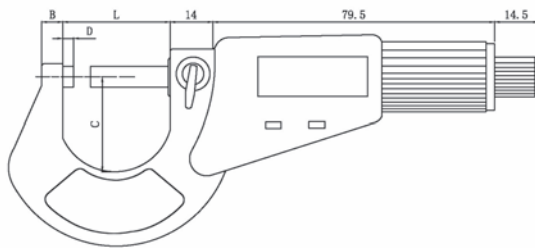
STANDARD ACCESSORIES

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

SPECIFICATIONS

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

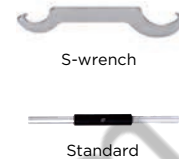
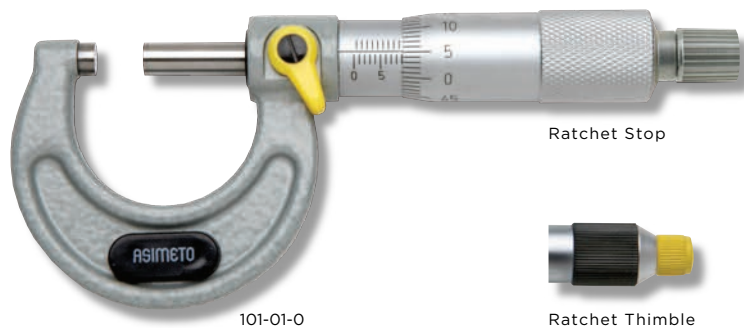
Dimension



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

Outside Micrometers

101 / 103 Series



FEATURES

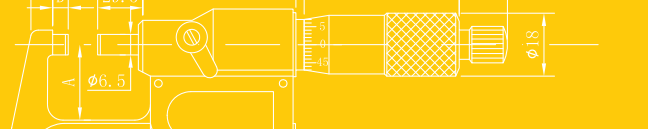
- Graduation: Inch: .001" / .0001" ; Metric: 0.01mm / 0.001mm
- Flatness: .000024" / 0.6µm
- Carbide tipped measuring faces
- Ratchet Stop and Ratchet Thimble are optional
- Grey painted steel frame

STANDARD ACCESSORIES

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

SPECIFICATIONS

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



Outside Micrometer Sets

101 Series

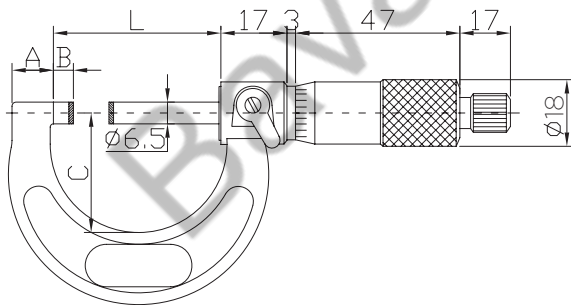


101-66-8

SPECIFICATIONS

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

Dimension



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



Interchangeable Anvil Outside Micrometers

111 / 115 Series



Digital models



111-06-1



S-wrench



Torque Wrench



Standard



Guiding rings

FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .001" / 0.01mm
 - Flatness: .00004" / 1µm
- Ratchet stop
- Interchangeable anvils provide wider measuring ranges
- Carbide tipped measuring faces
- Grey painted steel frame for models up to 12" / 300mm
- Grey welded pipe frame for models over 12" / 300mm models
- Inch / Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On / Off to maximize battery life
- Absolute or incremental measuring modes
- Protection level IP65

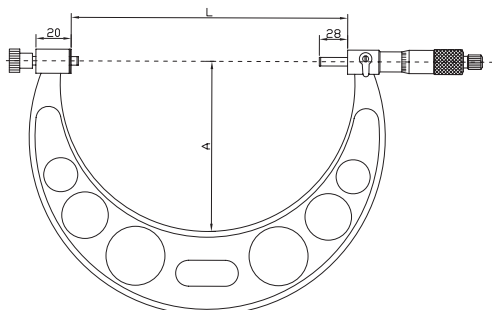
STANDARD ACCESSORIES

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

SPECIFICATIONS

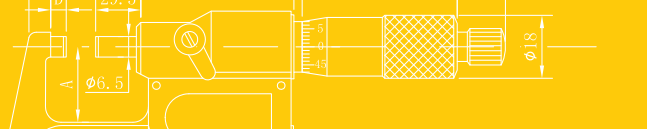
| Inch | | Metric | | Digital models | | | Mechanical models | | | |
|--------|----------|------------|--------|----------------|---------------|-----------------|-------------------|---------------|-----------------|----------|
| Range | Accuracy | Range | Anvils | Standards | Inch Code No. | Metric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

Dimension



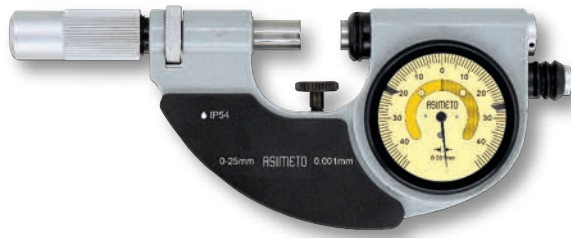
Note: The individual anvils are matched as a set with the frame. The accuracy can not be guaranteed if used with a different frame

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



Dial Snap Gauge

152 Series



152-01-4



Standard

FEATURES

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

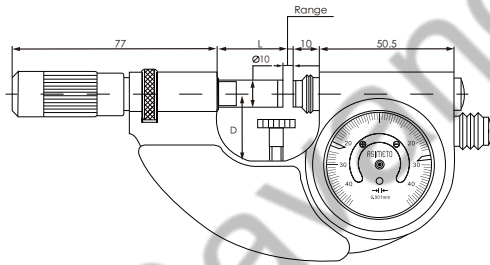
STANDARD ACCESSORIES

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

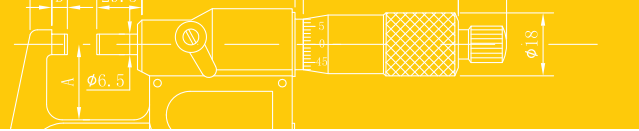
SPECIFICATIONS

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

Dimension



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

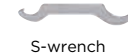


Indicating Micrometers

152 Series



152-01-0



S-wrench



Standard

FEATURES

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

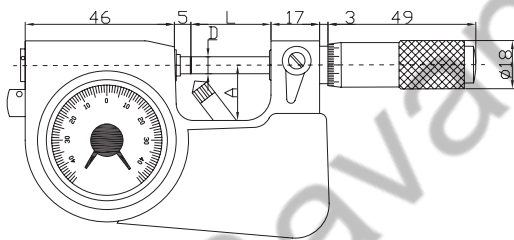
STANDARD ACCESSORIES

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

SPECIFICATIONS

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

Dimension



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

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

208 / 209 Series



208-12-0



209-09-0

FEATURES

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

STANDARD ACCESSORIES

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

SPECIFICATIONS

Digital models

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

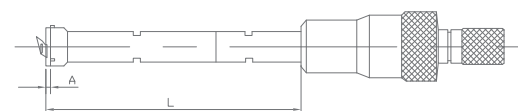
Mechanical models

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

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



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



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

208 / 209 Series



208-28-0



209-26-0

FEATURES

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

STANDARD ACCESSORIES

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

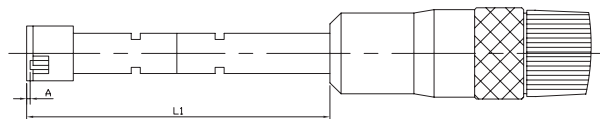
SPECIFICATIONS

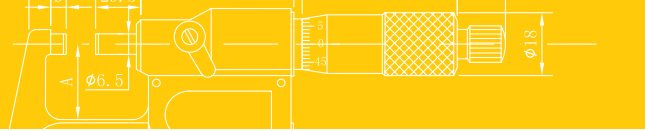
Digital models

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

Mechanical models

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

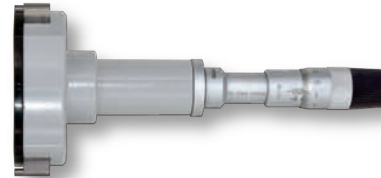




Three-Point Internal Micrometers (100-300mm/4.0-12.0") 208 / 209 Series



208-34-2



209-34-2



FEATURES

- Resolution:
Digital models: .00005" / 0.001mm
Mechanical models: .0002" / 0.005mm
- Protection level IP65
- Ratchet stop
- Measuring contact points are designed to allow measurements near to the bottom of blind holes
- Additional extensions can be added to increase the measuring depth
- Measuring surfaces are carbide
- Setting ring are not included with the set but are optional

STANDARD ACCESSORIES

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

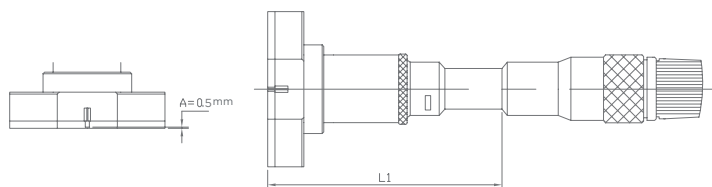
SPECIFICATIONS

Digital models

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

Mechanical models

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





Two and Three Point Internal Micrometers Sets

208 / 209 Series



209-62-8

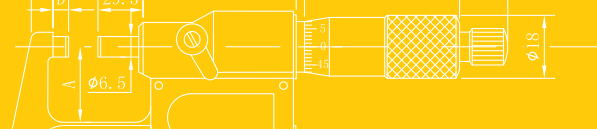
SPECIFICATIONS

Digital models

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

Mechanical models

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



Pistol Grip Bore Gauge (6-100mm)

245 Series



STANDARD ACCESSORIES

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

FEATURES

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

SPECIFICATIONS

| Inch | | | | | | |
|-----------|----------|--------------|-------|------|---------------|----------|
| Range | Accuracy | Setting Ring | L | A | Extension Rod | Code No. |
| .275-.35" | ±.0001" | .0275" | 2" | .06" | 4" | 245-11-1 |
| .35-.425" | ±.0001" | .35" | 2" | .06" | 4" | 245-12-1 |
| .425-.5" | ±.0001" | .5" | 2" | .06" | 4" | 245-13-1 |
| .5-.65" | ±.0001" | .065" | 2.6" | .02" | 6" | 245-24-1 |
| .65-.8" | ±.0001" | .065" | 2.6" | .02" | 6" | 245-25-1 |
| .8-1.0" | ±.0001" | 1.0" | 3.64" | .02" | 6" | 245-26-1 |
| 1.0-1.2" | ±.0002" | 1.0" | 3.64" | .02" | 6" | 245-27-1 |
| 1.2-1.6" | ±.0002" | 1.6" | 3.88" | .02" | 6" | 245-28-1 |
| 1.6-2.0" | ±.0002" | 1.6" | 3.88" | .02" | 6" | 245-29-1 |
| 2.0-2.5" | ±.0002" | 2.5" | 4.48" | .02" | 6" | 245-30-1 |
| 2.5-3.0" | ±.0002" | 2.5" | 4.48" | .02" | 6" | 245-31-1 |
| 3.0-3.5" | ±.0002" | 3.5" | 4.48" | .02" | 6" | 245-32-1 |
| 3.5-4.0" | ±.0002" | 3.5" | 4.48" | .02" | 6" | 245-33-1 |

| Metric | | | | | | |
|----------|----------|--------------|-------|-------|---------------|----------|
| Range | Accuracy | Setting Ring | L | A | Extension Rod | Code No. |
| 6-8mm | 0.004mm | 6mm | 50mm | 1.5mm | 100mm | 245-11-0 |
| 8-10mm | 0.004mm | 8mm | 50mm | 1.5mm | 100mm | 245-12-0 |
| 10-12mm | 0.004mm | 10mm | 50mm | 1.5mm | 100mm | 245-13-0 |
| 12-16mm | 0.004mm | 16mm | 65mm | 0.5mm | 150mm | 245-24-0 |
| 16-20mm | 0.004mm | 16mm | 65mm | 0.5mm | 150mm | 245-25-0 |
| 20-25mm | 0.004mm | 25mm | 91mm | 0.5mm | 150mm | 245-26-0 |
| 25-30mm | 0.004mm | 25mm | 91mm | 0.5mm | 150mm | 245-27-0 |
| 30-40mm | 0.004mm | 40mm | 97mm | 0.5mm | 150mm | 245-28-0 |
| 40-50mm | 0.004mm | 40mm | 97mm | 0.5mm | 150mm | 245-29-0 |
| 50-63mm | 0.005mm | 62mm | 112mm | 0.5mm | 150mm | 245-30-0 |
| 62-75mm | 0.005mm | 62mm | 112mm | 0.5mm | 150mm | 245-31-0 |
| 75-88mm | 0.005mm | 87mm | 112mm | 0.5mm | 150mm | 245-32-0 |
| 87-100mm | 0.005mm | 87mm | 112mm | 0.5mm | 150mm | 245-33-0 |



Pistol Grip Bore Gauge (100-300mm)

245 Series



STANDARD ACCESSORIES

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

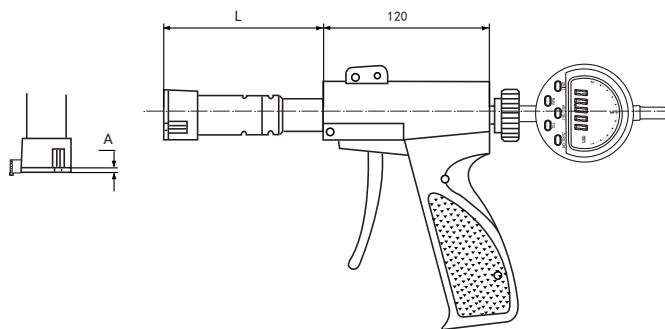
FEATURES

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

SPECIFICATIONS

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

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





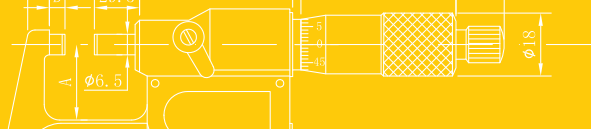
Pistol Grip Bore Gauge Sets

245 Series



SPECIFICATIONS

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



Inside Micrometers

203 / 207 Series



207-01-1



203-02-0

FEATURES

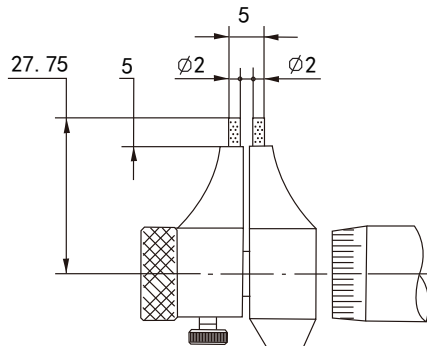
- Resolution:
Digital models: .00005" / 0.001mm
Mechanical models: .001" / 0.01mm
- Designed for the measurement of intricate internal characteristics
- 207 Series has solid carbide pins for measurement contact points
- Satin chrome finished
- .2-1.2" / 5-30mm and 1-2" / 25-50mm range are supplied with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

STANDARD ACCESSORIES

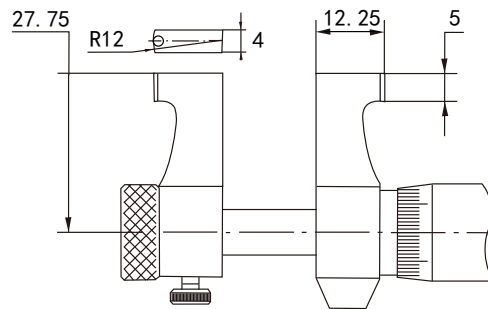
- Battery (Digital models), S-wrench, Setting Ring
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

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



5-30mm



25-50mm

Dual Measurement Inside Micrometers

206 Series

FEATURES

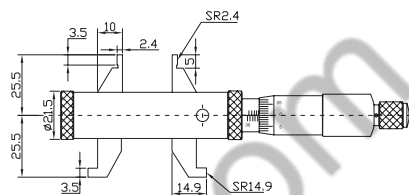
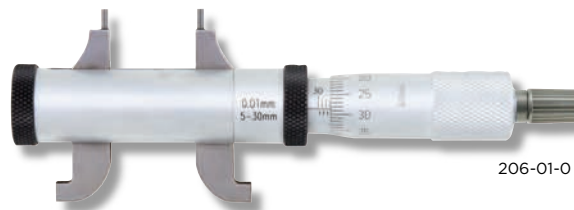
- For all kinds of inside measurements
- Large measuring range with two sides of calipers
- Bi-directional graduation for easy reading in both directions
- Supplied with Setting Ring (Ø1.2" / Ø30mm dia.)

STANDARD ACCESSORIES

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

SPECIFICATIONS

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



Tubular Inside Micrometers

240 Series



240-01-0

SPECIFICATIONS

- Graduation: .001" / 0.01mm
- Accuracy: Metric (3+n+L / 50) μ m
 Inch [0.00005(3+L / 2)]"
 n = number of rod
 L = Maximum measuring Length (mm) (inch)
- Offers a wide range of ID measurements by combining extension rods with the micrometer head
- Supplied with a standard caliper gauge for zero setting
- The combining of Extension Rod provides a wide measuring range
- Carbide measuring faces
- Diameter of Extension Rod: Ø15.5mm

STANDARD ACCESSORIES

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

SPECIFICATIONS

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



Inside Micrometers - Interchangeable Rod Type

242 Series



242-40-1

FEATURES

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

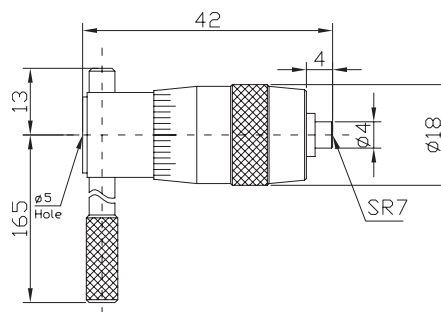
STANDARD ACCESSORIES

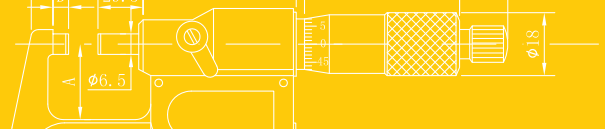
- Micrometer Head, Extension Rod, S-wrench
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

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

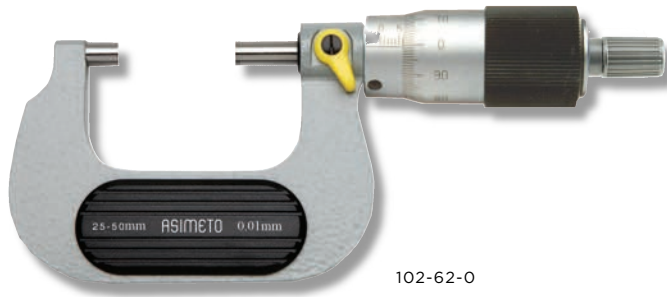
Note: Individual rods are matched with micrometer and should not be interchanged with other sets





Quick-Setting Outside Micrometers, 1mm Rev

102 Series



102-62-0



S-wrench



Standard

FEATURES

- Graduation: 0.01mm
- Flatness: 0.3µm
- 1mm thread pitch for quick setting
- The measurement can be read directly from the thimble due to the 100 step graduation
- Carbide tipped measuring faces
- Ratchet thimble
- Grey painted steel frame

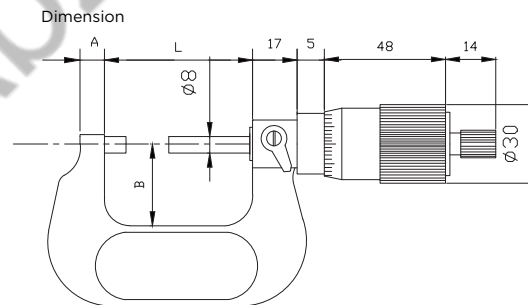
SPECIFICATIONS

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

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

STANDARD ACCESSORIES

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



Micrometer Stands

109 Series

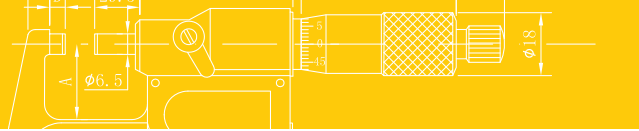
- These stands are designed to allow bench top use with hand micrometers



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



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



Blade Micrometers

117 / 112 Series



117-01-1



112-01-0



S-wrench

Standard

STANDARD ACCESSORIES

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

FEATURES

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

SPECIFICATIONS

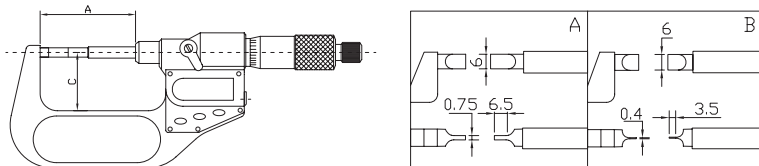
Digital models

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

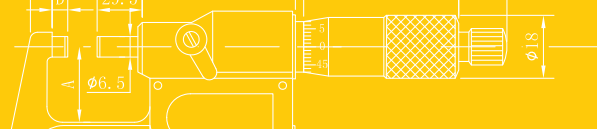
Mechanical models

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

Dimension



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



Multi-Anvil Micrometers

121 / 125 Series



125-01-1



121-01-1

STANDARD ACCESSORIES

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



FEATURES

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

SPECIFICATIONS

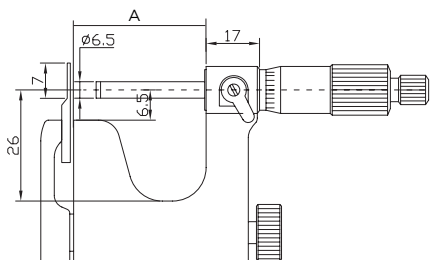
Digital models

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

Mechanical models

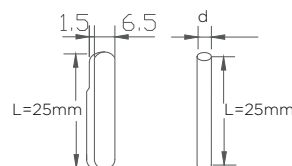
| Inch | | Metric | | Inch | | Metric | |
|-------|----------|--------|----------|----------|----------|----------|----------|
| Range | Accuracy | Range | Accuracy | Code No. | Code No. | Code No. | Code No. |
| 0-1" | ± .0001" | 0-25 | 0.004 | 121-01-1 | 121-01-0 | 121-01-1 | 121-01-0 |
| 1-2" | ± .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 | Ø3mm |
| 25-50mm | 53.5mm | Ø5mm |

Anvils





Point Micrometers

122 / 126 Series



126-02-1



122-01-1



STANDARD ACCESSORIES

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

FEATURES

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

SPECIFICATIONS

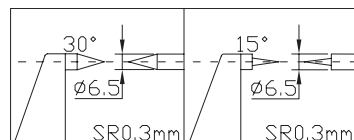
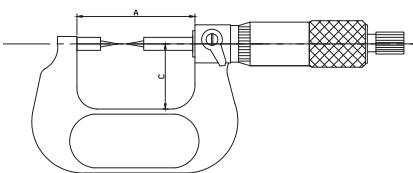
Digital models

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

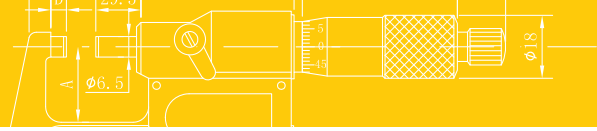
Mechanical models

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

Dimension



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



Single Point Micrometers

131 / 135 Series



135-01-3



131-01-3



STANDARD ACCESSORIES

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

FEATURES

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

SPECIFICATIONS

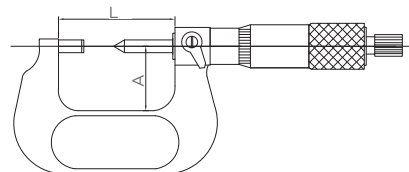
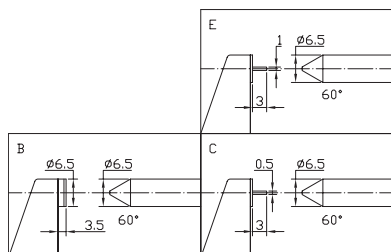
Digital models

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

Mechanical models

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

Dimension



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



Spline Micrometers

118 Series



118-02-1



118-61-1



S-wrench

Standard

STANDARD ACCESSORIES

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

FEATURES

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

SPECIFICATIONS

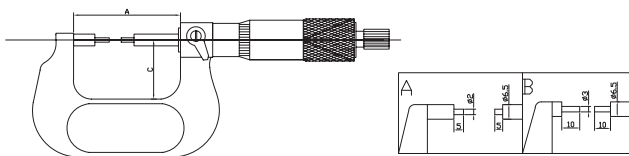
Digital models

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

Mechanical models

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

Dimension



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



Gear Tooth Micrometers

118 / 119 Series



118-31-9



118-71-9



STANDARD ACCESSORIES

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

FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .001" / 0.01mm
- Protection level IP65
- Measures over-pin diameter of gears with precision steel (carbide) ball-tipped measuring faces
- Interchangeable ball anvil-spindle tips for various gear modules (0.6-3.5) are optional
- Set includes 10 pairs Interchangeable anvils
- Grey painted steel frame
- Ratchet stop
- Inch / Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On / Off to maximize battery life
- Absolute or incremental measuring modes

SPECIFICATIONS

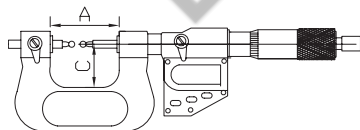
Digital models

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

Mechanical models

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

Dimension



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

Anvils

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



Disc Micrometers

141 / 145 Series



145-02-1



141-03-1



STANDARD ACCESSORIES

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

FEATURES

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

SPECIFICATIONS

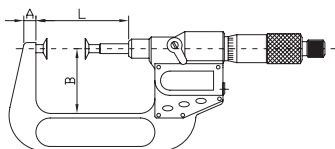
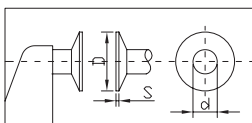
Digital models

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

Mechanical models

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

Dimension



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



Jaw Type Micrometers

122 / 126 Series



126-52-1



122-51-1



S-wrench

Standard

STANDARD ACCESSORIES

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

FEATURES

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

SPECIFICATIONS

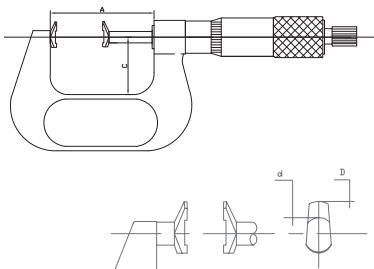
Digital models

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

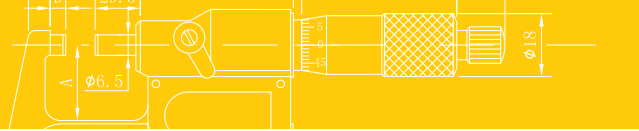
Mechanical models

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

Dimension



| Range | A | C | D | d |
|----------------|-------|------|-----|-----|
| Inch/Metric | mm | mm | mm | mm |
| 0-1"/0-25mm | 34.4 | 24 | R10 | 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 |



V-Anvil Micrometers

151 / 155 Series



155-01-1



151-01-5



S-wrench

Standard

STANDARD ACCESSORIES

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

FEATURES

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

SPECIFICATIONS

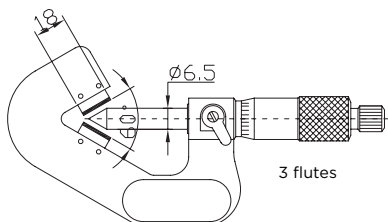
Digital models

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

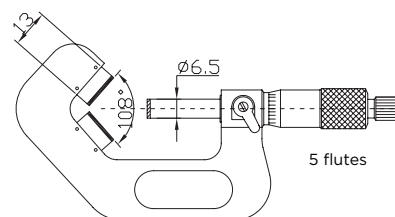
Mechanical models

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

Dimension



3 flutes



5 flutes

Tube Micrometers

143 / 147 Series



147-01-3



143-01-3



STANDARD ACCESSORIES

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

FEATURES

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

SPECIFICATIONS

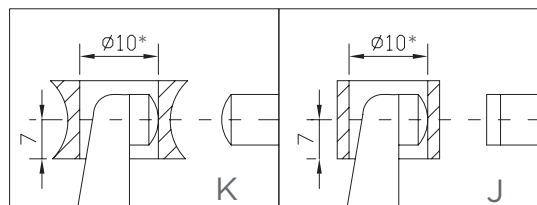
Digital models

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

Mechanical models

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

Dimension



* Min dimension of measured diameter

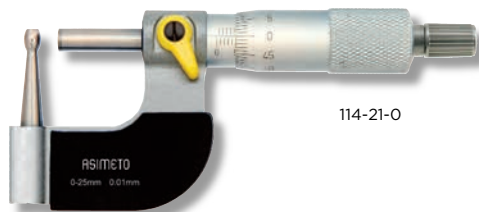


Tube Micrometers

113 / 114 Series



113-01-1



114-21-0



STANDARD ACCESSORIES

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

FEATURES

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

SPECIFICATIONS

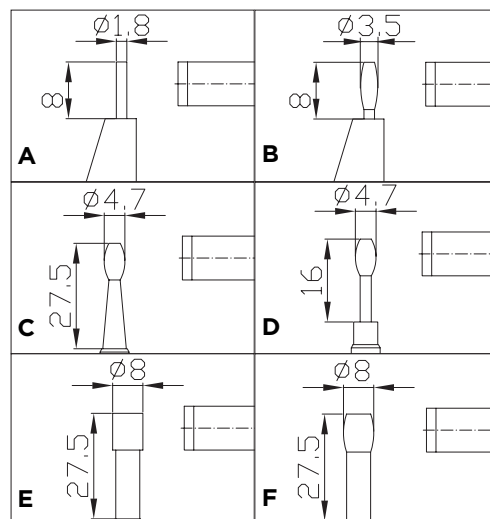
Digital models

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

Mechanical models

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

Dimension



Deep Throat Micrometers

150 / 157 Series



157-51-1



150-51-0



S-wrench

Standard

STANDARD ACCESSORIES

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

FEATURES

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

SPECIFICATIONS

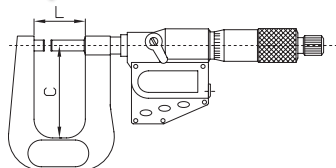
Digital models

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

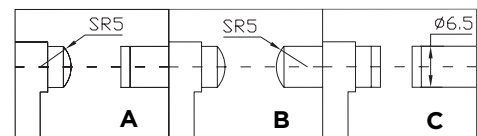
Mechanical models

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

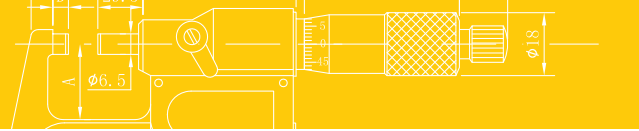
Dimension



Anvils



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



Limit Micrometers

133 Series



133-31-1

FEATURES

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

STANDARD ACCESSORIES

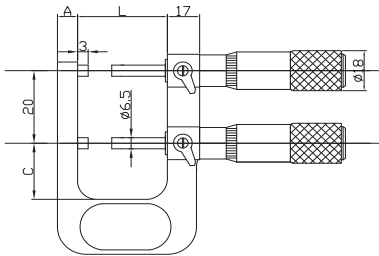
- S-wrench, Standard (25-50mm range)
- Warranty card, Instruction manual, Calibration certificate



SPECIFICATIONS

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

Dimension



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

Wire Micrometers

161 Series



161-01-0



S-wrench

FEATURES

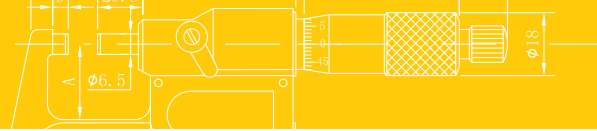
- Graduation: .001" / 0.01mm
- Chrome-plated steel feet Frame
- Carbide tipped measuring faces
- For measuring the diameter of wire and small spheres
- Ratchet stop

STANDARD ACCESSORIES

- S-wrench
- Warranty card, Calibration certificate

SPECIFICATIONS

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



Sheet Metal Micrometers

158 Series



158-51-1

FEATURES

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

STANDARD ACCESSORIES

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

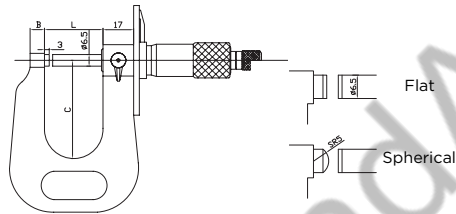


S-wrench

SPECIFICATIONS

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

Dimension



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

Hub Micrometers

160 Series



160-01-0

FEATURES

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

STANDARD ACCESSORIES

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



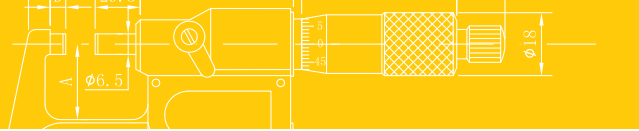
S-wrench



Standard

SPECIFICATIONS

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



Groove Micrometers

163 Series



163-01-0



163-02-2



163-61-0



163-62-2

FEATURES

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

STANDARD ACCESSORIES

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

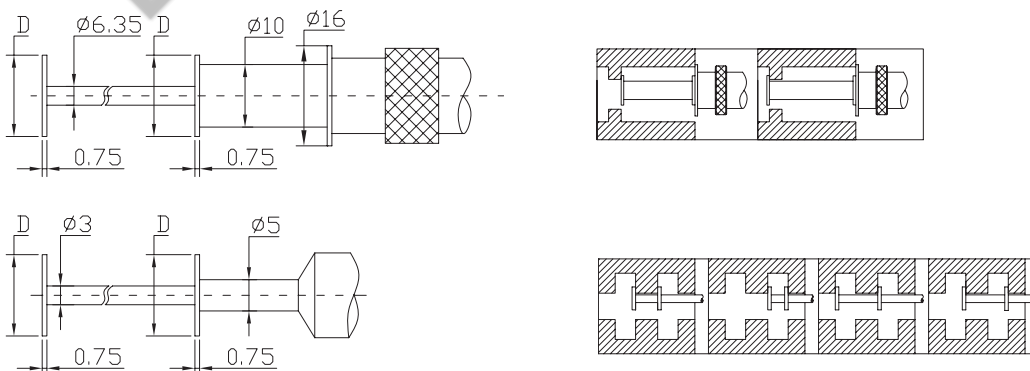


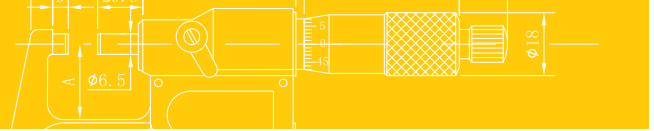
S-wrench

SPECIFICATIONS

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

Dimension





Snap Gauges

181 Series



181-01-0

FEATURES

- Grey painted steel frame
- Carbide tipped measuring faces
- Dial gauge is not included and is optional, refer to 422-21-1 or 422-21-2
(The measuring resolution is indicative of the dial gauge)
- 8mm diameter stem dial gauge
- Suitable for quickly measuring dimensions of mass-produced work pieces
- Type A and type B measuring anvil configurations are available

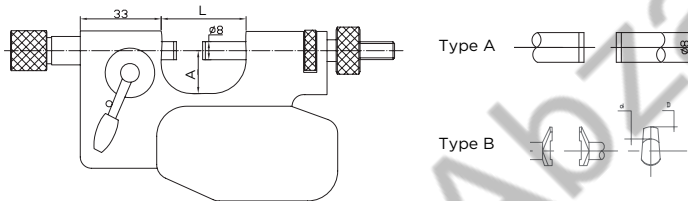
STANDARD ACCESSORIES

- Warranty card, Instruction manual

SPECIFICATIONS

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

Dimension



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

Snap Gauges

182 Series



182-01-1

FEATURES

- Grey painted steel frame
- Dial gauge is not included and is optional (The measuring resolution is indicative of the dial gauge)
Refer to 405-95-4 or 405-95-5
- 8mm diameter stem dial gauge
- Suitable for quickly measuring dimensions of mass-produced work pieces
- The measuring anvils are designed with a angle to allow for easy insertion of the work piece
- Dimension of measuring face: 14x11mm

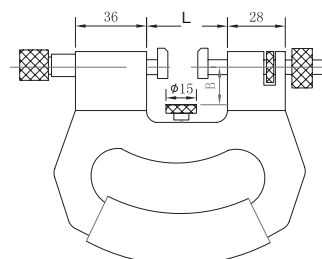
STANDARD ACCESSORIES

- Warranty card, Instruction manual

SPECIFICATIONS

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

Dimension



Can Seam Micrometers

162 Series



162-01-0



162-01-2



162-01-4

FEATURES

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

STANDARD ACCESSORIES

- S-wrench
- Warranty card, Calibration certificate



S-wrench

SPECIFICATIONS

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

Digital Micrometer Heads

165 Series



165-01-1

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

STANDARD ACCESSORIES

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

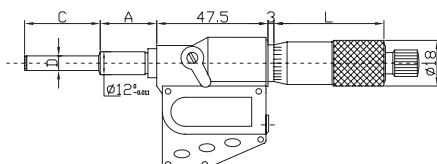


S-wrench

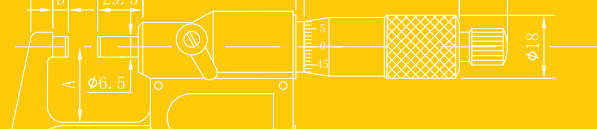
SPECIFICATIONS

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

Dimension



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



Micrometer Heads

169 Series



169-05-7



169-05-0

FEATURES

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

STANDARD ACCESSORIES

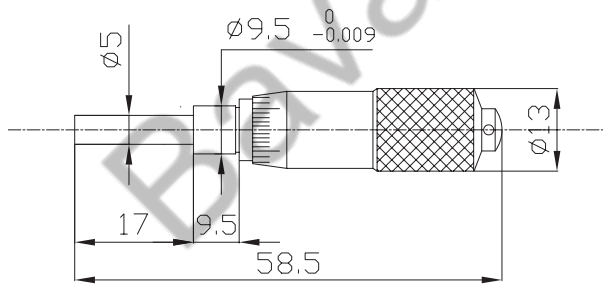
- S-wrench
- Warranty card, Instruction manual
- Calibration certificate

SPECIFICATIONS

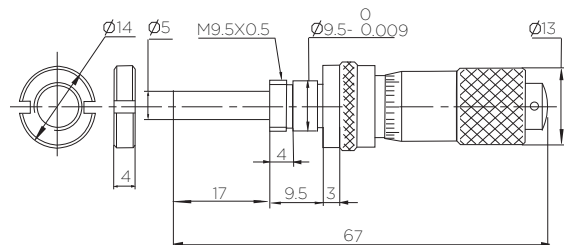
| Inch | | | | Metric | | | | | | Inch | | Metric | |
|-------|----------|------------|--------------|--------|----------|------------|--------------|--------------|----------------|-----------|----------|----------|--|
| Range | Accuracy | Graduation | Spindle Dia. | Range | Accuracy | Graduation |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

Dimension

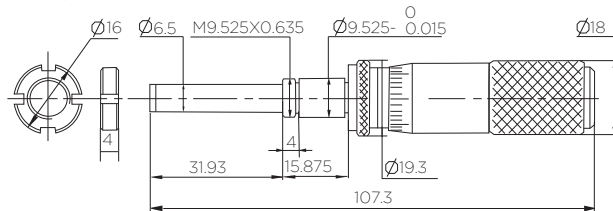
169-05-0



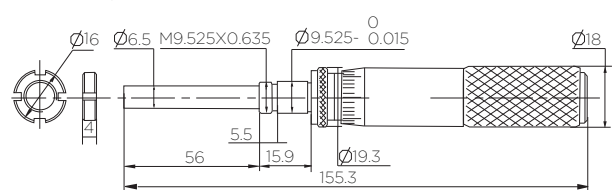
169-05-2/3



169-92-2/3



169-93-2/3





Micrometer Heads

169 Series



169-82-0



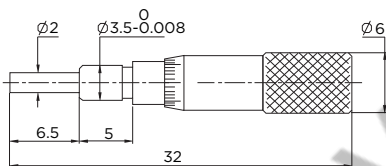
169-75-4

SPECIFICATIONS

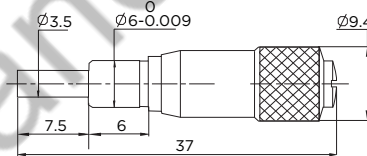
| Inch | | | | Metric | | | | | | Inch | | Metric | |
|--------|----------|------------|--------------|---------|----------|------------|--------------|--------------|---------------------|-----------|----------|----------|--|
| Range | Accuracy | Graduation | Spindle Dia. | Range | Accuracy | Graduation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

Dimension

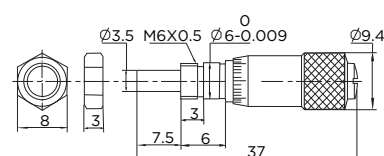
169-82-0/1



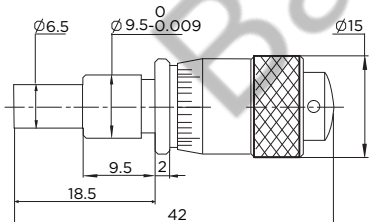
169-65-0/1



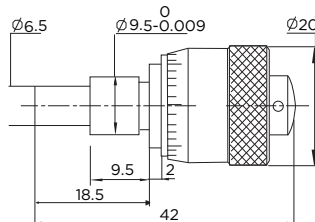
169-65-4/5



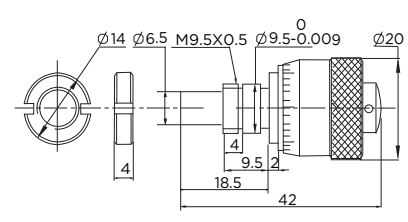
169-85-0/1



169-75-0/1



169-75-4/5

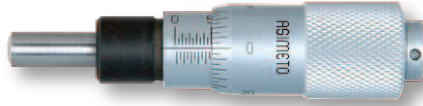


Micrometer Heads

169 Series



169-13-0



169-33-2



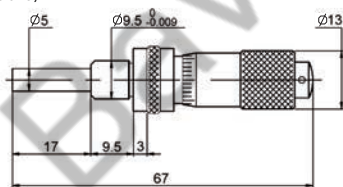
169-45-2

SPECIFICATIONS

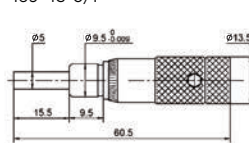
| Inch | | | | Metric | | | | | | | | Inch | Metric |
|-------|----------|------------|--------------|--------|----------|------------|--------------|--------------|---------------------|-----------|----------|----------|--------|
| Range | Accuracy | Graduation | Spindle Dia. | Range | Accuracy | Graduation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

Dimension

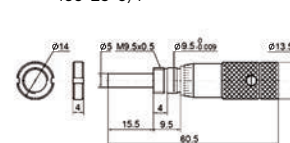
169-06-0/1



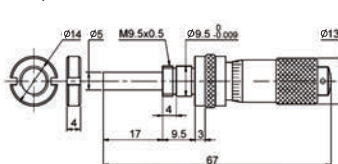
169-45-0/1



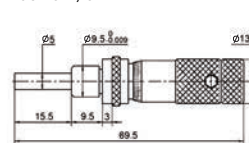
169-23-0/1



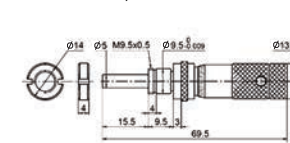
169-06-4/5



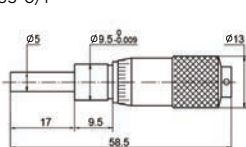
169-13-2/3



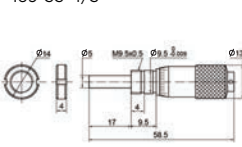
169-23-2/3



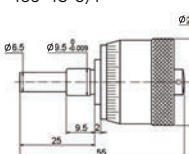
169-33-0/1



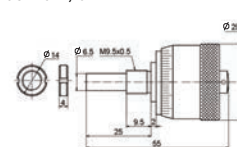
169-33-4/5



169-45-0/1

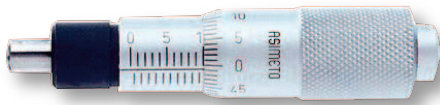


169-45-4/5



Micrometer Heads

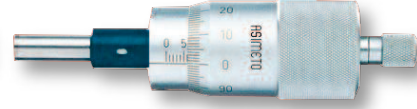
169 Series



169-15-2



169-35-0

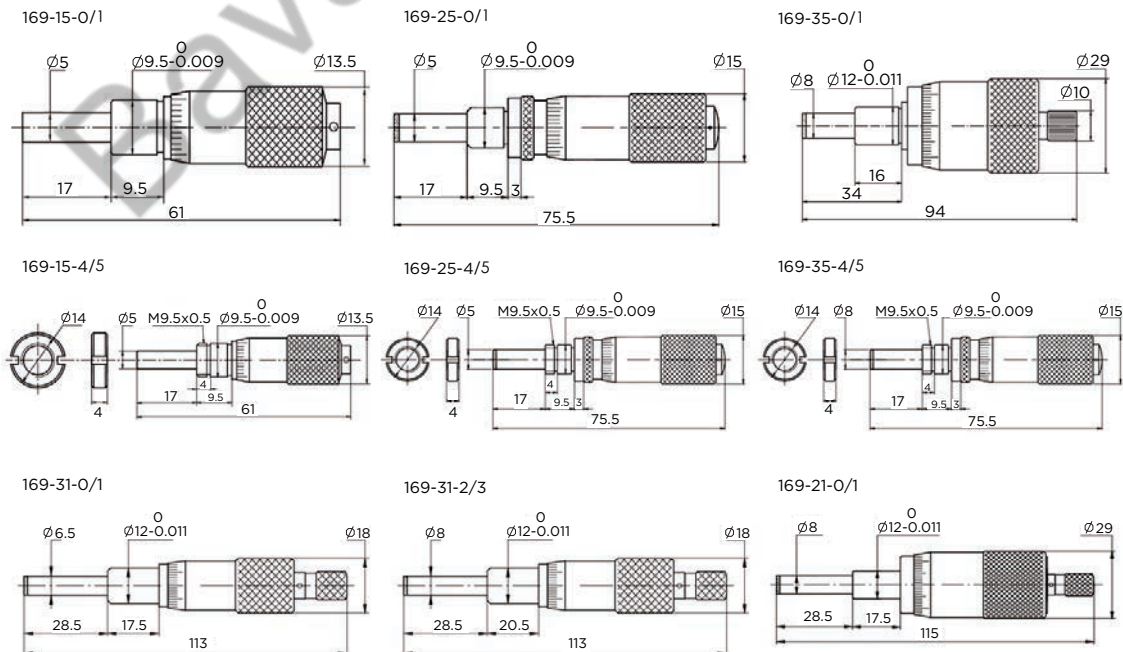


169-21-0

SPECIFICATIONS

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

Dimension



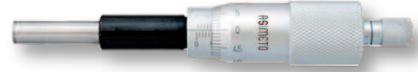


Micrometer Heads

169 Series



169-11-2



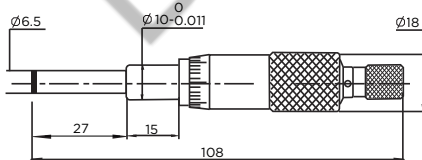
169-51-0

SPECIFICATIONS

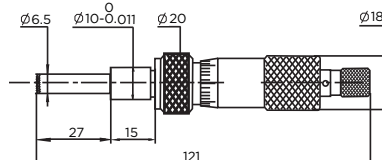
| Inch | | | | Metric | | | | | | Inch | | Metric | |
|-------|----------|------------|--------------|--------|----------|------------|--------------|--------------|---------------------|-----------|----------|----------|--|
| Range | Accuracy | Graduation | Spindle Dia. | Range | Accuracy | Graduation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

Dimension

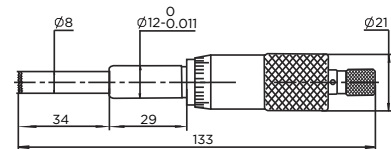
169-11-2/3



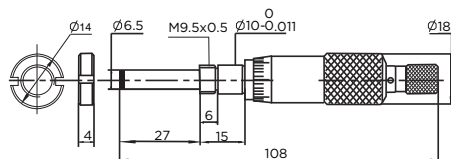
169-41-0/1



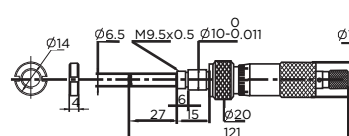
169-51-0/1



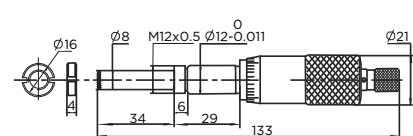
169-01-2/3



169-42-0/1

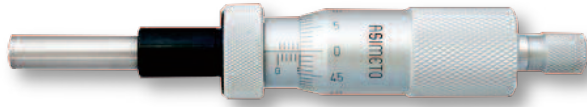


169-51-4/5

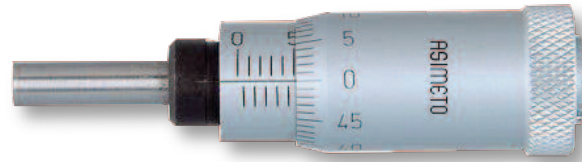


Micrometer Heads

169 Series



169-55-0



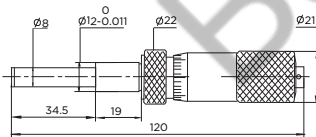
169-91-0

SPECIFICATIONS

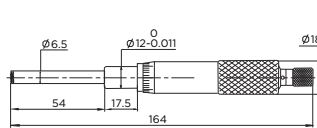
| Inch | | | | Metric | | | | Inch | | | | Metric | |
|-------|----------|------------|--------------|--------|----------|------------|--------------|--------------|---------------------|-----------|------------------|------------------|--|
| Range | Accuracy | Graduation | Spindle Dia. | Range | Accuracy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

Dimension

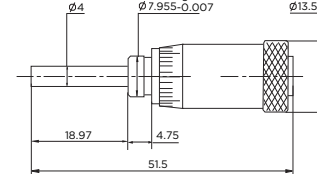
169-55-0/1



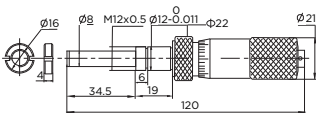
169-81-0/1



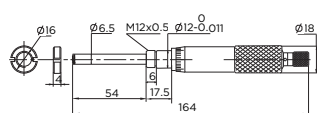
169-91-0/1



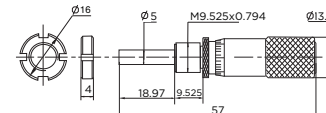
169-55-4/5

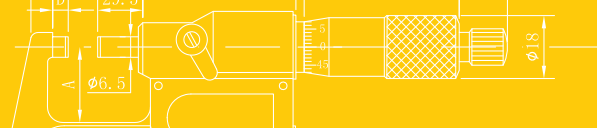


169-81-4/5



169-91-2/3



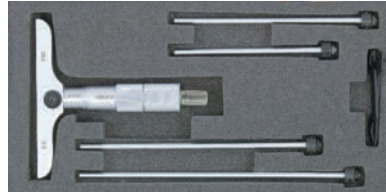


Depth Micrometers

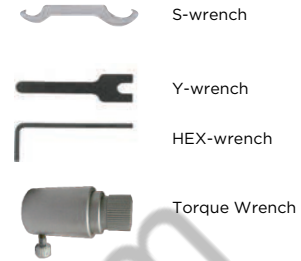
201 / 205 Series



205-04-3



201-04-3



FEATURES

- Resolution
Digital models: .00005" / 0.001mm
Mechanical models: .001" / 0.01mm
- Micrometers head accuracy: (0-25mm / 0-1")
Metric: $\pm 0.003\text{mm}$
Inch: $\pm 0.0001"$
- Measuring inserts accuracy:
Metric: $\pm(2+L/75)\ \mu\text{m}$
Inch: $\pm[0.001+0.0005(L/3)]"$
L = Maximum measuring Length (mm) (inch)
- Protection level IP65
- Ratchet stop
- The integrity of the measurements are maintained throughout the total range of the measuring rods. However the measuring rods must be kept as a set and may not be interchangeable with other depth micrometers sets
- Both flat and spherical depth rod sets are available
- The measurement mode of Absolute or Incremental is displayed when turned on
- The battery life is maximized with the automatic On/Off feature
- Inch/Metric conversion

STANDARD ACCESSORIES

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

SPECIFICATIONS

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



Micrometer Standards

110 Series

FEATURES

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



110-11-1



110-08-1



110-06-1

SPECIFICATIONS

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



ASIMETO

25

0 0 10 20

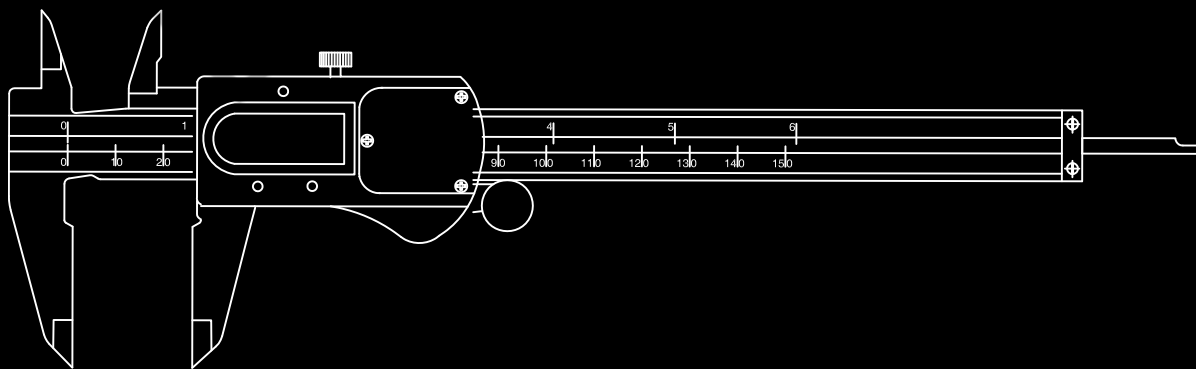
mm in ON OFF 0 ABS ORIGIN

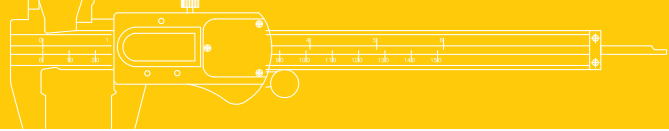
ASIMETO

100 110 1

Calipers

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





IP67 Digital Calipers _ SYLVAC SYSTEM

301 Series



301-06-0

FEATURES

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

STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

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

IP67 Digital Calipers

305 Series



305-06-2



FEATURES

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

STANDARD ACCESSORIES

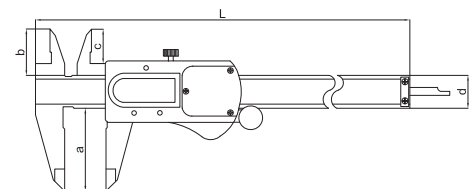
- Battery, Screwdriver
- Warranty card, Instruction manual, Calibration certificate

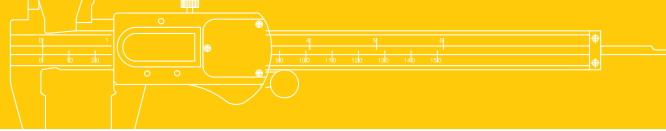
SPECIFICATIONS

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

Dimension

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





IP67 Big Screen Digital Caliper

305 Series



305-06-5

FEATURES

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

SPECIFICATIONS

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

STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

Big Screen Digital Caliper

306 Series



306-06-5

306-06-3

FEATURES

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

SPECIFICATIONS

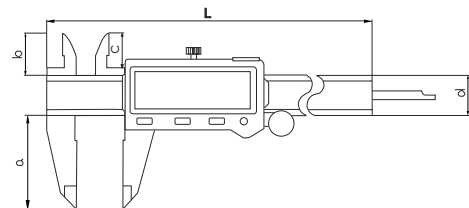
| Inch | | Metric | | With Thumb Wheel | W/O Thumb Wheel |
|-------------------------|----------|---------|----------|------------------|-----------------|
| Range | Accuracy | Range | Accuracy | Code No. | Code No. |
| Incremental Type | | | | | |
| 0-6" | ± .001" | 0-150mm | ± 0.02mm | 306-06-5 | 306-06-6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

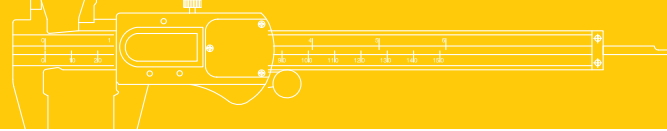
STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

Dimension

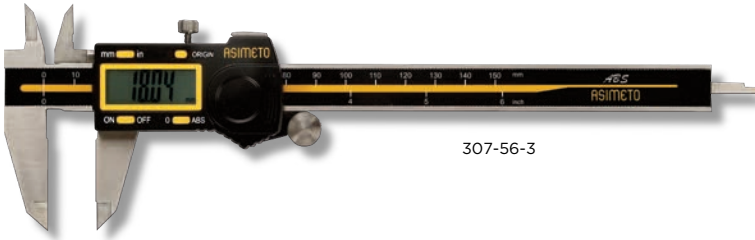
| Range | L | a | b | c | d |
|---------------|-----|----|----|------|----|
| Inch/Metric | mm | mm | mm | mm | mm |
| 0-6"/0-150mm | 236 | 40 | 21 | 16.5 | 16 |
| 0-8"/0-200mm | 286 | 50 | 24 | 19.5 | 16 |
| 0-12"/0-300mm | 400 | 60 | 25 | 20.5 | 16 |





Absolute Digital Calipers

307 Series



307-56-3

SPECIFICATIONS

| Inch | Metric | With Thumb Wheel | W/O Thumb Wheel | | |
|-------|----------|------------------|-----------------|-----------------|-----------------|
| Range | Accuracy | Range | Accuracy | Code No. | Code No. |
| 0-6" | ± .001" | 0-150mm | ± 0.02mm | 307-56-3 | 307-56-2 |
| 0-8" | ± .0015" | 0-200mm | ± 0.03mm | 307-58-3 | 307-58-2 |
| 0-12" | ± .0015" | 0-300mm | ± 0.03mm | 307-62-3 | 307-62-2 |

Dimension

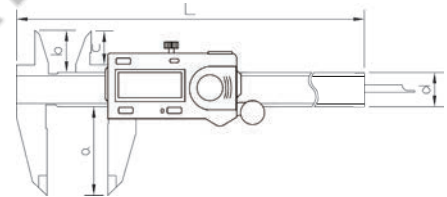
| Range | L | a | b | c | d |
|---------------|-----|----|----|------|----|
| Inch/Metric | mm | mm | mm | mm | mm |
| 0-6"/0-150mm | 236 | 40 | 21 | 16.5 | 16 |
| 0-8"/0-200mm | 286 | 50 | 24 | 19.5 | 16 |
| 0-12"/0-300mm | 400 | 60 | 25 | 20.5 | 16 |

FEATURES

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

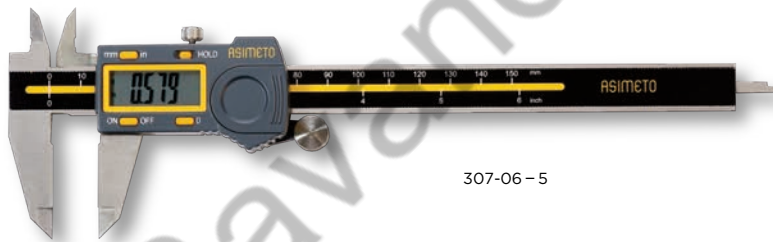
STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate



Digital Calipers (Four Buttons)

307 Series



307-06-5

SPECIFICATIONS

| Inch | Metric | With Thumb Wheel | W/O Thumb Wheel | | |
|-------|----------|------------------|-----------------|-----------------|-----------------|
| Range | Accuracy | Range | Accuracy | Code No. | Code No. |
| 0-4" | ± .001" | 0-100mm | ± 0.02mm | 307-04-5 | 307-04-4 |
| 0-6" | ± .001" | 0-150mm | ± 0.02mm | 307-06-5 | 307-06-4 |
| 0-8" | ± .0015" | 0-200mm | ± 0.03mm | 307-08-5 | 307-08-4 |
| 0-12" | ± .0015" | 0-300mm | ± 0.03mm | 307-12-5 | 307-12-4 |

Dimension

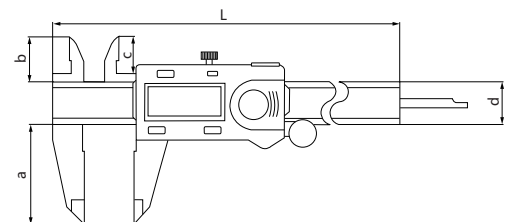
| Range | L | a | b | c | d |
|---------------|-----|----|----|------|----|
| Inch/Metric | mm | mm | mm | mm | mm |
| 0-4"/0-100mm | 186 | 40 | 21 | 16.5 | 16 |
| 0-6"/0-150mm | 236 | 40 | 21 | 16.5 | 16 |
| 0-8"/0-200mm | 286 | 50 | 24 | 19.5 | 16 |
| 0-12"/0-300mm | 400 | 60 | 25 | 20.5 | 16 |

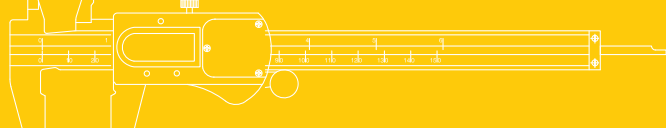
FEATURES

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

STANDARD ACCESSORIES

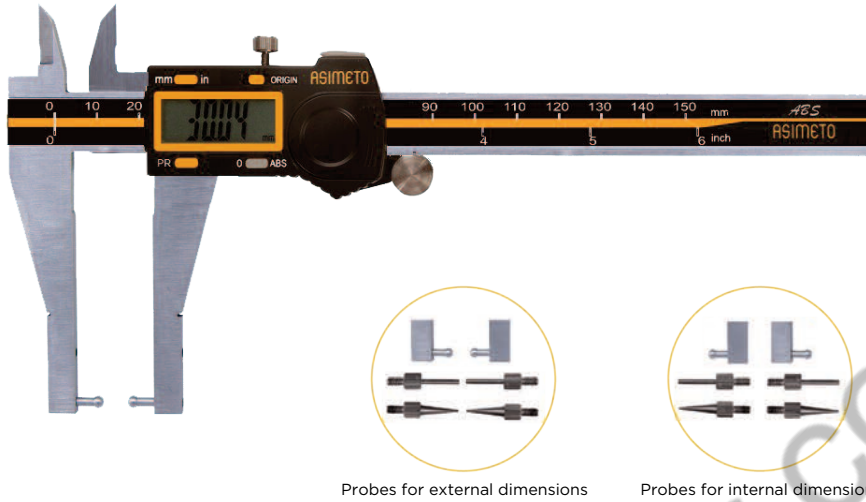
- Battery
- Warranty card, Instruction manual, Calibration certificate





Multi-function Digital Calipers

318 Series



Probes for external dimensions

Probes for internal dimensions

FEATURES

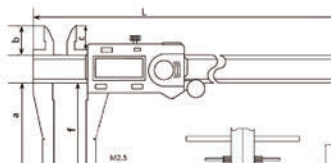
- Resolution: .0005" / 0.01mm
- ABS system delivery reliable measurement With preset value function, the initial value can be set arbitrarily
- Zero-setting at any position for incremental measurement
- Inch/Metric conversion
- With three shape probes
- Cable data output: 900-05-4 / 5
- Wireless data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

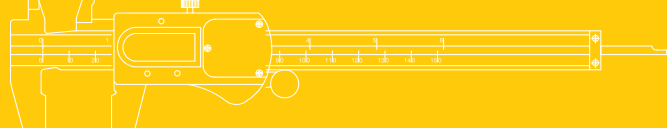
SPECIFICATIONS

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

Dimension

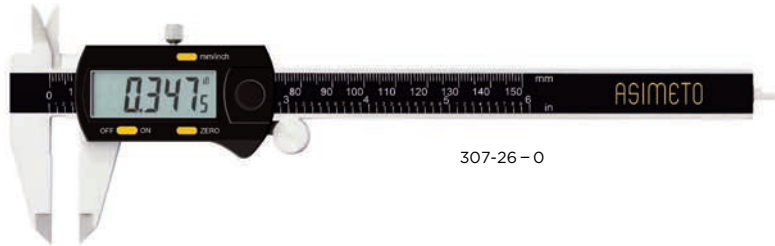
| Range | L | a | b | c | d | e | f |
|---------------|-----|------|-------|----|----|-----|------|
| Inch/Metric | mm | mm | mm | mm | mm | mm | mm |
| 0-6"/0-150mm | 235 | 67.2 | 22.55 | 18 | 16 | 7.5 | 64.2 |
| 0-8"/0-200mm | 287 | 67.2 | 22.55 | 18 | 16 | 7.5 | 64.2 |
| 0-12"/0-300mm | 390 | 67.2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





Digital Calipers (Three Buttons)

307 Series



307-26-0

FEATURES

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

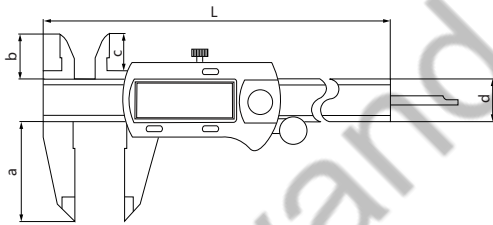
STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

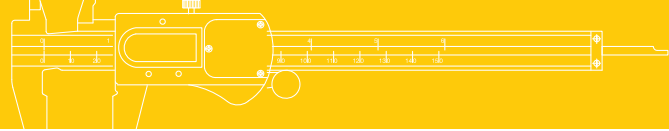
SPECIFICATIONS

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

Dimension



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



ABS Heavy Duty Digital Calipers

315 Series



315-12-6



315-12-8

FEATURES

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

STANDARD ACCESSORIES

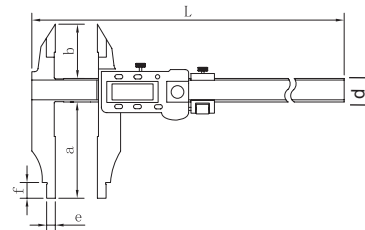
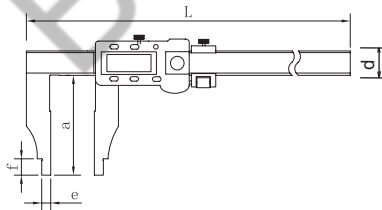
- Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

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

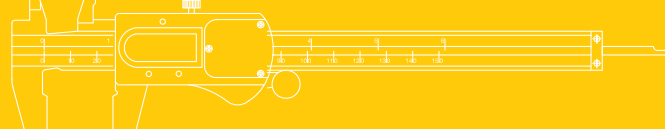
Remark: Special Jaw Length are upon requested

Dimension



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

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



Ultra Light Heavy Duty Digital Calipers _SYLVAC SYSTEM 312 Series



312-20-4

FEATURES

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

STANDARD ACCESSORIES

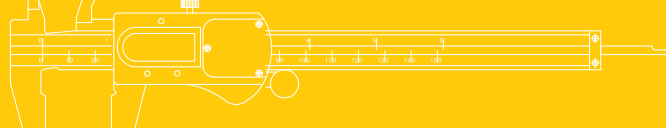
- Battery
- Warranty card, Instruction manual, Calibration certificate



312-12-0

SPECIFICATIONS

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



Ultra Light Digital Universal Depth Gauges _SYLVAC SYSTEM 312 Series



FEATURES

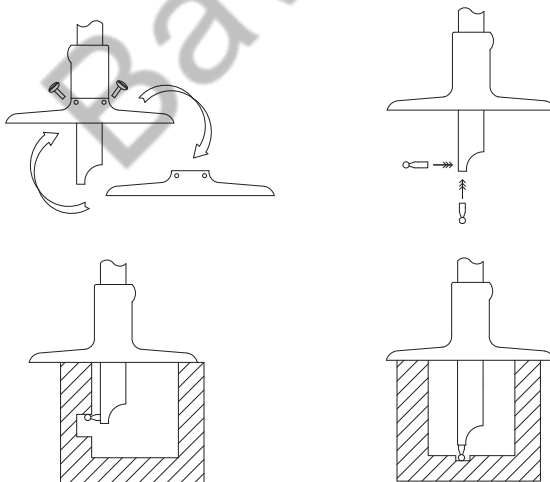
- Resolution: .0005" / 0.01mm
- Lightweight design
- Easy to read display. Optimum sliding characteristics are ensured by double Vee guides. Measurement head of hard-coated Aluminium with two tapped holes at 90° (M2.5) to take the measuring tips.
- Inch / Metric conversion
- Power: LR44 1.5V Battery

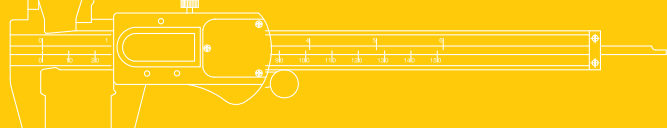
STANDARD ACCESSORIES

- Battery, Base (Each one of 150mm, 300mm, 450mm), Φ2mm Contact Point
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

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





ABS Digital Calipers for Outside/Inside Grooves

309 Series



309-06-3



309-06-4

FEATURES

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

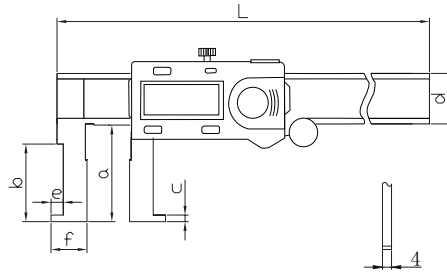
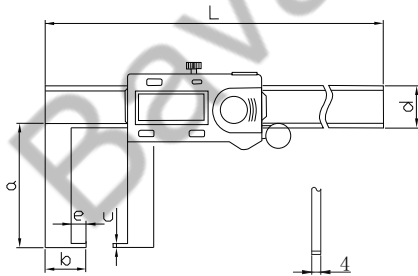
STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

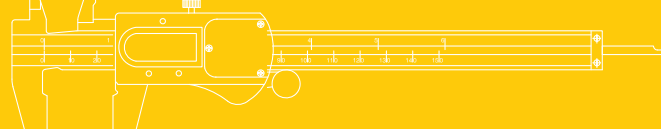
| Inch | | | Metric | | | Code No. |
|-----------------------|------------|----------|----------|------------|----------|-----------------|
| Range | Resolution | Accuracy | Range | Resolution | Accuracy | |
| Outside groove | | | | | | |
| 0-6" | .0005" | ± .001" | 0-150mm | 0.01mm | ± 0.03mm | 309-06-3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

Dimension



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

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

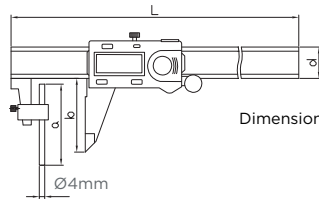


ABS Digital Tube Calipers

316 Series



316-06-2



Dimension

SPECIFICATIONS

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

FEATURES

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

STANDARD ACCESSORIES

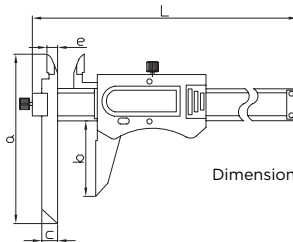
- Battery
- Warranty card, Instruction manual, Calibration certificate

Digital Calipers With Adjustable Measuring Jaw

317 Series



317-06-2



Dimension

SPECIFICATIONS

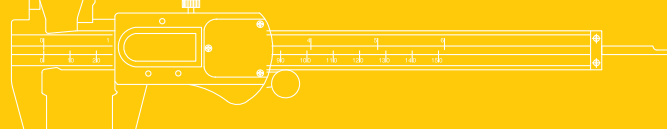
| Inch | | Metric | | L | a | b | c | d | e | |
|-------|----------|---------|----------|-----|-----|----|----|----|----|-----------------|
| Range | Accuracy | Range | Accuracy | mm | mm | mm | mm | mm | mm | Code No. |
| 0-6" | ± .0015" | 0-150mm | ± 0.03mm | 239 | 110 | 40 | 10 | 16 | 7 | 317-06-2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

FEATURES

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

STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

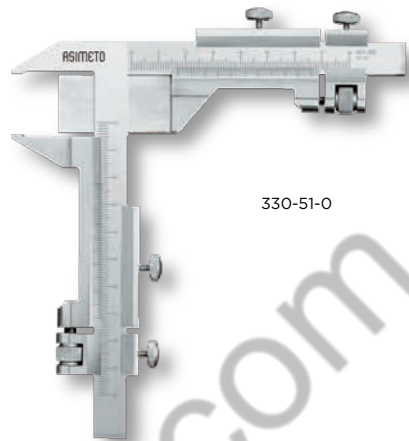


Gear Tooth Calipers

328 / 330 Series



328-06-0



330-51-0

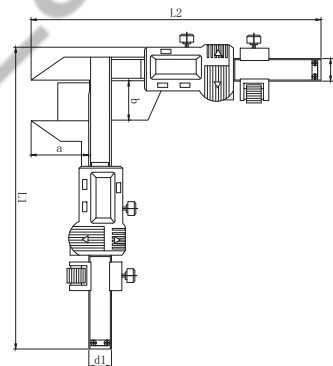
FEATURES

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

STANDARD ACCESSORIES

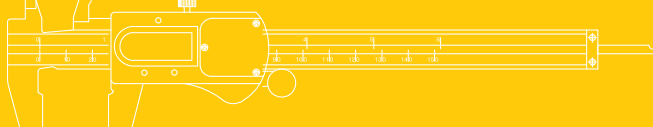
- Battery
- Warranty card, Instruction manual, Calibration certificate

Dimension



SPECIFICATIONS

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



Digital Thickness Gauges

325 Series



325-32-0



325-30-0



325-50-0

FEATURES

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

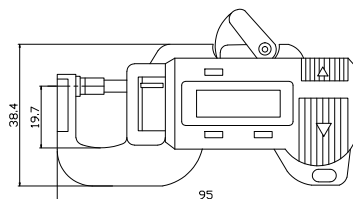
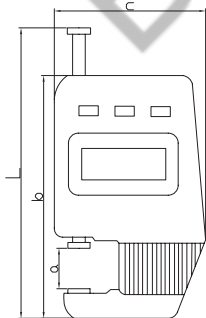
STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

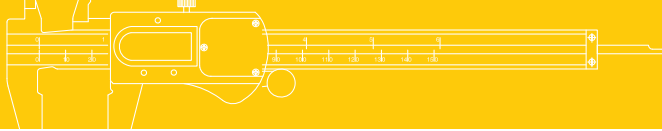
SPECIFICATIONS

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

Dimension



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

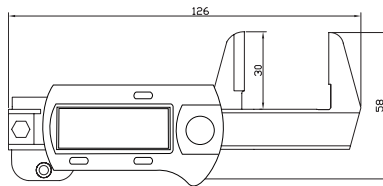


Digital Gauge With Single Wide Measuring Face

325 Series



325-36-2



Dimension

FEATURES

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

STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

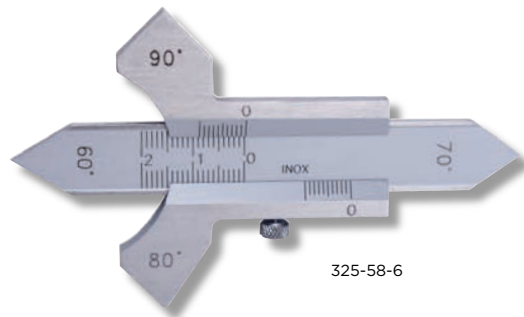
| Inch | | Metric | | Code No. |
|--------|----------|--------|----------|-----------------|
| Range | Accuracy | Range | Accuracy | |
| 0-1.2" | .0015" | 0-30mm | ±0.03mm | 325-36-2 |

Welding Fillet Gauges

325 Series



325-05-6



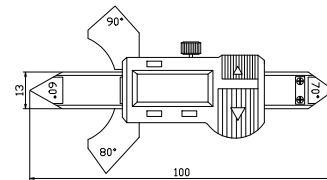
325-58-6

FEATURES

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

STANDARD ACCESSORIES

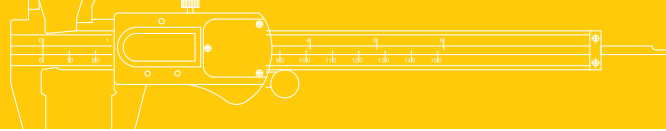
- Battery (Digital models)
- Warranty card, Instruction manual



Dimension

SPECIFICATIONS

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

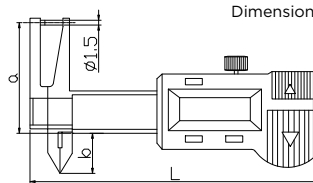


Mini-type 3-purpose Digital Calipers

305 Series



305-40-0



FEATURES

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

STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

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

Hook Type Digital Calipers

325 Series



325-05-0

FEATURES

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

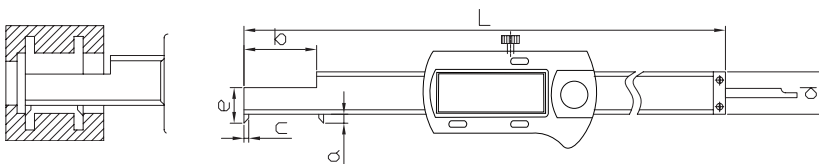
STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual, Calibration certificate

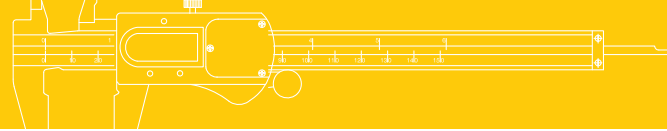
SPECIFICATIONS

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

Dimension



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



Digital Scales

326 Series

FEATURES

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



326-06-9

STANDARD ACCESSORIES

- Battery
- Warranty card, Instruction manual

SPECIFICATIONS

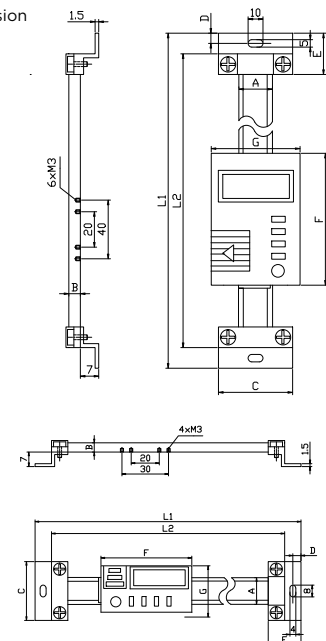
| Inch | | Metric | | Horizontal | Vertical |
|-------|----------|--------|----------|------------|----------|
| Range | Accuracy | Range | Accuracy | Code No. | Code No. |
| 4" | ± .001" | 100mm | ± 0.02mm | 326-04-9 | 326-04-8 |
| 6" | ± .0015" | 150mm | ± 0.02mm | 326-06-9 | 326-06-8 |
| 8" | ± .0015"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

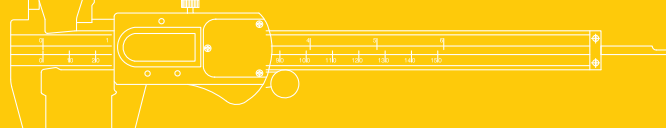


326-06-8

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

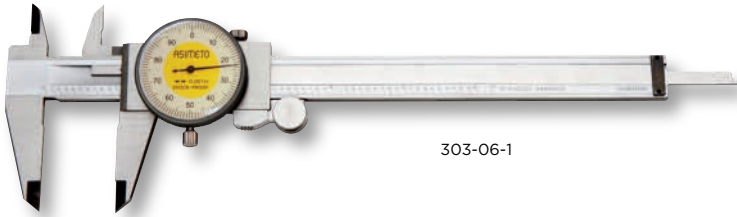
Dimension



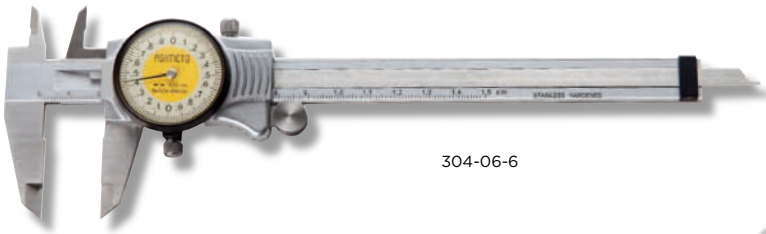


Dial Calipers

303 / 304 Series



303-06-1



304-06-6

FEATURES

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

Aluminum models

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

STANDARD ACCESSORIES

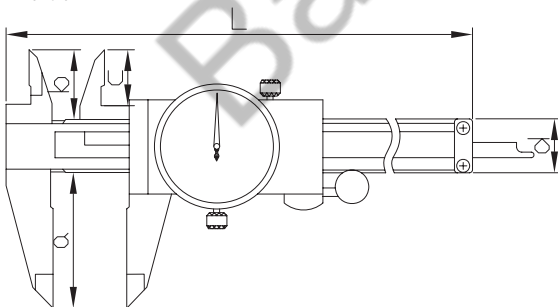
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

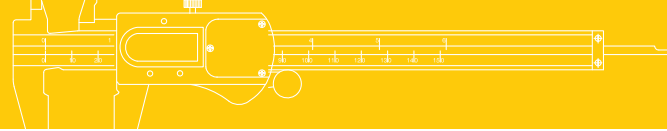
| Inch | | |
|-------------------------------------|----------|-----------------|
| Range | Accuracy | Code No. |
| Standard models | | |
| 0-6" | ± .001" | 303-06-1 |
| 0-8" | ± .0015" | 303-08-1 |
| 0-12" | ± .0015" | 303-12-1 |
| Aluminum dial housing models | | |
| 0-6" | ± .001" | 304-06-5 |
| 0-8"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

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

Dimension



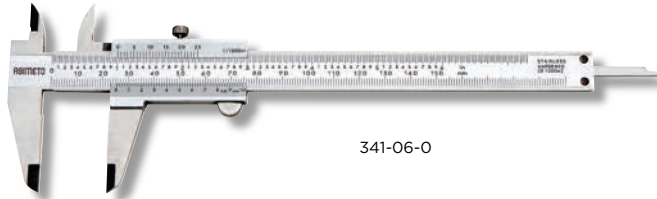
| Range | L | a | b | c | d |
|---------------|-----|----|------|----|----|
| Inch/Metric | mm | mm | mm | mm | mm |
| 0-6"/0-150mm | 234 | 40 | 21 | 16 | 16 |
| 0-8"/0-200mm | 290 | 50 | 23.5 | 16 | 17 |
| 0-12"/0-300mm | 393 | 64 | 24.5 | 20 | 17 |



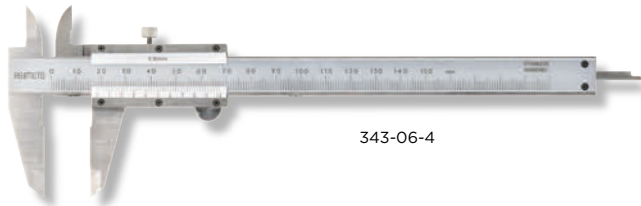
Vernier Calipers

341 / 343 Series

Plain



341-06-0



343-06-4

FEATURES

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

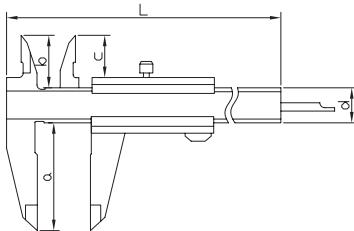
STANDARD ACCESSORIES

- Warranty card, Instruction manual, Calibration certificate

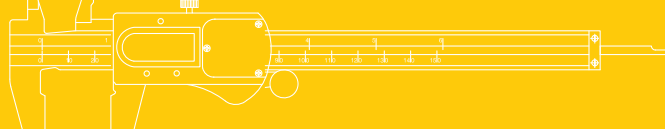
SPECIFICATIONS

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

Dimension



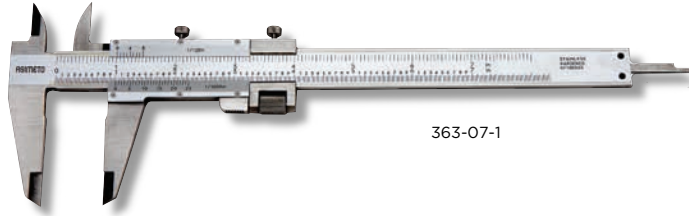
| Range | L | a | b | c | d |
|---------------|-----|----|------|------|----|
| Inch/Metric | mm | mm | mm | mm | mm |
| 0-4"/0-100mm | 175 | 25 | 19 | 13.5 | 16 |
| 0-6"/0-150mm | 235 | 40 | 21 | 16.5 | 16 |
| 0-8"/0-200mm | 297 | 50 | 23.5 | 19 | 16 |
| 0-12"/0-300mm | 410 | 64 | 27 | 22 | 18 |



Vernier Calipers

363 Series

Fine adjustment

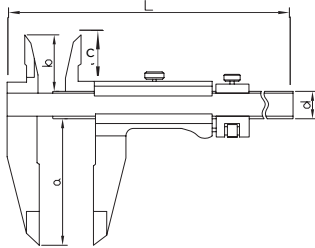


363-07-1

SPECIFICATIONS

| Range | Graduation | Range | Graduation | Accuracy | Open Block |
|---------------|------------|-------|------------|----------|------------|
| Lower | Lower | Upper | Upper | | Note |
| Inch | | | | | |
| 0-5" | .001" | 0-5" | 1/128" | ± .001" | upper lock |
| 0-7" | .001" | 0-7" | 1/128" | ± .0015" | upper lock |
| 0-11" | .001" | 0-11" | 1/128" | ± .0015" | upper lock |
| Metric | | | | | |
| 0-130mm | 0.02mm | 0-5" | 0.001" | ± 0.03mm | upper lock |
| 0-180mm | 0.02mm | 0-7" | 0.001" | ± 0.03mm | upper lock |
| 0-280mm | 0.02mm | 0-11" | 0.001" | ± 0.04mm | upper lock |

Dimension

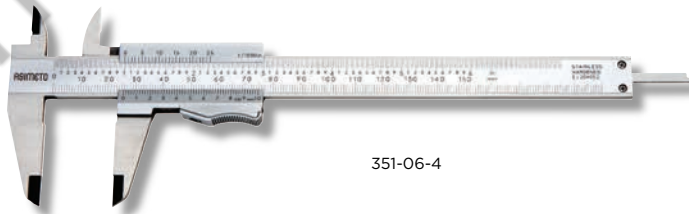


| Range | L | a | b | c | d |
|-----------------|-----|----|------|------|----|
| Inch/Metric | mm | mm | mm | mm | mm |
| 0-5.2"/0-130mm | 228 | 40 | 21 | 16.5 | 16 |
| 0-7.2"/0-180mm | 290 | 50 | 23.5 | 19 | 17 |
| 0-11.2"/0-280mm | 410 | 64 | 27.5 | 22 | 20 |

Vernier Calipers

351 Series

Thumb Clamp

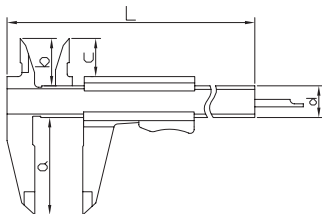


351-06-4

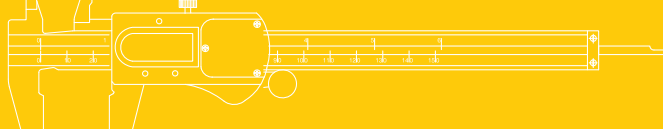
SPECIFICATIONS

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

Dimension

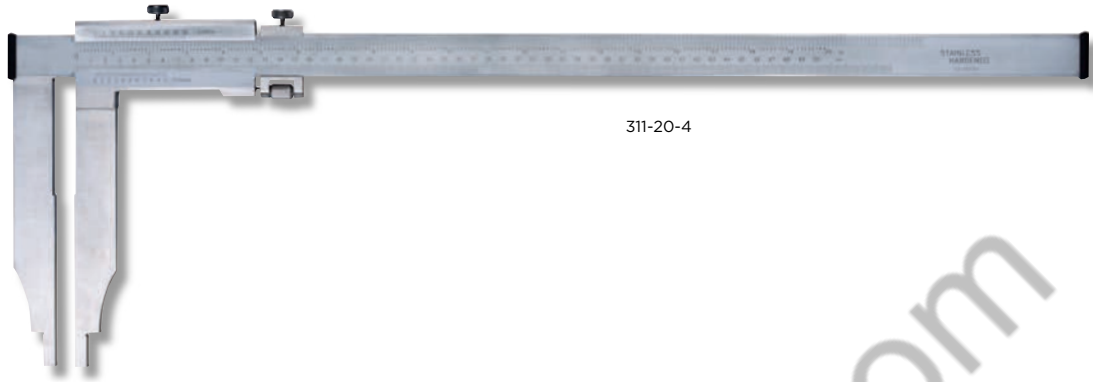


| Range | L | a | b | c | d |
|--------------|-----|----|------|------|----|
| Inch/Metric | mm | mm | mm | mm | mm |
| 0-6"/0-150mm | 228 | 40 | 21 | 16.5 | 16 |
| 0-8"/0-200mm | 290 | 50 | 23.5 | 19 | 17 |



Long Jaw Vernier Calipers (Mono block)

311 Series



311-20-4

FEATURES

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

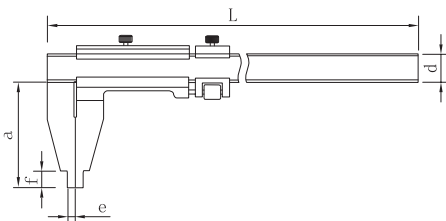
STANDARD ACCESSORIES

- Warranty card, Instruction manual,
Calibration certificate

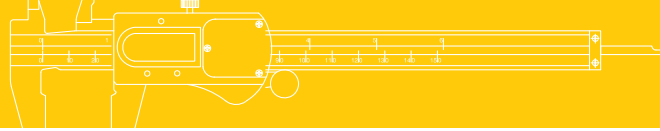
SPECIFICATIONS

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

Dimension



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



Long Jaw Vernier Calipers (Open block)

313 Series



313-20-4

FEATURES

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

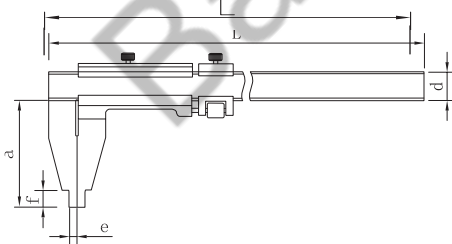
STANDARD ACCESSORIES

- Warranty card, Instruction manual, Calibration certificate

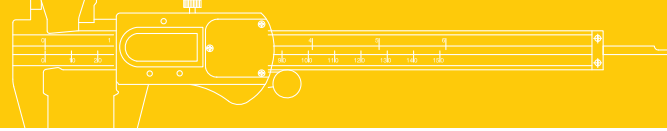
SPECIFICATIONS

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

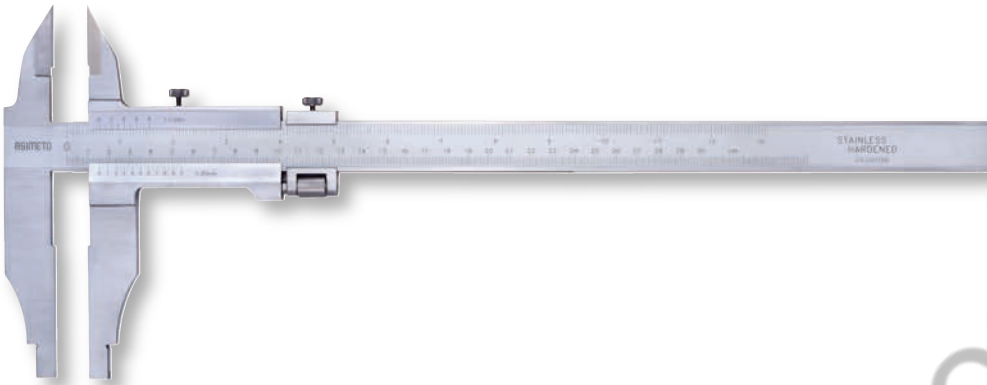
Dimension



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



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



302-12-2

STANDARD ACCESSORIES

- Warranty card, Instruction manual, Calibration certificate

FEATURES

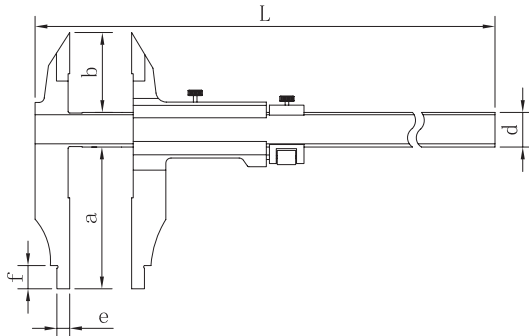
- Graduation:
Inch: .001"
Metric: 0.02mm or 0.05mm
- Stainless steel
- With upper knife-edge for external diameter measurement
- Designed with fine adjustment to allow precise movement of the slider
- Models available with an assortment of Metric/Inch scale configurations
- Internal measurement jaws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

SPECIFICATIONS

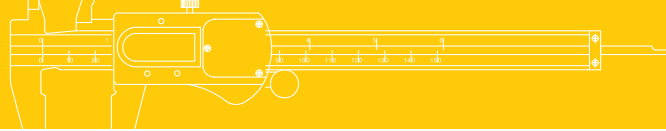
| Range | Graduation | Range | Graduation | Accuracy | Jaw Length | Code No. |
|----------|------------|----------|------------|----------|------------|-----------------|
| Lower | Lower | Upper | Upper | | | |
| 0-12" | .001" | 0-300mm | 0.02mm | ± .0015" | 56mm+100mm | 302-12-1 |
| 0-20" | .001" |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

Remark: Special Jaw Length are upon requested

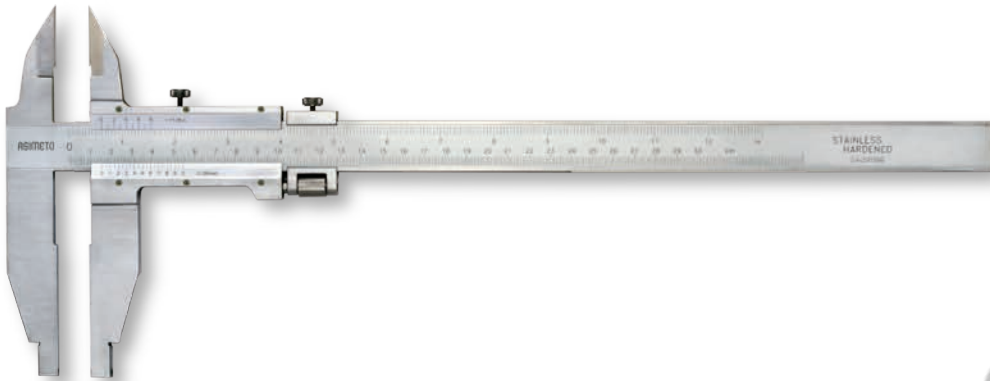
Dimension



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



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



302-12-8

STANDARD ACCESSORIES

- Warranty card, Instruction manual, Calibration certificate

FEATURES

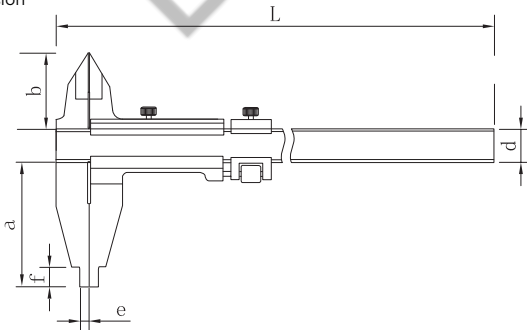
- Graduation:
Inch: .001"
Metric: 0.02mm
- With upper knife-edge for external diameter measurement
- Designed with fine adjustment to allow precise movement of the slider
- Stainless steel
- Models available with an assortment of Metric/Inch scale configurations
- Internal measurement jaws are rounded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

SPECIFICATIONS

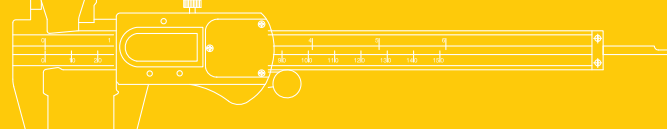
| Range | Graduation | Range | Graduation | Accuracy | Jaw Length | Code No. |
|----------|------------|----------|------------|----------|-------------|-----------------|
| Lower | Lower | Upper | Upper | | | |
| 0-12" | .001" | 0-300mm | 0.02mm | ± .0015" | 36.5mm+90mm | 302-12-9 |
| 0-20" | .001"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

Remark: Special Jaw Length are upon requested

Dimension

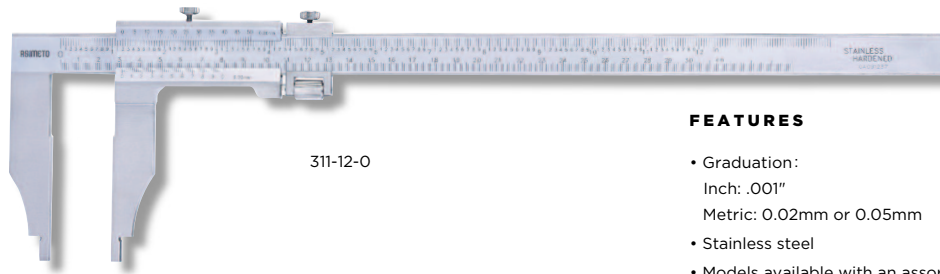


| Range | L | a | b | d | e | f |
|---------------|------|-----|------|----|----|----|
| Inch/Metric | mm | mm | mm | mm | mm | mm |
| 0-12"/0-300mm | 470 | 90 | 36.5 | 24 | 10 | 15 |
| 0-20"/0-500mm | 735 | 150 | 55 | 31 | 10 | 24 |
| 0-32"/0-800mm | 1035 | 150 | 64 | 31 | 10 | 24 |



Heavy Duty Vernier Calipers (Mono block)

311 Series



311-12-0

FEATURES

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

STANDARD ACCESSORIES

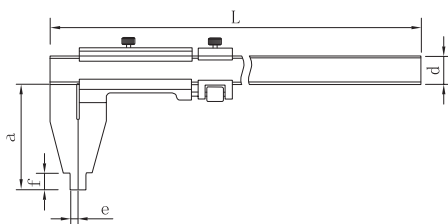
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

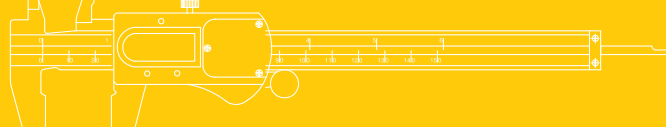
| Range | Graduation | Range | Graduation | Accuracy | Jaw Length | Code No. |
|----------|------------|----------|------------|----------|------------|-----------------|
| Lower | Lower | Upper | Upper | | | |
| 0-12" | .001" | 0-300mm | 0.02mm | ± .0015" | 60mm | 311-12-1 |
| 0-18" | .001" | 0-450mm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

Remark: Special Jaw Length are upon requested

Dimension

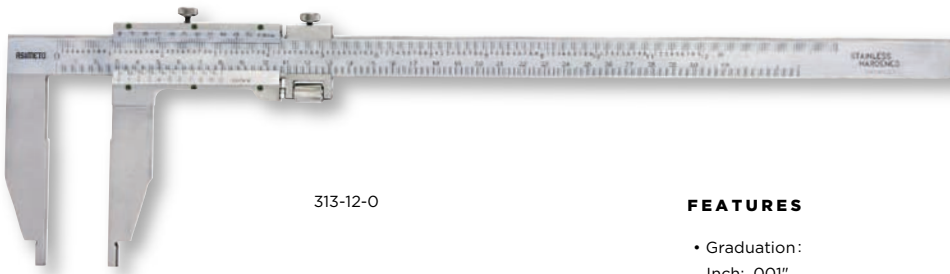


| Range | L | a | d | e | f |
|------------------|------|-----|----|----|----|
| Inch/Metric | mm | mm | mm | mm | mm |
| 0-12" / 0-300mm | 450 | 75 | 20 | 5 | 12 |
| 0-18" / 0-450mm | 685 | 100 | 24 | 10 | 15 |
| 0-20" / 0-500mm | 735 | 100 | 24 | 10 | 15 |
| 0-24" / 0-600mm | 835 | 100 | 31 | 10 |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



Heavy Duty Vernier Calipers (Open block)

313 Series



313-12-0

FEATURES

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

STANDARD ACCESSORIES

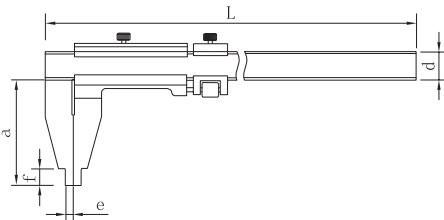
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

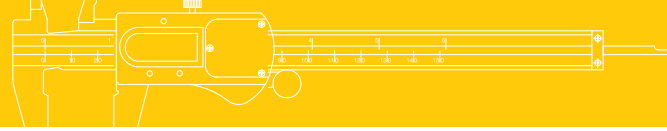
| Range | Graduation | Range | Graduation | Accuracy | Jaw Length | Code No. |
|----------|------------|----------|------------|----------|------------|-----------------|
| Lower | Lower | Upper | Upper | | | |
| 0-12" | .001" | 0-300mm | 0.02mm | ± .0015" | 60mm | 313-12-1 |
| 0-18" | .001" | 0-450mm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

Remark: Special Jaw Length are upon requested

Dimension



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



Circle Vernier Calipers

322 Series

FEATURES

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

STANDARD ACCESSORIES

- Warranty card

SPECIFICATIONS

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



322-72-0

T Form Marking Calipers

FEATURES

- Graduation: 0.05mm
- Made of Stainless Steel

STANDARD ACCESSORIES

- Warranty card

SPECIFICATIONS

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



322-51-0

Marking Calipers

FEATURES

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

STANDARD ACCESSORIES

- Warranty card

SPECIFICATIONS

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



322-61-0

Measuring Gauges

FEATURES

- Graduation: 0.1mm
- Made with Stainless Steel

STANDARD ACCESSORIES

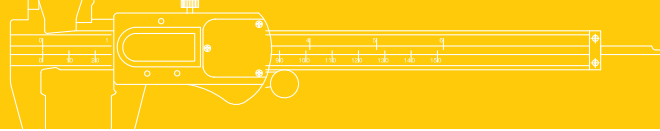
- Warranty card

SPECIFICATIONS

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



322-81-0



Internal Dial Caliper Gauges

403 Series

FEATURES

- Graduation: .001" / 0.025mm.
- For checking internal bores, recess diameters, etc.
- Highly recommended for quick ID comparisons.
- Gauge has a movement of 1" (25 mm).
- Can be set with a micrometer or ring gauge.
- Bezel rotates for zero setting.
- Button for closing arms. Arms automatically open when button is released.
- Unit is spring-loaded and makes point contact at constant measuring pressure.
- Arms have 0.06" diameter measuring tips.
- Revolution counter.
- Leg length 3-1/4".

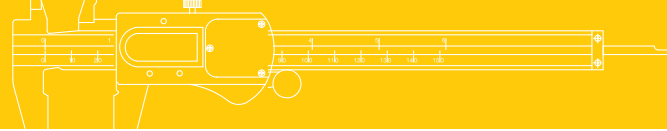
STANDARD ACCESSORIES

- S-wrench
- Warranty card, Calibration certificate



SPECIFICATIONS

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



Internal Caliper Gauges

400 / 403 Series



400-14-0



403-11-0

FEATURES

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

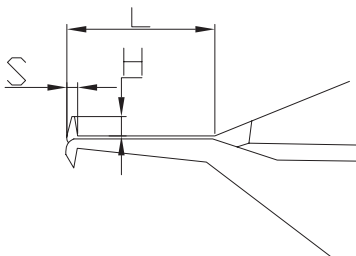
STANDARD ACCESSORIES

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

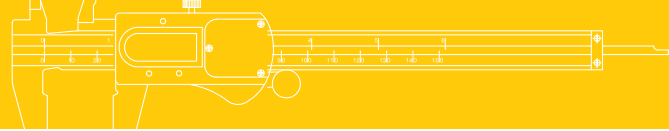
SPECIFICATIONS

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

Dimension

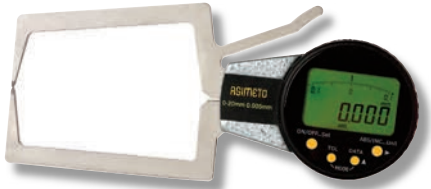


| Metric | Inch | L | S | H |
|---------|----------|------|-------|-------|
| Range | Range | | | |
| 5-15mm | .2-.6" | 20mm | 1.0mm | 1.5mm |
| 10-20mm | .4-.8" | 25mm | 1.5mm | 3.0mm |
| 20-30mm | .8-1.2" | 30mm | 2.0mm | 6.5mm |
| 30-40mm | 1.2-1.6" | 30mm | 2.5mm | 9.0mm |
| 40-50mm | 1.6-2.0" |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

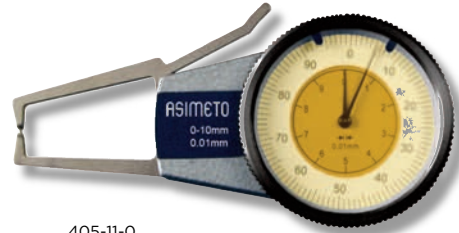


External Caliper Gauges

404 / 405 Series



404-21-0



405-11-0

FEATURES

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

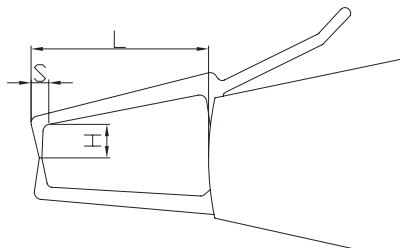
STANDARD ACCESSORIES

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

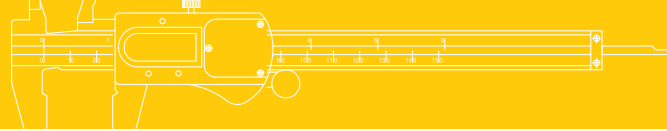
SPECIFICATIONS

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

Dimension



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

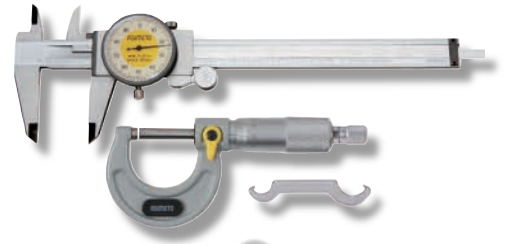


Tool Kits

960 Series

Kit #1 Analog

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



960-01-0

Kit #2 Analog Plus

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



960-02-0

Kit #3 Digital Plus

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



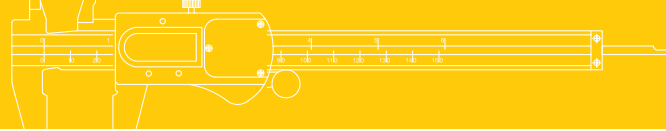
960-03-1

Kit #5 Digital

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



960-05-1



Tool Kits

960 Series



960-10-0



960-08-0

Kit #6 Magnetic Base and Dial Gauge

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

Kit #7 Magnetic Base and Dial Gauge Plus

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

Kit #8 Magnetic Adj. Base and Dial Gauge

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

Kit #9 Magnetic Adj. Base and Dial Gauge Plus

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

Kit #10 Magnetic Base and Test Indicator

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

Kit #11 Magnetic Base and Test Indicator Plus

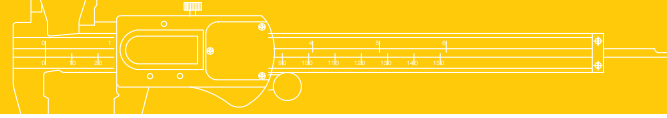
| | Inch | Metric |
|---|----------------------------|----------------------------|
| Code No. | 960-11-1 | 960-11-0 |
| Individual Description | Individual Code No. | Individual Code No. |
| Magnetic Stand with 6" Rods and Universal Clamp | 601-01-1 | 601-01-0 |
| Horiz. Dial Test Indicator .008" x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

Kit #12 Magnetic Adj. Base and Test Indicator

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

Kit #13 Magnetic Adj. Base and Test Indicator Plus

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



Tool Kits

960 Series

Kit #14B Digital Plus

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

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



960-14-1B



960-14-1B/W

Kit #16 Digital Plus

| | Inch |
|----------|----------|
| Code No. | 960-16-1 |

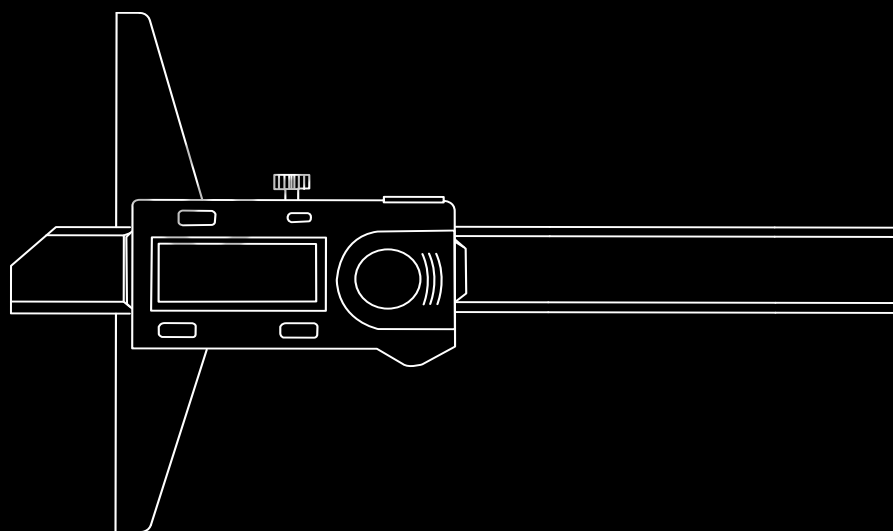
| Individual Description | Individual Code No. |
|--|---------------------|
| Articulating arm with magnetic base, type II | 602-02-1 |
| 0-.03" x .0005" Horiz. Dial Test Indicator. | 501-73-3 |
| 0-1" x .0001" Outside Mic. | 101-01-3 |
| 0-1" x .001" AGD2 Dial Indicator | 402-26-1 |
| 0-6" x .0005"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



960-16-1

Depth & Height Gauges

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





Depth Calipers

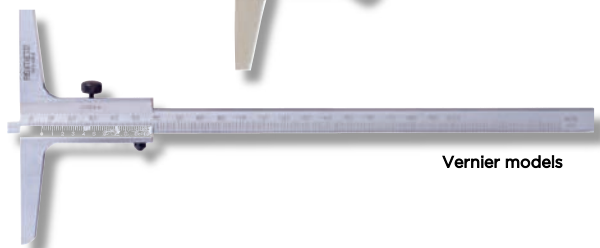
321 / 327 Series



ABS Digital models



Digital models



Vernier models

FEATURES

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

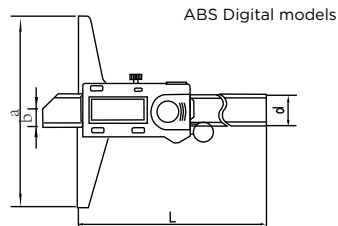
STANDARD ACCESSORIES

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

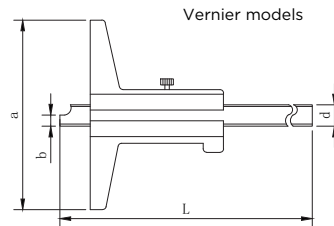
SPECIFICATIONS

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

Dimension

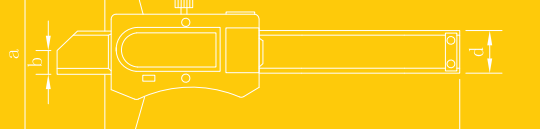


ABS Digital models



Vernier models

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



Depth Calipers With Single Hook

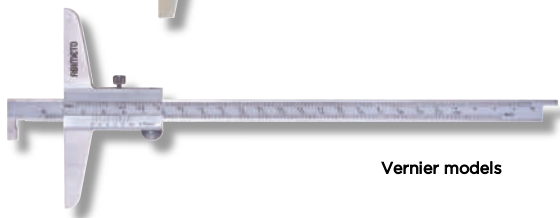
322 Series



ABS Digital models



Digital models



Vernier models

FEATURES

- Resolution:
 - Digital models: .0005" / 0.01mm
 - Vernier models: .001" / 0.05mm
- The stationary measuring surface on the beam protrudes at right angles (measuring hook) to allow for the measurement of depths, internal groove positions, and other intricate characteristics
- Measurements can be taken on either side of the measuring hook
- Vernier models are designed allowing the main beam to be reversible with corresponding scales on the slider
- All measuring surfaces are hardened
- Both Vernier and Digital models are available
- Cable data output: 900-05-4 / 5 (ABS Models only)
- Wireless data output:
 - Transmitting Device : 901-00-4 / 6 (ABS Models only)
 - Receiver Device: 901-00-3

STANDARD ACCESSORIES

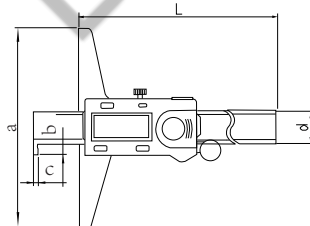
- Battery (Digital models)
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

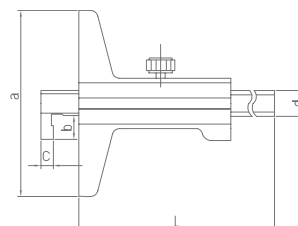
| Inch | | | Metric | | | Inch | Metric |
|---------------------------|------------|----------|---------|------------|----------|-----------------|-----------------|
| Range | Graduation | Accuracy | Range | Graduation | Accuracy | Code No. | Code No. |
| ABS Digital models | | | | | | | |
| 0-6" | .0005"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

Dimension

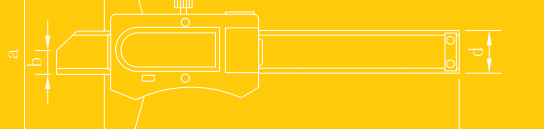
ABS Digital models



Vernier models

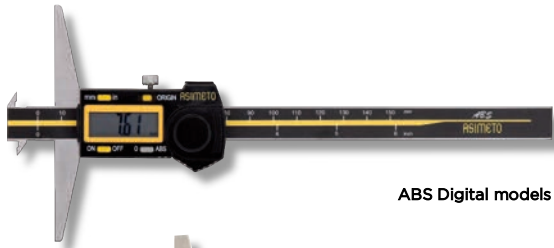


| Range | ABS Digital models | | | | | Vernier models | | | | |
|---------------|--------------------|-------|-----|-----|--------|----------------|-------|------|-----|------|
| Inch/Metric | L | a | b | c | d | L | a | b | c | d |
| 0-6"/0-150mm | 232mm | 100mm | 5mm | 2mm | 14.5mm | 230mm | 100mm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



Depth Calipers With Double Hook

323 / 331 Series



ABS Digital models



Digital models



Vernier models

FEATURES

- Resolution:
Digital models: .0005" / 0.01mm
Vernier models: .001" / 0.05mm
- The hooked measuring surfaces are used for measurement of internal or external grooves and other intricate work piece characteristics
- The main beam on the Vernier models is double sided with dual scales, and is able to be reversed in the slider for measurement flexibility
- The base and measuring faces are hardened and precision ground
- Both Digital and Vernier models are available
- Cable data output: 900-05-4 / 5 (ABS Models only)
- Wireless data output:
Transmitting Device : 901-00-4 / 6 (ABS Models only)
Receiver Device: 901-00-3

STANDARD ACCESSORIES

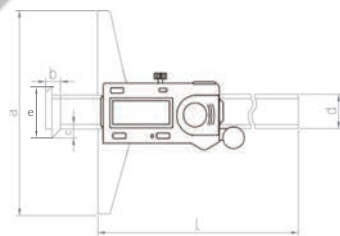
- Battery (Digital models)
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

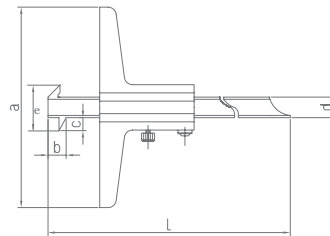
| Inch | | | Metric | | | Inch | | Metric | |
|---------------------------|------------|----------|---------|------------|----------|-----------------|----------|--------|-----------------|
| Range | Graduation | Accuracy | Range | Graduation | Accuracy | Code No. | Code No. | | |
| ABS Digital models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

Dimension

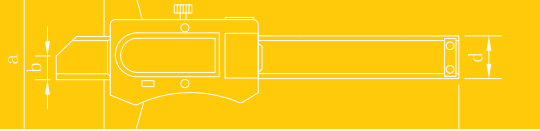
ABS Digital models



Vernier models



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



Depth Base Attachment for Calipers

327 Series



327-66-9

FEATURES

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

SPECIFICATIONS

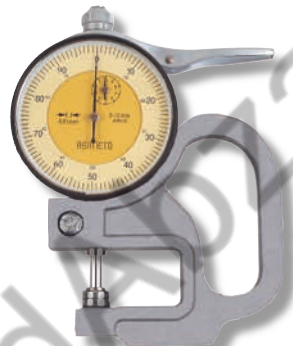
| Base Length | Code No. |
|-------------|-----------------|
| 75mm/3" | 327-66-9 |

Thickness Gauges

495 / 491 Series



495-02-0



491-01-0

FEATURES

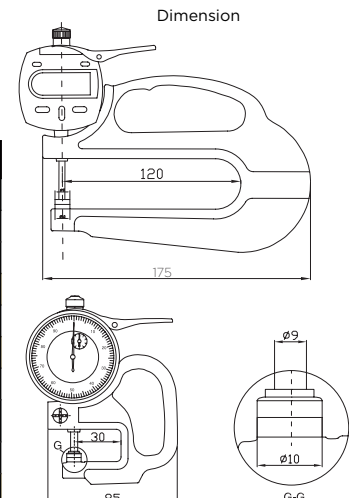
- Resolution:
 - Dial models: .001" / 0.01mm
 - Digital models: .0005" or .00005" / 0.01mm or 0.001mm
- Designed for the measurement of paper, film, wire, sheet metal, jewelry, leather and similar materials
- Measurement anvils are flat

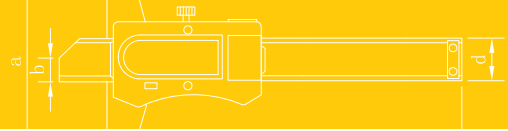
STANDARD ACCESSORIES

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

SPECIFICATIONS

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





Depth Gauges

473 / 475 Series

FEATURES

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

STANDARD ACCESSORIES

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

SPECIFICATIONS

Digital models

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

Dial models

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



475-04-4



473-04-0

Digital Depth Gauges

321 Series

FEATURES

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

STANDARD ACCESSORIES

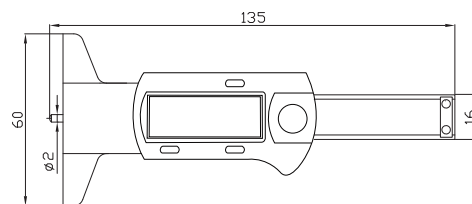
- Battery
- Warranty card, Calibration certificate

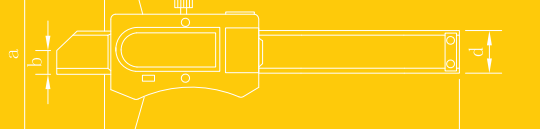
SPECIFICATIONS

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



321-01-2





Single Beam Digital Height Gauges with Hand Wheel

626 Series

FEATURES

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

STANDARD ACCESSORIES

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

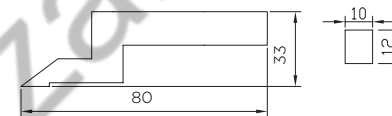
SPECIFICATIONS

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



626-12-0

Dimension



Digital Height Gauges

625 Series

FEATURES

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

STANDARD ACCESSORIES

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

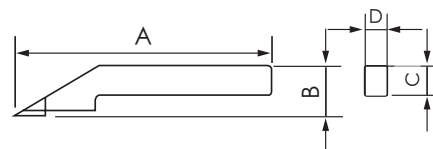
SPECIFICATIONS

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



625-24-0

Dimension





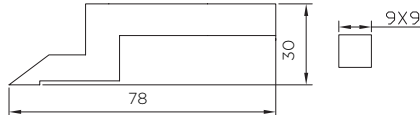
Double Beam Digit Counter Height Gauges with Hand Wheel

623 Series



623-18-1

Dimension



FEATURES

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

STANDARD ACCESSORIES

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

SPECIFICATIONS

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

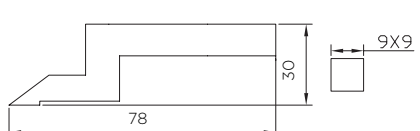
Double Beam Digital Height Gauges with Hand Wheel

627 Series



627-24-0

Dimension



FEATURES

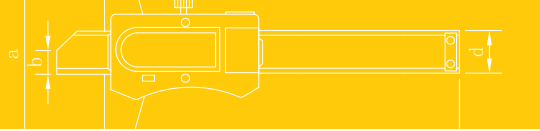
- Resolution: .001" / 0.01mm
- Large LCD display
- Metric/Inch system conversion
- High precision, measurement more accurate
- Designed with hand wheel micro-adjustable rack and pinion for precision positioning
- Can be used with a test indicator and holder for precise measurement

STANDARD ACCESSORIES

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

SPECIFICATIONS

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



Vernier Height Gauges

621 Series



621-24-0

FEATURES

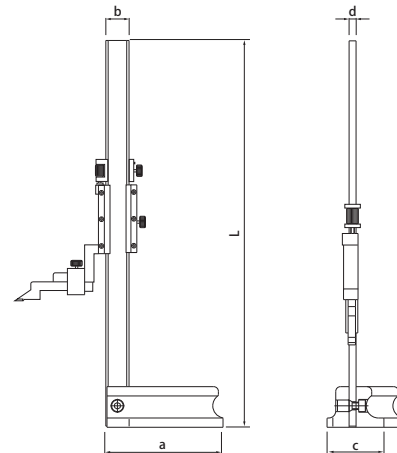
- Graduation:
Inch: .001" or 1/128"
Metric: 0.02mm or 0.05mm
- The fine-adjustment allows the slider to be precisely positioned
- Matte chrome finish
- Stainless steel design
- The base is designed with a thermal heat isolation hand grip

STANDARD ACCESSORIES

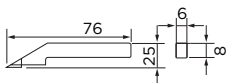
- Carbide tipped scriber with clamp
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

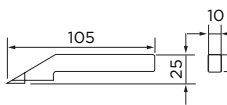
| Inch | | | Metric | | | Code No. |
|-------|------------|----------|----------|------------|----------|------------------|
| Range | Graduation | Accuracy | Range | Graduation | Accuracy | |
| 0-8" | 1/128" | ± .0015" | 0-200mm | 0.05mm | ± 0.05mm | 621-08-0L |
| 0-12" | 1/128" | ± .0015" | 0-300mm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



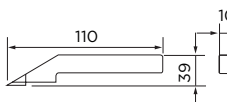
Dimension



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



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



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

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



260
250
240
230
220
210
200
190

2.749 in

mm/inch

OFF

ON/ZERO

ADD+

SUB-

ASIMETO

IP65

0.00040

ZERO/ABS

ORIGIN

ON/OFF

PRESET

TOL

60
50
40
30
20
10
0

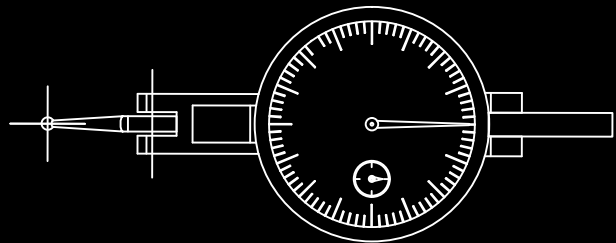
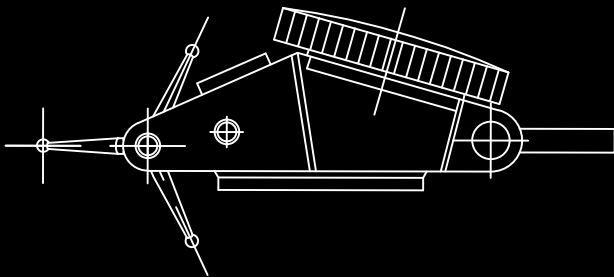
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Indicators & Dial Gauges

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





IP65 Digital Indicators

407 Series



407-02-5



407-01-4



Lifting lever

FEATURES

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

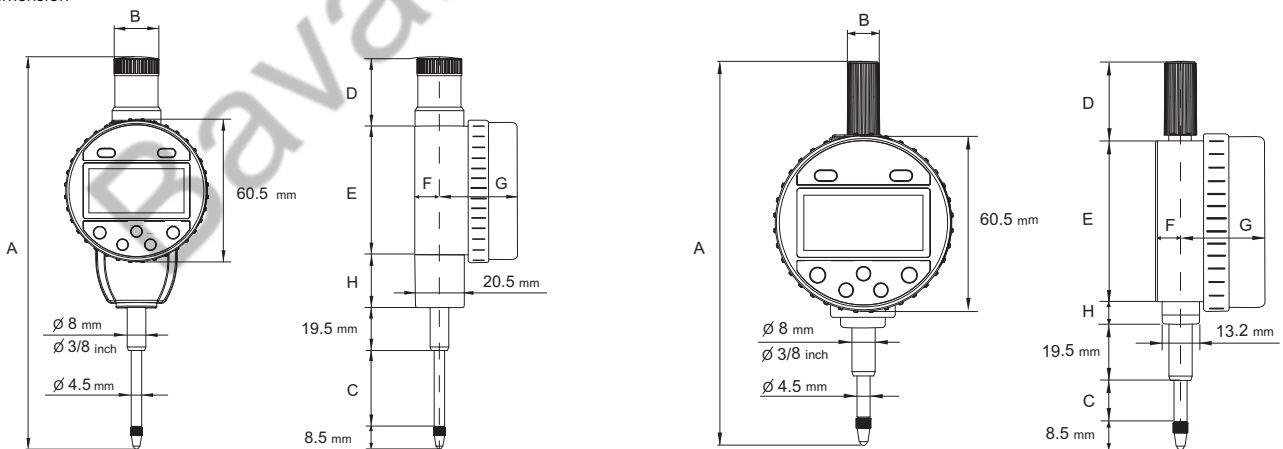
STANDARD ACCESSORIES

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

SPECIFICATIONS

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

Dimension



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



IP67 Digital Indicators

408 Series



FEATURES

- Resolution: .00005" / 0.001mm
- Protection level IP67
- Inductive measurement system
- Analog display
- With preset value function, the initial value can be set arbitrarily
- Tolerance measurement feature allows for the upper and lower tolerance for maximum and minimum
- ABS / INC conversion
- Inch/Metric conversion
- Built in wireless transmission (optional)
- Automatic power off
- Cable data output: 900-05-4 / 5
- Wireless data output:
Transmitting Device : 901-00-4 / 6
Receiver Device: 901-00-3

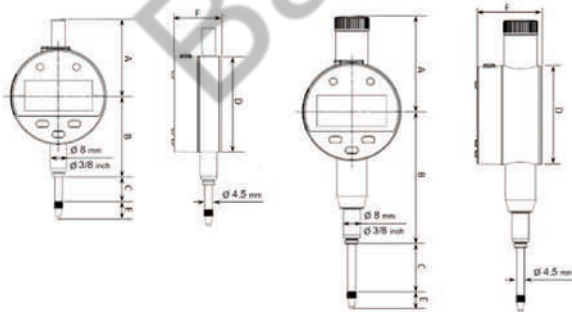
STANDARD ACCESSORIES

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

SPECIFICATIONS

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

Dimension



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



Digital Indicators

405 Series



405-95-1



405-01-4

FEATURES

- Resolution:
Inch: .0005"; .00005"
Metric: 0.01mm; 0.001mm
- The maximum, minimum, or runout value can be displayed during measurement.
- Tolerance measurement feature allows for the upper and lower tolerance for maximum and minimum.
- Inch / Metric and ABS/INC conversion
- Flat back (attached) and lug back supplied
- Ø8mm stem diameter for metric models
Ø3 / 8" stem diameter for inch models
- Cable data output: 900-20-0

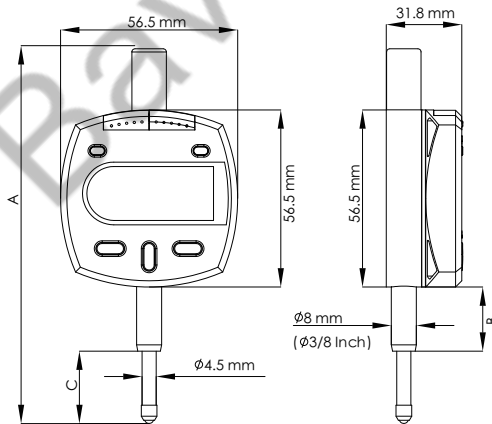
STANDARD ACCESSORIES

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

SPECIFICATIONS

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

Dimension



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



Digital Indicators With Analog Display

406 / 407 Series



406-05-0

FEATURES

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

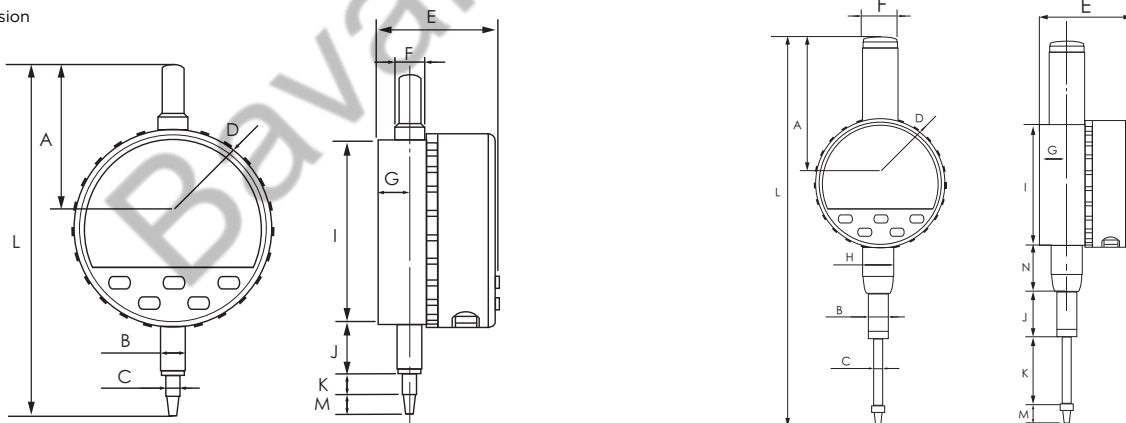
STANDARD ACCESSORIES

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

SPECIFICATIONS

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

Dimension



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



AGD1 Dial Indicators

401 Series



401-06-1



401-05-2

FEATURES

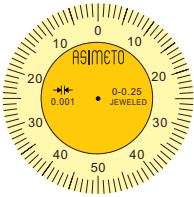
- Graduation:
Inch: .0005" / .001"
Metric: 0.01mm
- Dial face dia.: Ø1.61" / Ø42mm
- Jeweled
- Flat back (attached) and lug back supplied
- Inch models without revolution counter

STANDARD ACCESSORIES

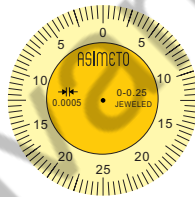
- Flat Back
- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

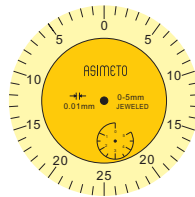
| Range | Graduation | Range / Rev. | Dial Reading | Accuracy | Code No. |
|----------------------------|------------|--------------|--------------|-----------|-----------------|
| Stem diameter Ø3/8" | | | | | |
| 0-.25" | .001" | .1" | 0-100 | ± .001" | 401-06-1 |
| 0-.25" | .001" | .1" | 0-50-0 |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



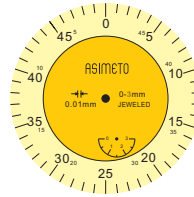
401-06-3



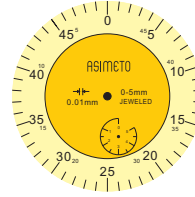
401-06-5



401-05-2
401-05-3

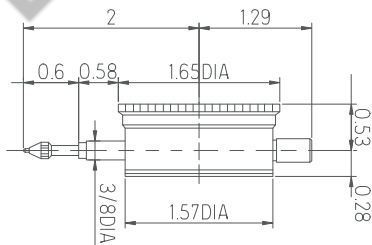


401-03-0
401-03-1

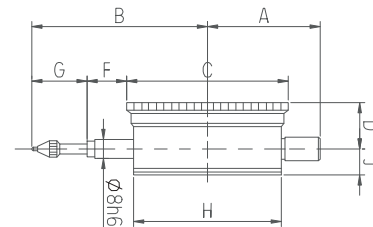


401-05-0
401-05-1

Inch Dimension



Metric Dimension



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



AGD2 Dial Indicators

402 Series

FEATURES

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

STANDARD ACCESSORIES

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

SPECIFICATIONS

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



402-10-0



402-26-5

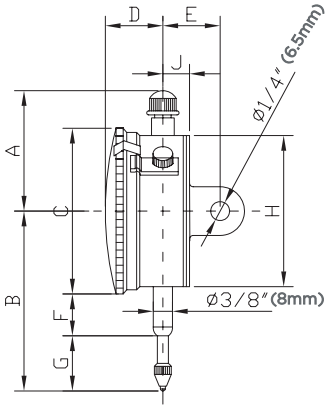


402-10-4

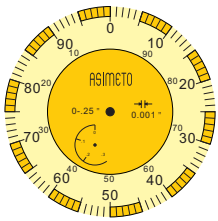


AGD2 Dial Indicators

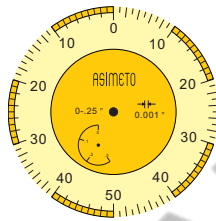
402 Series



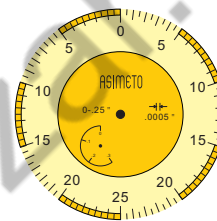
| Range | A | B | C | D | E | F | G | H | J |
|--------|------|------|------|------|------|------|------|------|------|
| Inch | inch | inch | inch | inch | inch | inch | inch | inch | inch |
| 0-.05" | 1.76 | 2.39 | 2.28 | 0.64 | 0.76 | 0.69 | 0.56 | 2.11 | 0.32 |
| 0-.25" | 1.48 | 2.54 | 2.28 | 0.64 | 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 |



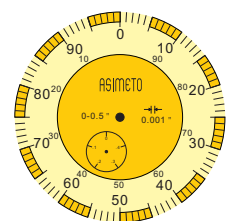
402-06-1



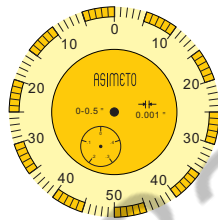
402-06-3



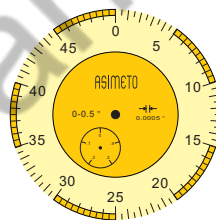
402-06-5



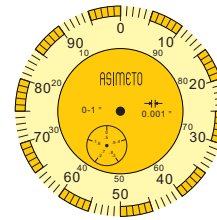
402-12-1



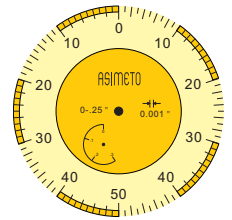
402-12-3



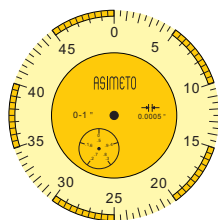
402-12-5



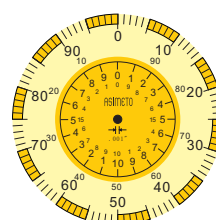
402-26-1



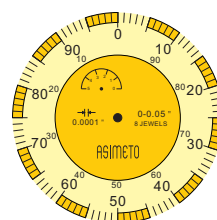
402-26-3



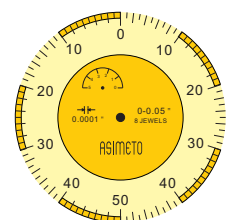
402-26-5



402-51-1



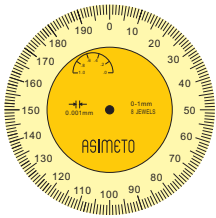
402-01-1



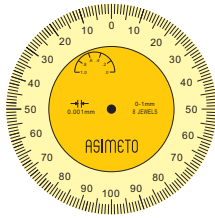
402-01-3



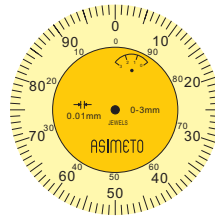
AGD2 Dial Indicators



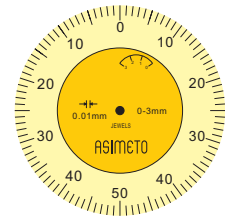
402-01-0
P402-01-0



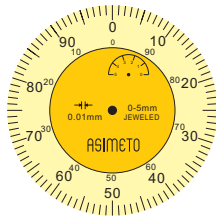
402-01-2



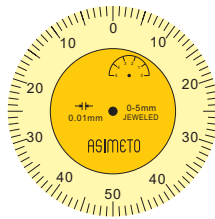
402-03-0
402-03-1



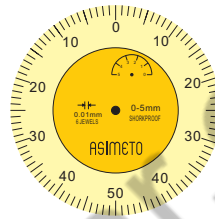
402-03-2
402-03-3



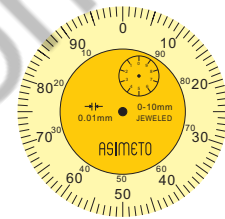
402-05-0
402-05-1



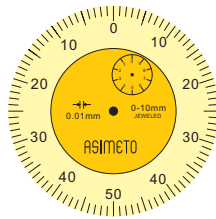
402-05-2
402-05-3



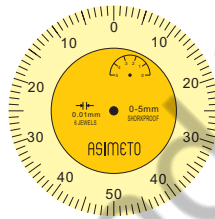
402-05-4



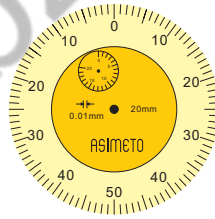
402-10-0
402-10-1



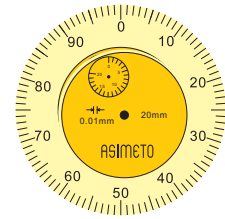
402-10-2
402-10-3



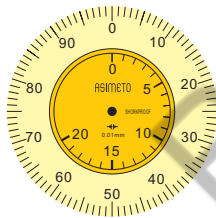
402-10-8



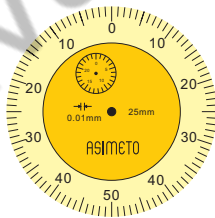
402-20-0
402-20-1



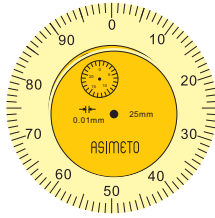
402-20-2



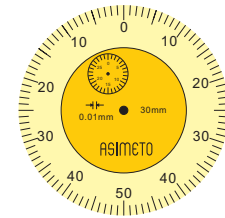
402-20-8



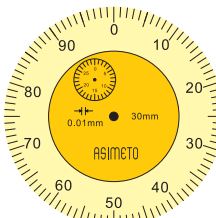
402-25-0
402-25-3



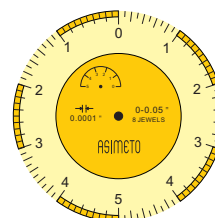
402-25-2



402-30-2



402-30-0



402-01-5



Crank Shaft Gauges

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

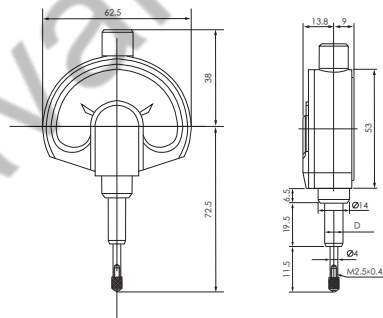
| Range | Dial Travel | Resolution | Code No. |
|----------|-------------|------------|----------|
| 60-300mm | 0-3mm | 0.01mm | 469-10-3 |
| 60-500mm | 0-3mm | 0.01mm | 469-10-5 |

Dial Comparators

422 Series



422-21-2



FEATURES

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

STANDARD ACCESSORIES

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

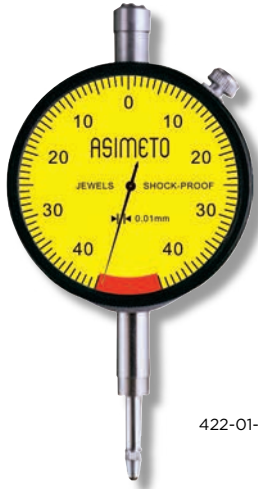
SPECIFICATIONS

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

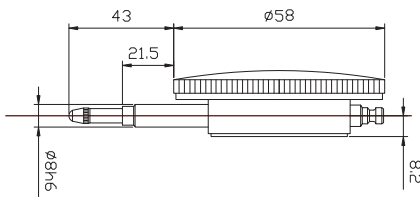


Dial Indicators - One revolution for Error-free Reading

422 Series



422-01-0



FEATURES

- Graduation: 0.01mm
- AGD2 series, dial face dia. Ø2.20" / Ø58mm
- Easy to read dial face
- A pair of limit hands are provided for quick and easy tolerance judgment
- Provided with an improved resistance to shop floor contaminants such as water and dust
- With Flat back
- With Ø8mm stem diameter

STANDARD ACCESSORIES

- Warranty card, Calibration certificate

SPECIFICATIONS

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

Straight Metric Indicator Stem Bushing

500 Series



FEATURES

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

SPECIFICATIONS

| Code No. |
|-----------------|
| 500-32-0 |



Back Plunger Type Dial Indicators

422 Series



422-11-1

FEATURES

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

STANDARD ACCESSORIES

- Warranty card, Calibration certificate

SPECIFICATIONS

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

Back Plunger Dial Indicator Sets

422 Series



FEATURES

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

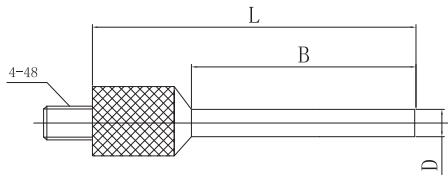
SPECIFICATIONS

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



Indicator Points

477 Series



SPECIFICATIONS

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

Dial Indicator Extension Rods & Sets

477 Series



FEATURES

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

SPECIFICATIONS

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



Dial Indicator Points

477 Series

FEATURES

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

SPECIFICATIONS

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



Stem Indicator Points

477 Series

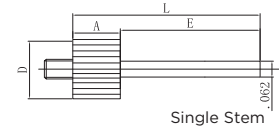
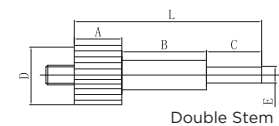
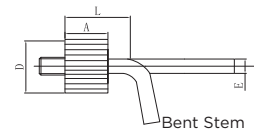


FEATURES

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

SPECIFICATIONS

| Type | 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 |





Dial Test Indicators

501 / 502 / 511 / 512 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
- Ruby contact point
- 501-02-1 is with copper body

STANDARD ACCESSORIES

- Warranty card, Instruction manual, Calibration certificate



Vertical



Horizontal

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 Ø3/8", & Ø .157" Dia.



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

Base Set

Indicator



Carbide tipped point
Ø2mm Dia.



Stem Dia.
Metric: Ø8mm
Inch: Ø3/8"



Knurled
Clamping Ring

SPECIFICATIONS

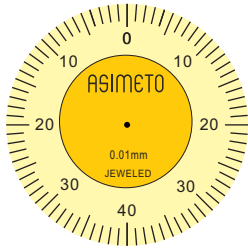
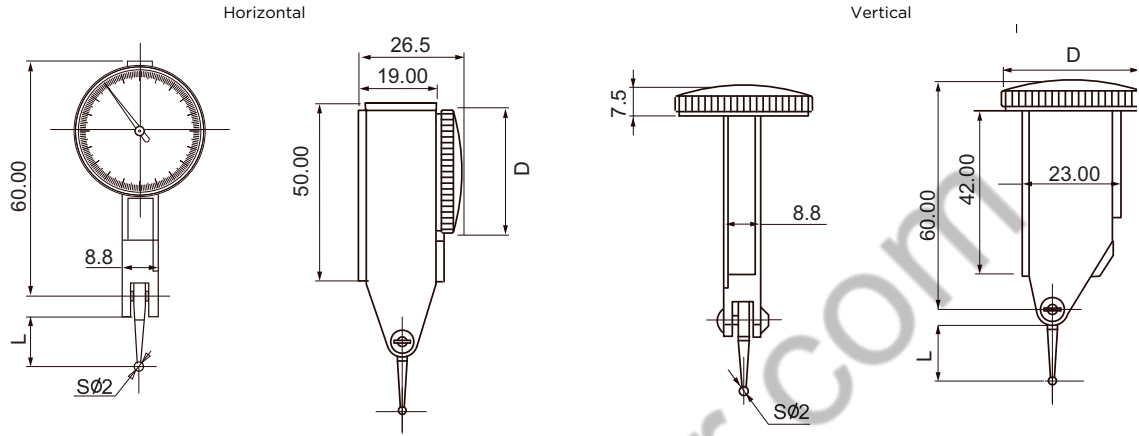
| | | | | | | D: Ø32mm / Ø1.26" Dia. | | D: Ø40mm / Ø1.57" Dia. | |
|-------------------|------------|--------------|----------|--------|------------|------------------------|--------------|------------------------|--------------|
| Range | Resolution | Dial Reading | Accuracy | L | Note | Code No. | Set Code No. | Code No. | Set Code No. |
| Inch | | | | | | | | | |
| .008" | .0001" | 0-4-0 | ± .0001" | 12.8mm | Horizontal | 501-78-3 | 501-78-7 | - | - |
| .03" | .0005" | 0-15-0 | ± .0005" | 13.5mm | Horizontal | 501-73-3 | 501-73-8 | - | - |
| .008" | .0001" | 0-4-0 | ± .0001" | 12.8mm | Vertical | 501-78-5 | - | - | - |
| .03" | .0005" | 0-15-0 | ± .0005" | 13.5mm | Vertical | 501-73-5 | - | - | - |
| .03" | .0005" | 0-15-0 | ± .0005" | 24mm | Horizontal | 501-73-6 | - | - | - |
| Metric | | | | | | | | | |
| 0.2mm | 0.002mm | 0-100-0 | 0.004mm | 12.2mm | Horizontal | 501-02-1 | - | - | - |
| 0.2mm | 0.002mm | 0-100-0 | 0.004mm | 12.8mm | Horizontal | 501-02-2 | 501-02-7 | 502-02-2 | 502-02-7 |
| 0.5mm | 0.01mm | 0-25-0 | 0.013mm | 14.4mm | Horizontal | 501-05-2 | 501-05-7 | 502-05-2 | 502-05-7 |
| 0.8mm | 0.01mm | 0-40-0 | 0.013mm | 14.4mm | Horizontal | 501-08-2 | 501-08-7 | 502-08-2 | 502-08-7 |
| 0.8mm | 0.01mm | 0-40-0 | 0.013mm | 25.4mm | Horizontal | 501-08-8 | - | - | - |
| 1.0mm | 0.01mm | 0-50-0 | 0.013mm | 18.8mm | Horizontal | 501-10-2 | 501-10-7 | 502-10-2 | 502-10-7 |
| 1.0mm | 0.01mm | 0-50-0 | 0.013mm | 32.6mm | Horizontal | 501-10-8 | - | - | - |
| 0.2mm | 0.002mm | 0-100-0 | 0.004mm | 12.8mm | Vertical | 501-02-4 | - | 502-02-4 | - |
| 0.5mm | 0.01mm | 0-25-0 | 0.013mm | 14.4mm | Vertical | 501-05-4 | - | 502-05-4 | - |
| 0.8mm | 0.01mm | 0-40-0 | 0.013mm | 14.4mm | Vertical | 501-08-4 | - | 502-08-4 | - |
| 1.0mm | 0.01mm | 0-50-0 | 0.013mm | 18.8mm | Vertical | 501-10-4 | - | 502-10-4 | - |
| G Series | | | | | | | | | |
| 0.2mm | 0.002mm | 0-100-0 | 0.004mm | 11.8mm | Horizontal | 501-02-6 | - | 502-02-6 | - |
| 0.8mm | 0.01mm | 0-40-0 | 0.008mm | 11.8mm | Horizontal | 501-08-6 | - | 502-08-6 | - |
| IP53 model | | | | | | | | | |
| 0.2mm | 0.002mm | 0-100-0 | 0.004mm | 11.8mm | Horizontal | 511-02-6 | - | 512-02-6 | - |
| 0.8mm | 0.01mm | 0-40-0 | 0.013mm | 11.8mm | Horizontal | 511-08-6 | - | 512-08-6 | - |



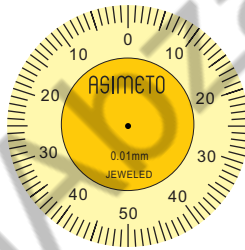
Dial Test Indicators

501 / 502 / 511 / 512 Series

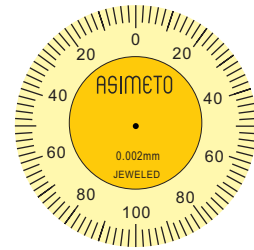
Dimension



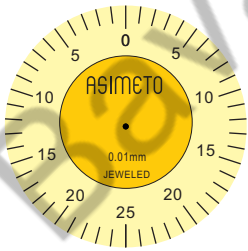
501-08-2 502-08-2
 501-08-4 502-08-4
 501-08-7 502-08-7
 501-08-6 502-08-6
 511-08-6 512-08-6



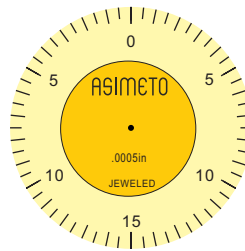
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 501-10-4 502-10-4
 501-10-7 502-10-7



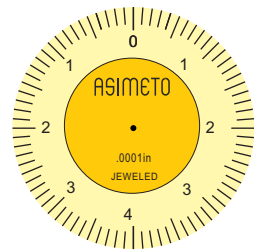
501-02-2 502-02-2
 501-02-4 502-02-4
 501-02-7 502-02-7
 501-02-6 502-02-6
 511-02-6 512-02-6



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



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



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



Extended Range Dial Test Indicators

503 / 504 Series



503-06-1



503-56-1



504-56-3

FEATURES

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

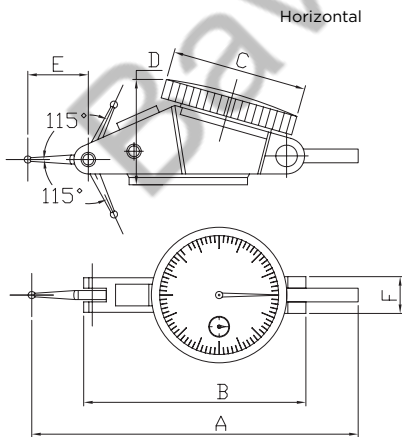
STANDARD ACCESSORIES

- Wrench
- Warranty card, Instruction manual, Calibration certificate

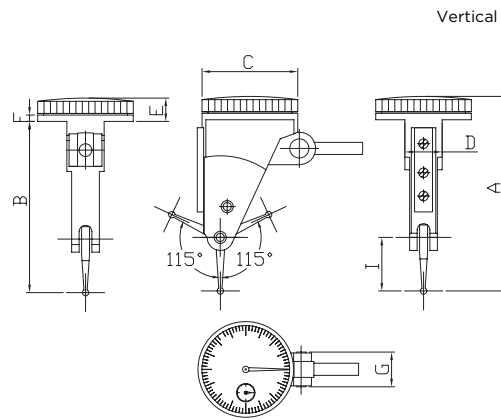
SPECIFICATIONS

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

Dimension



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

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



504-81-1

SPECIFICATIONS

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

SET #2

FEATURES

- Doubles the range of most of indicators
- Jeweled movement and easy to read dial
- Supplied with Xtra-Mag magnetic base
- Range: 0- .060", Graduation: .0005"
- Dial Reading 0-15-0, Dial Dia.: 1-5 / 16"
- 5 / 32" Stem, dovetail on front and back

STANDARD ACCESSORIES

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



504-82-1

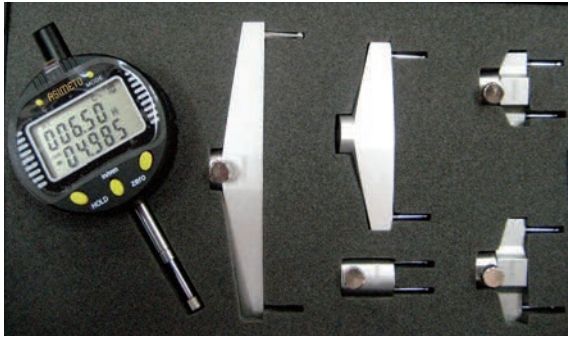
SPECIFICATIONS

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



Digital Radius Gauge

495 Series



FEATURES

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

STANDARD ACCESSORIES

- Warranty card, Instruction manual, Calibration certificate

SPECIFICATIONS

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

Centering Indicators

469 Series



469-00-6

FEATURES

- Graduation: .0005" / 0.01mm
- Provides a simplified method of centering a work piece or fixture on horizontal for vertical machines, internal or external diameters. Face of indicator remains stationary in any desired position while the machine spindle rotates, leaving the operator with both hands free to accurately position the machine table
- Shank Dia.: $\varnothing 3 / 8"$ / $\varnothing 10$ mm
- Operating speed not to exceed 800 RPM
- Range:
Internal: 5 / 32" - 12" / 4 - 300mm
External: Up to 12" / 300mm

STANDARD ACCESSORIES

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

SPECIFICATIONS

| | Dial Range | Accuracy | Code No. |
|--------|------------|---------------|----------|
| Metric | 0.01mm | 0.005mm | 469-00-6 |
| Inch | 0.0015" | $\pm 0.0002"$ | 469-00-8 |

Parts

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



Axial Support Bracket

500 Series



FEATURES

- Used for mounting Indicators with dovetails or rods
- 3 / 8" diameter body for secure clamping, with 5-1 / 2" overall reach
- Bends in many directions

SPECIFICATIONS

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



Surface Gauges

500 Series

FEATURES

- Base hardened
- Bottom grooved for cylindrical work
- Front end recessed for depressing spindle below base level
- Knurled thumb screw in rocker for extra fine adjustment
- Includes scriber
- Universal Surface Gauge includes clamp attachment (with 5 / 32" and 15 / 64" holes) for holding indicators, scribers, etc

SPECIFICATIONS

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



Dial Holders

500 Series

FEATURES

- Measuring depth with a dial indicator

SPECIFICATIONS

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





Optional Accessories for ASIMETO Test Indicators

500 Series

Contact Points



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

Dovetail Stem Sets



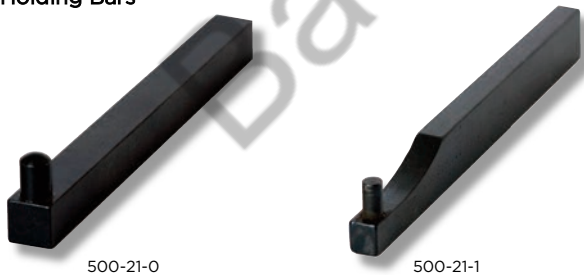
| Size | Code No. |
|-------|----------|
| 3/8" | 500-31-1 |
| 5/32" | 500-31-3 |
| 8mm | 500-31-0 |
| 6mm | 500-31-2 |
| 4mm | 500-31-5 |

Swivel Clamps



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

Holding Bars



500-21-0

500-21-1

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

Centering Holders

- Allows large diameter cylinders or holes to be centered



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



Dial Gauge Stands

670 Series



670-02-0



670-03-0



670-04-0



670-05-0



670-06-0

FEATURES

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

SPECIFICATIONS

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

Precision Granite Stands

670 Series



670-32-0



670-22-0

FEATURES

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

SPECIFICATIONS

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

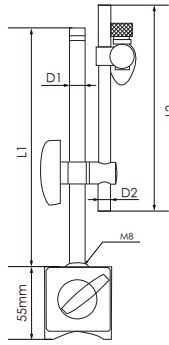


Magnetic Bases

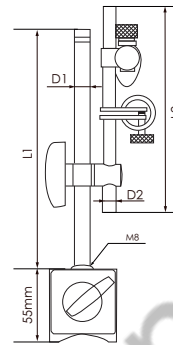
601 Series



601-01-1



601-02-1



FEATURES

- Accepts test indicators with dovetail clamping mechanism
- Dial gauges can be held by the 3/8" or 8mm diameter stem or by the lug backing plate
- The rotary knob switches natural magnet on or off
- The precision surfaces and the bottom V are securely fastened to the ferrous work piece or machine table when the rotary knob is in the on position
- #601-02-0 / 1 with Fine Adjustment

SPECIFICATIONS

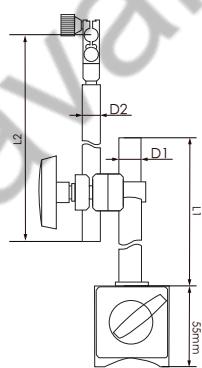
| Magnetic Power | Magnetic Base (L X W X H) | Main Stem D1 | L1 | Sub Pole D2 | L2 | Dia. of Hole | Remark | Inch Code No. | Metric Code No. |
|----------------|------------------------------|-----------------|-------|----------------|-------|--------------|------------------------|------------------|--------------------|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

Forced Locking Magnetic Bases

604 Series



604-02-0



FEATURES

- Accepts test indicators with dovetail clamping mechanism
- Dial gauges can be held by the 3/8" or 8mm diameter stem or by the lug backing plate
- New design, Holding more solid and reliable, more stable performance, higher accuracy
- The rotary knob switches natural magnet on or off
- The precision surfaces and the bottom V are securely fastened to the ferrous work piece or machine table when the rotary knob is in the on position

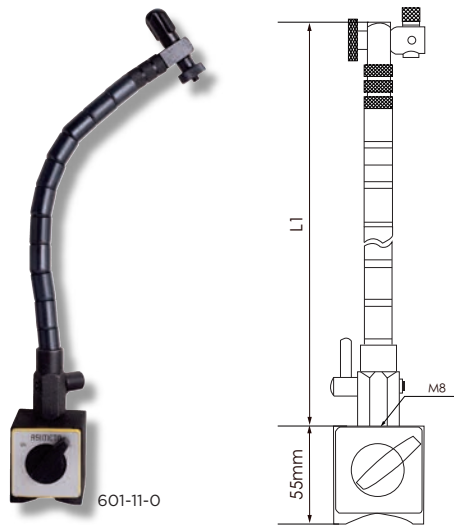
SPECIFICATIONS

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



Flexible Arm Magnetic Bases

601 Series



FEATURES

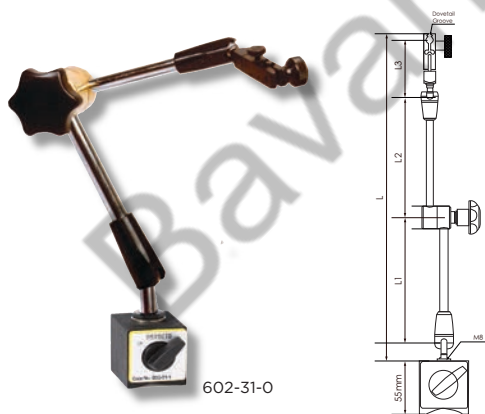
- Accepts test indicators with dovetail clamping mechanism
- Dial gauges can be held by the 3/8" or 8mm diameter stem or by the lug backing plate
- The multi-flex arm is turned rigid when the lever is activated
- The rotary knob switches natural magnet on or off
- The precision surfaces and the bottom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

SPECIFICATIONS

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

Articulating Arm Magnetic Bases

602 Series



FEATURES

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

SPECIFICATIONS

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

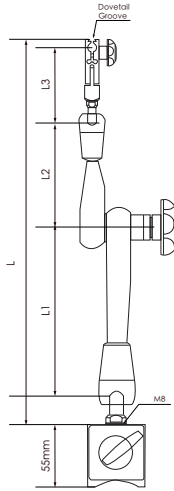


Articulating Arm Magnetic Bases

602 Series



602-02-1



FEATURES

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

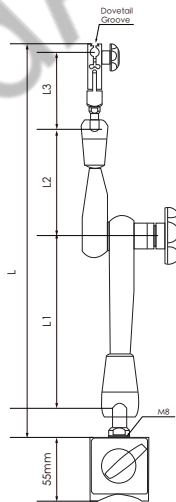
SPECIFICATIONS

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



602-05-3

602-04-3



FEATURES

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

SPECIFICATIONS

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

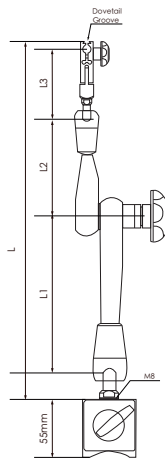


Hydraulic Magnetic Bases

603 Series



603-01-0



FEATURES

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

SPECIFICATIONS

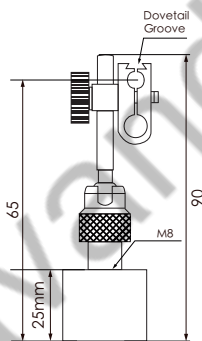
| Magnetic Power | Magnetic Base (L X W X H) | Arm | Dia. of Hole | | | | Code No. |
|----------------|------------------------------|-------|--------------|------|-------|-----------------------|-----------------|
| | | L1 | L2 | L3 | L | Slot | |
| 80 kgf | 60x50x55mm | 120mm | 116mm | 76mm | 337mm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

Permanent Magnetic Base

601 Series



602-12-0



FEATURES

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

SPECIFICATIONS

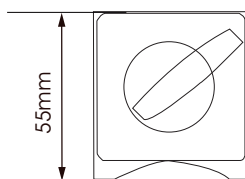
| Magnetic Power | Main body | Arm | Dia. of Hole | | Code No. |
|----------------|-----------|------|--------------|------|-----------------|
| | | | Hole | Slot | |
| 17 kgf | Ø30x25mm | 65mm | Ø8 / Ø6mm | 6mm | 601-12-0 |

Magnetic Bases

600 Series



600-01-1



SPECIFICATIONS

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

Bore Gauges

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

Dial Bore Gauges

483 / 484 Series

FEATURES

- Moveable probe pin with carbide ball
- .24-.4" / 6-10mm range is with fixed anvils
- .4-.74" / 10-18mm range is with plate guide and fixed anvils
- .7-1.4" / 18-35mm range is with canister and fixed anvils
- Over 1.4" / 35mm range is with wheel guide and inserting anvils

STANDARD ACCESSORIES

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



.24-.4" / 6-10mm



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



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



Over 1.4" / 35mm
Wheel guide



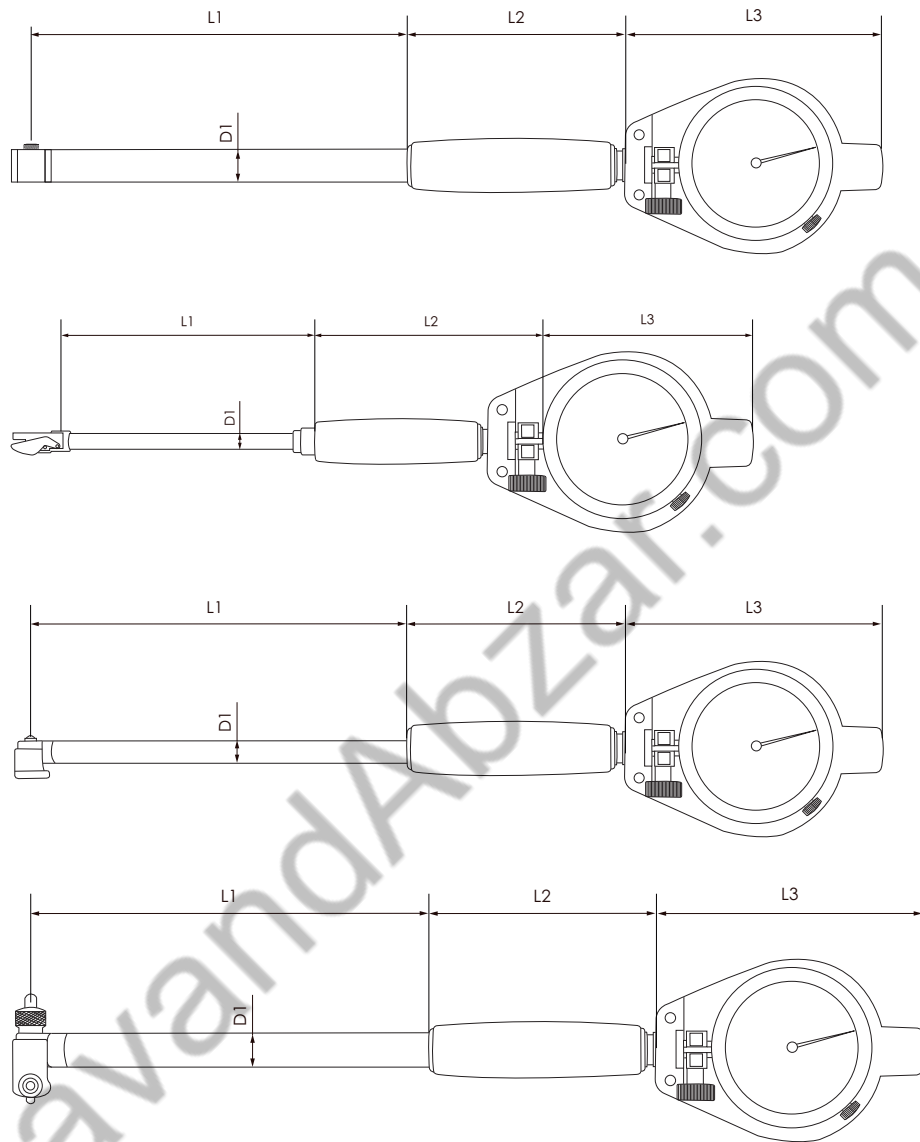
484-22-0

SPECIFICATIONS

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

Dial Bore Gauges

483 / 484 Series



SPECIFICATIONS

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

Digital Bore Gauges

485 / 486 Series



485-22-0

FEATURES

- Resolution: .00005" / 0.002mm / 0.001mm
- Dynamic carbide contact point
- Digital gauges has analog sweep display to determine minimum reading
- .24-.4"/6-10mm range is with fixed anvils
- .4-.74"/10-18mm range is with plate guide and fixed anvils
- .7-1.4"/18-35mm range is with canister and fixed anvils
- Over 1.4"/35mm range is with wheel guide and inserting anvils

STANDARD ACCESSORIES

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

SPECIFICATIONS

| Range | Number of Anvils | Number of Spacers | Range | Number of Anvils | Number of Spacers | Accuracy | Probe Depth | Inch Code No. | Metric Code No. |
|----------|------------------|-------------------|-----------|------------------|-------------------|----------|-------------|---------------|-----------------|
| .24"-.4" | 9 | - | 6-10mm | 9 | - | 0.012mm | 1.5"/40mm | 485-11-1 | 485-11-0 |
| .4-.7" | 9 | 1 | 10-18mm | 9 | 1 | 0.012mm | 4"/100mm | 485-12-1 | 485-12-0 |
| .7-1.5" | 11 | 2 | 18-35mm | 9 | 2 | 0.015mm | 6"/150mm | 485-21-1 | 485-21-0 |
| 1.4-2.4" | 6 | 3 | 35-50mm | 4 | 4 | 0.015mm | 6"/150mm | 485-22-1 | 485-22-0 |
| 2-6" | 11 | 3 | 50-160mm | 12 | 4 | 0.018mm | 6"/150mm | 485-31-1 | 485-31-0 |
| 6-10" | 6 | 5 | 160-250mm | 5 | 5 | 0.018mm | 16"/400mm | 485-32-1 | 485-32-0 |
| 10-16" | 6 | 5 | 250-400mm | 5 | 5 | 0.018mm | 16"/400mm | 485-33-1 | 485-33-0 |

Digital Indicators For Digital Bore Gauges

| Range | Resolution | Accuracy | Range | Resolution | Accuracy | Inch | Metric |
|--------|------------|----------|----------|------------|----------|-----------|-----------|
| 0-.25" | .00005" | ± .0003" | 0-6.35mm | 0.002mm | 0.006mm | - | - |
| | | | | | | PJ4850-01 | PJ4850-02 |

| Metric Range | Number of Anvils | Number of Spacers | Accuracy | Probe Depth | Code No. |
|--------------|------------------|-------------------|----------|-------------|----------|
| 6-10mm | 9 | - | 0.005mm | 1.5"/40mm | 486-11-0 |
| 10-18mm | 9 | 1 | 0.005mm | 4"/100mm | 486-12-0 |
| 18-35mm | 9 | 2 | 0.007mm | 4"/100mm | 486-21-0 |
| 35-50mm | 4 | 4 | 0.007mm | 6"/150mm | 486-22-0 |
| 50-160mm | 12 | 4 | 0.007mm | 6"/150mm | 486-31-0 |
| 160-250mm | 5 | 5 | 0.007mm | 16"/400mm | 486-32-0 |
| 250-405mm | 5 | 5 | 0.007mm | 16"/400mm | 486-33-0 |

Digital Indicators For Digital Bore Gauges

| Metric Range | Resolution | Accuracy | Inch | Metric |
|--------------|------------|----------|-----------|--------|
| 0-6.35mm | 0.001mm | 0.004mm | - | - |
| | | | PJ4850-03 | |

Large Diameter Dial Bore Gauges

484 Series



FEATURES

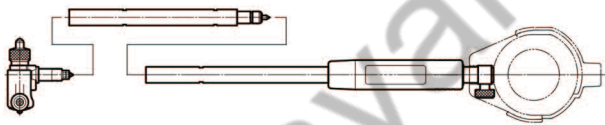
- Carbide tipped contact point, wheel guide
- Equipped with dial indicator #402-10-2

SPECIFICATIONS

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

Extension Rods

480 Series



FEATURES

- After the installation can be used to measure deep hole size
- Extension rod length can be up to 40" / 1000mm
- The use of single long extension rod will be better than connecting of multiple short Extension Rod

SPECIFICATIONS

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

Accessories

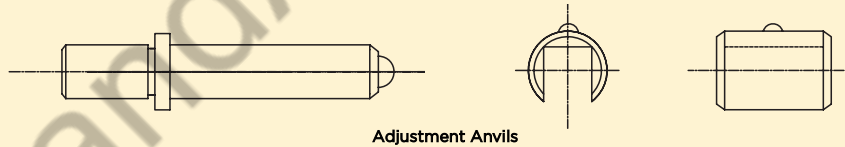


Metric Washers and Sub-Anvils

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

Inch Washers and Sub-Anvils

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



Metric Adjustment Anvils

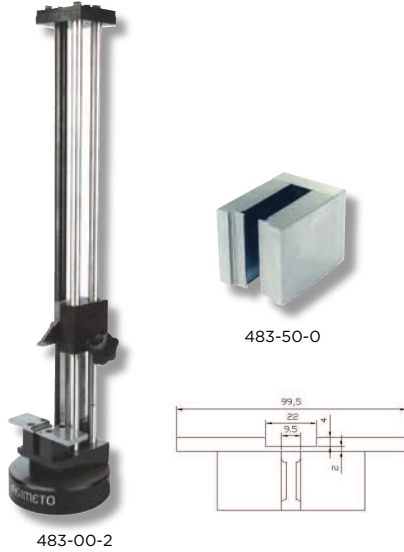
| Anvils Range (mm) | | | | | | | | | | | | | |
|-------------------|------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|-----|
| Range | Qty. | #1 | #2 | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 | #11 | #12 |
| 6-10mm | 9 | 6 | 6.5 | 7 | 7.5 | 8 | 8.5 | 9 | 9.5 | 10 | | | |
| 10-18mm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

Inch Adjustment Anvils

| Anvils Range (in) | | | | | | | | | | | | |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|-----|
| Range | Qty. | #1 | #2 | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 | #11 |
| .24-.4" | 9 | 0.24 | 0.26 | 0.28 | 0.3 | 0.32 | 0.34 | 0.36 | 0.38 | 0.4 | | |
| .4-.7" | 9 | 0.4 | 0.44 | 0.48 | 0.52 | 0.58 | 0.62 | 0.64 | 0.68 | 0.7 | | |
| .7-1.5" | 11 | 0.7 | 0.78 | 0.86 | 0.94 | 1.02 | 1.1 | 1.18 | 1.26 | 1.34 | 1.42 | |
| 1.4-2.4" | 6 | 1.4 | 1.6 | 1.8 | 2 | 2.2 | 2.4 | | | | | |
| 2-6" | 11 | 2 | 2.2 | 2.4 | 2.6 | 2.8 | 3 | 3.2 | 3.4 | 3.6 | 3.8 | 4 |
| 6-10" | 6 | 6 | 6.4 | 6.8 | 7.2 | 7.6 | 8 | | | | | |
| 10-16" | 6 | 10 | 10.4 | 10.8 | 11.2 | 11.6 | 12 | | | | | |

Bore Gauge Zero Checkers

483 Series



FEATURES

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

SPECIFICATIONS

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

Telescoping Gauges

487 Series



FEATURES

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

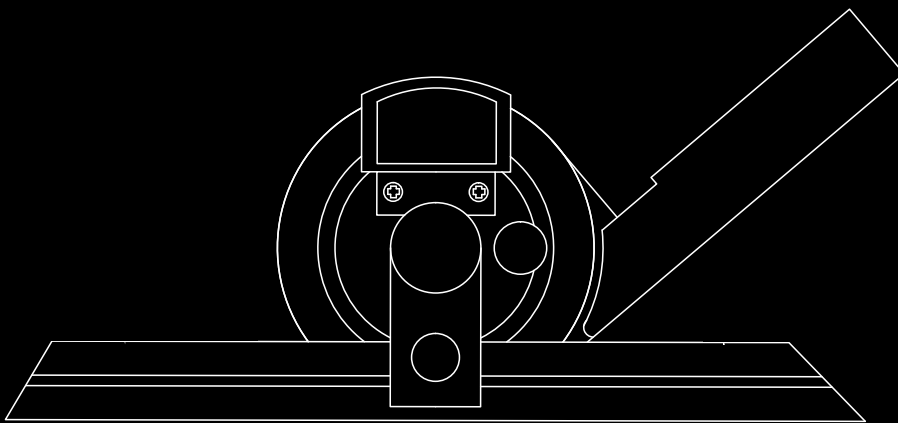
SPECIFICATIONS

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



Other Gauges

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





Protractors 490 Series



490-01-1



490-01-2

FEATURES

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

SPECIFICATIONS

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

Universal Bevel Protractors 490 Series



490-06-5

FEATURES

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

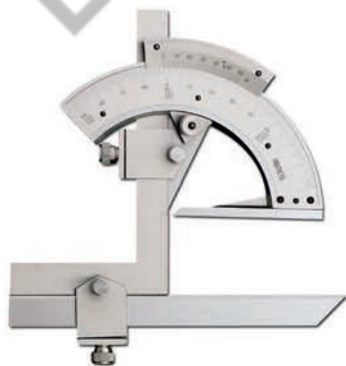
STANDARD ACCESSORIES

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

SPECIFICATIONS

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

Universal Angle Protractor 490 Series



490-05-2

FEATURES

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

STANDARD ACCESSORIES

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

SPECIFICATIONS

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



Dial Protractor

490 Series



490-10-2

FEATURES

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

STANDARD ACCESSORIES

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

SPECIFICATIONS

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

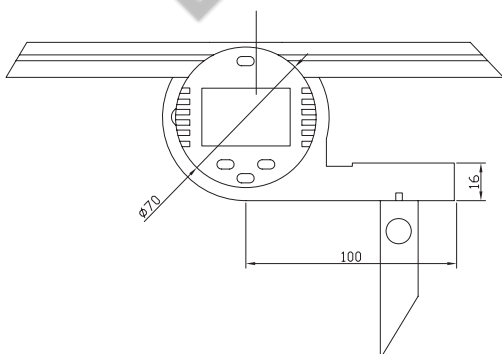
Digital Protractor

490 Series



490-15-2

LCD Display Screen



FEATURES

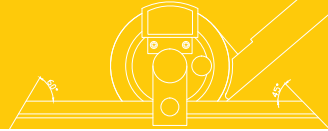
- Resolution: 10"
- Measuring Range: 0-360°
- Range selection: 1 x 360°, 2 x 180°, 4 x 90°
- Dual reading LCD display arc minutes / decimal degrees
- With fine adjustment
- Preset function
- Accuracy: ± 5 min

STANDARD ACCESSORIES

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

SPECIFICATIONS

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



Depth and Angle Gauges

607 Series



FEATURES

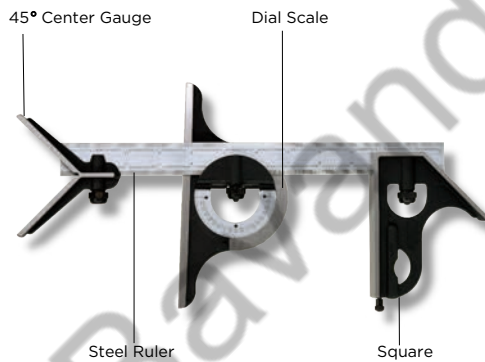
- Hardened steel head with 2-1/2" base
- Angles: 30°, 45°, 60° both sides
- Stainless steel blade: 6" x 7/32" with 32nds and 64ths graduations
- Rod: Non-graduated, for holes under 3/32" diameter

SPECIFICATIONS

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

Combination Square Sets

490 Series



490-20-8

FEATURES

- Graduation:
 - Protractor: 1°
 - Blade: 1mm, 64ths, 32nds, 1/2mm
- Blades are hardened and tempered for durability
- Square head has level and pointed attachment for hand scribing
- Micro-fine blade graduations
- Gauge heads are hardened cast finished in baked enamel with exception of the measurement faces

SPECIFICATIONS

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



Steel Squares

639 Series



639-23-0



639-24-4

FEATURES

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

SPECIFICATIONS

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

Granite Squares

639 Series



639-03-0

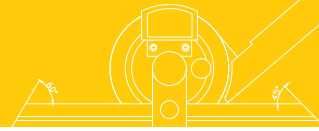
FEATURES

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

SPECIFICATIONS

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

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



Straight Knife Edges

639 Series



639-73-0

FEATURES

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

SPECIFICATIONS

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

5-pcs Square Set

639 Series



639-00-8

SPECIFICATIONS

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

Die Makers Square Set

606 Series



FEATURES

- Use for precise miniature layouts
- Hardened and ground with very fine finish extremely accurate
- Set includes: 3 hardened beveled edge squares; plus 1- 1/ 2" triangular straight edge with handle complete in a fitted case
- Straight edge sides are machined in the middle for clearance of burs and dirt

| Specifications of Squares: Beam | Blade |
|---------------------------------|------------|
| 1-15 / 16" | 2-15 / 16" |
| 1-1 / 8" | 1-9 / 16" |
| 3 / 4" | 1" |

SPECIFICATIONS

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



Cast Vee Blocks

607 Series



FEATURES

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

SPECIFICATIONS

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

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

607 Series



FEATURES

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

SPECIFICATIONS

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

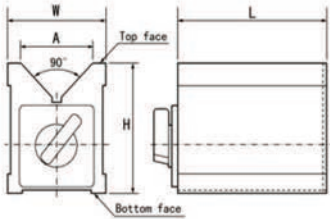


Magnetic V-Blocks

609 Series



609-13-0



FEATURES

- Workpiece can be placed on v-shape or top surface
- The rotary knob switches natural magnet on or off
- The precision surfaces and the bottom V are securely fastened to the ferrous work piece or machine table when the rotary knob is in the on position

SPECIFICATIONS

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

V-Blocks with Clamp

606 Series



606-60-0



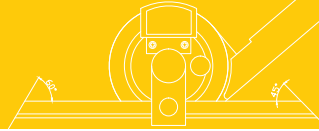
606-60-6

FEATURES

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

SPECIFICATIONS

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



Angle Gauges

605 Series



FEATURES

- Material: Satin finished Stainless Steel
- Each gauge has eight precision radii
- The contour of each gauge has: 50% of primary angle and complementary angles including internal and external angles
- Various purposes including alignment of the lathe tool bit and for checking cutting tool geometry

SPECIFICATIONS

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

Individual Gauges Included

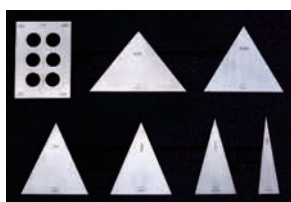
| Primary Angle | 1/2 Primary Angle | Accuracy | Complementary Angle | Primary Angle | 1/2 Primary Angle | Accuracy | Complementary Angle |
|---------------|-------------------|----------|---------------------|---------------|-------------------|----------|---------------------|
| 5° D | 2°30' | ±5' | 175° D | 50° D | 25° D | ±5' | 130° D |
| 10° D | 5° D | ±5' | 170° D | 55° D | 27°30' | ±5' | 125° D |
| 15° D | 7°30' | ±5' | 165° D | 60° D | 30° D | ±5' | 120° D |
| 20° D | 10° D | ±5' | 160° D | 65° D | 32°30' | ±5' | 115° D |
| 25° D | 12°30' | ±5' | 155° D | 70° D | 35° D | ±5' | 110° D |
| 30° D | 15° D | ±5' | 150° D | 75° D | 37°30' | ±5' | 105° D |
| 35° D | 17°30' | ±5' | 145° D | 80° D | 40° D | ±5' | 100° D |
| 40° D | 20° D | ±5' | 140° D | 85° D | 42°30' | ±5' | 95° D |
| 45° D | 22°30' | ±5' | 135° D | 90° D | 45° D | ±5' | 90° D |



605-06-0



605-06-2



605-06-3

FEATURES

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

SPECIFICATIONS

10 pcs Set

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

2 pcs Set

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

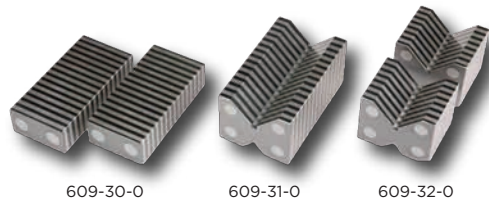
7 pcs Set

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



Magnetic Induction Block

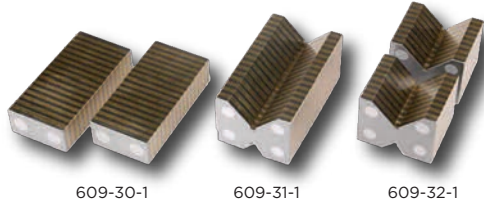
609 Series



609-30-0

609-31-0

609-32-0



609-30-1

609-31-1

609-32-1

FEATURES

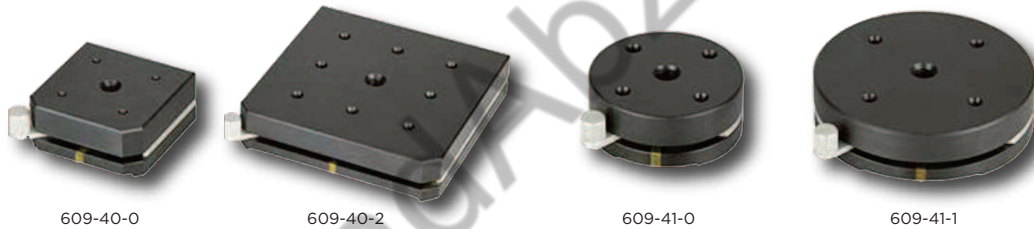
- Used to extend magnetic force to hold bar, or irregular shaped work pieces

SPECIFICATIONS

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

Thin Type Magnetic Holder

609 Series

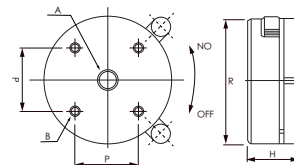
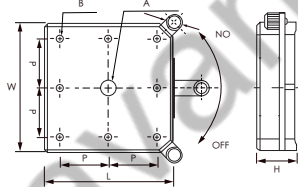


609-40-0

609-40-2

609-41-0

609-41-1



FEATURES

- Suitable as a base for securing jigs and measuring equipment on an iron surface plate or machine table and as a temporary base for laser and optical measurement
- Since these bases are of switchover type permanent magnetic bases, they are recommended for applications that require fine adjustment and accuracy
- Simple ON/ OFF operation with the lever
- Thin and powerful magnetic force
- Dry specification

SPECIFICATIONS

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

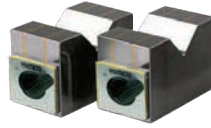


Magnetic V - Block

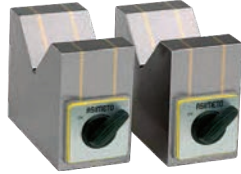
609 Series



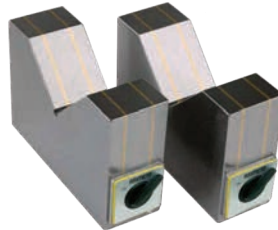
609-20-1



609-20-0



609-21-0



609-22-0

FEATURES

- Used for Grinding, Light Milling, Drilling & Inspection of Round & Square Jobs
- The top (V surface) and the end face can be adsorbed
- The switch lever can be loaded and unloaded
- Constitute a set of two

SPECIFICATIONS

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



Thread Pitch Gauges

605 Series



FEATURES

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

SPECIFICATIONS

Metric Screw Pitch Gauges (60°)

| Range | No. of Leaves | Composition of Leaves | Code No. |
|--------------|---------------|--|----------|
| 0.25 - 2.5mm | 28 | 0.25 - 0.90mm by 0.05mm , 1 - 2mm x 0.1mm step , Plus 1.25, 1.75, 2.5mm | 605-50-0 |
| 0.35 - 6mm | 22 | 0.35, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6mm, and 60° angle gauge | 605-51-0 |
| 0.4 - 7mm | 21 | 0.4, 0.5, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm | 605-52-0 |
| 0.4 - 7mm | 18 | 0.4, 0.5, 0.75, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm | 605-53-0 |

Unified Screw Pitch Gauges (60°)

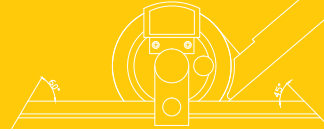
| Range | No. of Leaves | Composition of Leaves | Code No. |
|------------|---------------|---|----------|
| 4 - 42 TPI | 30 | 4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42 TPI | 605-50-2 |
| 4 - 84 TPI | 51 | 4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84 TPI | 605-51-2 |

Metric and Unified Screw Pitch Gauges (60°)

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

Whitworth Screw Pitch Gauges (55°)

| Range | No. of Leaves | Composition of Leaves | Code No. |
|------------|---------------|---|----------|
| 4 - 42 TPI | 30 | 4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 19, 20, 22, 24, 26, 27, 28, 30, 32, 36, 38, 40, 42 TPI | 605-50-5 |
| 4 - 60 TPI | 28 | 4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 22, 24, 25, 26, 28, 30, 32, 34, 36, 40, 48, 60 TPI | 605-51-5 |



Radius Gauges

605 Series



605-42-0

FEATURES

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

SPECIFICATIONS

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

Center Gauge

605 Series



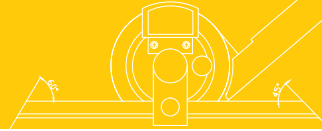
FEATURES

- Precision machined hardened steel
- Profile is for 60 degree threads
- Scales markings:
Side 1 with 14ths and 20ths graduations
Side 2 with 24ths and 32ths graduations

SPECIFICATIONS

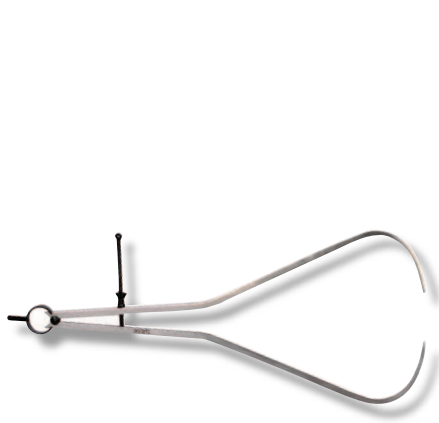
Code No.

605-60-0



Spring Dividers and Calipers

606 Series



606-32-2



606-32-4



606-32-0

FEATURES

- Manufactured from hardened durable material
- Contact surfaces are rounded

SPECIFICATIONS

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



Digital Protractors - Level Type

490 Series



490-16-0

FEATURES

- This protractor provides an immediate digital reading of any angle in a full circle with 0°-90°-0°-90°-0° readings. The machined Aluminum frame is rigid and light with a precise platform that allows the sensor and its microprocessor circuit to provide high accuracy throughout the entire 360° range
- Four 90° quadrants for display purposes
- Calibrates in minutes without any special fixtures
- HOLD button for freezing a reading in an unreadable position
- ABS/ZERO button allows 2 measuring modes, Standard and Alternate Reference
- V-grooves on top and bottom for use on curved surfaces
- Angle displayed upright regardless of protractor position
- Item #490-16-2 comes with magnet on base, which is helpful for fixing

STANDARD ACCESSORIES

- Battery, Warranty card, Instruction manual

SPECIFICATIONS

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



Precision Levels

606 Series



606-53-0



606-51-4

FEATURES

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

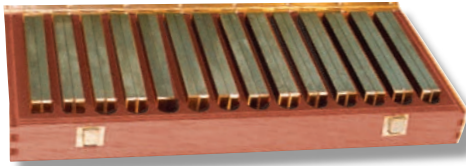
SPECIFICATIONS

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

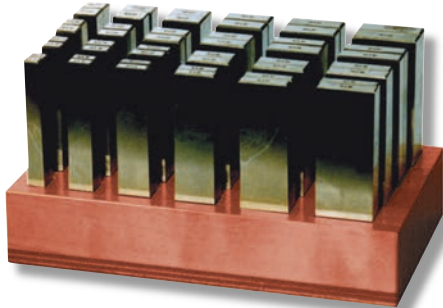


High Precision Metric Parallels

663 Series



663-02-0



663-12-0

FEATURES

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

SPECIFICATIONS

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

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

Precision Parallel Sets

607 Series

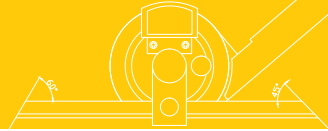


FEATURES

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

SPECIFICATIONS

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



Granite Surface Plates

630 / 631 Series



FEATURES

- Material: Natural granite black in colour provides stability and longevity
- Each surface plate is shipped with a certificate of accuracy which guarantees its accuracy
- Granite surface plates are more common than cast iron plates due to the positive attributes
- Granite plate stands is not included

SPECIFICATIONS

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

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

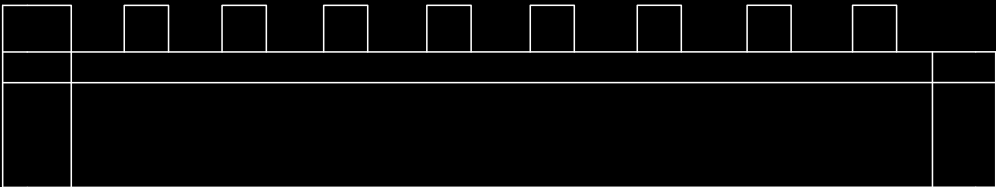
Granite Plate Stands

638 Series

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

Gauges

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



Rectangular Gauge Block Sets

650 Series

FEATURES

- Individual serial numbers on each block, regardless of grade
- A complete certificate of calibration traceable to the NIST or DIN showing the deviation of each block
- Mirror polished surfaces provide superior wringing characteristics



650-63-0

SPECIFICATIONS

Inch

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

Metric

1 mm base set

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



Rectangular Gauge Block Sets

650 Series

Metric 1 mm base set

| Blocks Per Set | Blocks Included In Set | Grade | Steel | Ceramic |
|----------------|--|-------|----------|----------|
| | | | Code No. | Code No. |
| 56 | 1 Block: 0.5mm 9 Block: 1.001- 1.009mm x 0.001mm step 9 Block: 1.01- 1.09mm x 0.01mm step 9 Block: 1.1- 1.9mm x 0.1mm step 24 Block: 1- 24mm x 1mm step 4 Block: 25 - 100mm x 25mm step | 0 | 650-20-0 | 650-70-0 |
| | | 1 | 650-20-1 | 650-70-1 |
| | | 2 | 650-20-2 | 650-70-2 |
| 47 | 1 Block: 1.005mm 20 Block: 1.01- 1.20mm x 0.01mm step 7 Block: 1.3 - 1.9mm x 0.1mm step 9 Block: 1- 9mm x 1mm step 10 Block: 10 - 100mm x 10mm step | 0 | 650-14-0 | 650-64-0 |
| | | 1 | 650-14-1 | 650-64-1 |
| | | 2 | 650-14-2 | 650-64-2 |
| 47 | 1 Block: 1.005mm 9 Block: 1.01 - 1.09mm x 0.01mm step 9 Block: 1.1 - 1.9mm x 0.1mm step 24 Block: 1 - 24mm x 1mm step 4 Block: 25 - 100mm x 25mm step | 0 | 650-15-0 | 650-65-0 |
| | | 1 | 650-15-1 | 650-65-1 |
| | | 2 | 650-15-2 | 650-65-2 |
| 46 | 9 Block: 1.001- 1.009mm x 0.001mm step 9 Block: 1.01- 1.09mm x 0.01mm step 9 Block: 1.1 - 1.9mm x 0.1mm step 9 Block: 1- 9mm x 1mm step 10 Block: 10 - 100mm x 10mm step | 0 | 650-21-0 | 650-71-0 |
| | | 1 | 650-21-1 | 650-71-1 |
| | | 2 | 650-21-2 | 650-71-2 |
| 34 | 1 Block: 1.0005mm 9 Block: 1.001- 1.009mm x 0.001mm step 9 Block: 1.01 - 1.09mm x 0.01mm step 9 Block: 1.1- 1.9mm x 0.1mm step 6 Block: 1- 5 x 1mm step, 10mm | 0 | 650-22-0 | 650-72-0 |
| | | 1 | 650-22-1 | 650-72-1 |
| | | 2 | 650-22-2 | 650-72-2 |
| 32 | 1 Block: 1.005mm 9 Block: 1.01 - 1.09mm x 0.01mm step 9 Block: 1.1 - 1.9mm x 0.1mm step 9 Block: 1- 9mm x 1mm step 4 Block: 10mm, 20mm, 30mm, 50mm | 0 | 650-16-0 | 650-66-0 |
| | | 1 | 650-16-1 | 650-66-1 |
| | | 2 | 650-16-2 | 650-66-2 |
| 24 | 9 Block: 1.01 -1.09mm x 0.01mm step 9 Block: 1.1 - 1.9mm x 0.1mm step 5 Block: 1 - 5 mm x 1mm step 1 Block: 10 mm | 0 | 650-23-0 | 650-73-0 |
| | | 1 | 650-23-1 | 650-73-1 |
| 19 | 9 Block: 1.1 - 1.9mm x 0.1mm step 5 Block: 1- 5 mm x 1mm step 2 Block: 10 - 20 mm x 10mm step 3 Block: 25mm, 50mm, 100 mm | 0 | 650-24-0 | 650-74-0 |
| | | 1 | 650-24-1 | 650-74-1 |
| 10 | 5 Block: 1 - 5 mm x 1mm step 2 Block: 10 - 20 mm x 10mm step 3 Block: 25mm, 50mm, 100 mm | 0 | 650-25-0 | 650-75-0 |
| | | 1 | 650-25-1 | 650-75-1 |

Metric

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

Rectangular Steel Gauge Block Sets

650 Series

Metric 2 mm base Set

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

Rectangular Tungsten Steel Gauge Block Sets

650 Series

| Blocks Per Set | Blocks Included In Set | Grade | Code No. |
|----------------|---|-------|----------|
| 87 | 9 Block: 1.001- 1.009mm x 0.001mm step 49 Block: 1.01- 1.49mm x 0.01mm step 19 Block: 0.5 - 9.5mm x 0.5mm step 10 Block: 10 - 100mm x 10mm step | 0 | 650-93-0 |
| | | 1 | 650-93-1 |
| 103 | 1 Block: 1.005mm 49 Block: 1.01- 1.49mm x 0.01mm step 49 Block: 0.5 - 24.5mm x 0.5mm step 4 Block: 25 - 100mm x 25mm step | 0 | 650-92-0 |
| | | 1 | 650-92-1 |
| 112 | 1 Block: 1.0005mm 9 Block: 1.001- 1.009mm x 0.001mm step 49 Block: 1.01- 1.49mm x 0.01mm step 49 Block: 0.5 - 24.5mm x 0.5mm step 4 Block: 25 - 100mm x 25mm step | 0 | 650-97-0 |
| | | 1 | 650-97-1 |

Inch Individual Rectangular Gauge Blocks

65X Series



651-87-0

FEATURES

- ASME / DIN / JIS / GB Standard
- ASME Grade 0 is available for both Steel and Ceramic individuals
- ASME Grade 1 is only available for Steel

SPECIFICATIONS

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

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

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

Metric Individual Rectangular Gauge Blocks

653 / 654 Series

FEATURES

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

SPECIFICATIONS

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

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

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



Metric Individual Rectangular Ceramic Gauge Blocks 657 / 658 Series

FEATURES

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

SPECIFICATIONS

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

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

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

Caliper Calibration Gauge Sets

659 Series



659-31-1

FEATURES

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

SPECIFICATIONS

For DIN Standard

| Individual Blocks in Set | Grade | Code No. | |
|--|---------|----------|----------|
| 30.0mm, 41.3mm, 131.4mm, Master Ring: Ø4.0mm, Ø25.0mm | 0-150mm | 1 | 659-31-1 |
| 41.3mm, 131.4mm, 243.5mm, Master Ring: Ø4.0mm, Ø25.0mm | 0-300mm | 0 | 659-32-0 |

For GB Standard

| Individual Blocks in Set | Grade | Code No. | |
|--|---------|----------|----------|
| 10mm, 20mm, 20mm, 41.2mm, 81.5mm, 121.8mm | 0-150mm | 1 | 659-41-1 |
| 10mm, 20mm, 20mm, 51.2mm, 121.5mm, 191.8mm | 0-200mm | 1 | 659-42-1 |
| 10mm, 20mm, 20mm, 101.2mm, 201.5mm, 291.8mm | 0-300mm | 1 | 659-43-1 |
| 10mm, 20mm, 20mm, 41.2mm, 51.2mm, 81.5mm, 101.2mm, 121.5mm, 121.8mm, 191.8mm, 201.5mm, 291.8mm | 0-300mm | 1 | 659-40-1 |

Micrometer Calibration Gauge Sets

659 Series



659-71-1

FEATURES

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

SPECIFICATIONS

For DIN Standard

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

For GB Standard

| Blocks in Set | Range | Grade | Steel Set | Ceramic Set |
|--|---------|-------|-----------|-------------|
| | | | Code No. | Code No. |
| 5.12mm, 10.24mm, 15.36mm, 21.5mm, 25.0mm | 0-25mm | 1 | 659-22-1 | 659-72-1 |
| 5.12mm, 10.24mm, 15.36mm, 21.5mm, 25.0mm, 30.12mm, 35.24mm, 40.36mm, 46.5mm, 50.0mm, 55.12mm, 60.24mm, 65.36mm, 71.5mm, 75.0mm, 80.12mm, 85.24mm, 90.36mm, 96.5mm, 100mm | 0-100mm | 1 | 659-23-1 | 659-73-1 |

Gauge Block Accessories

660 Series

FEATURES

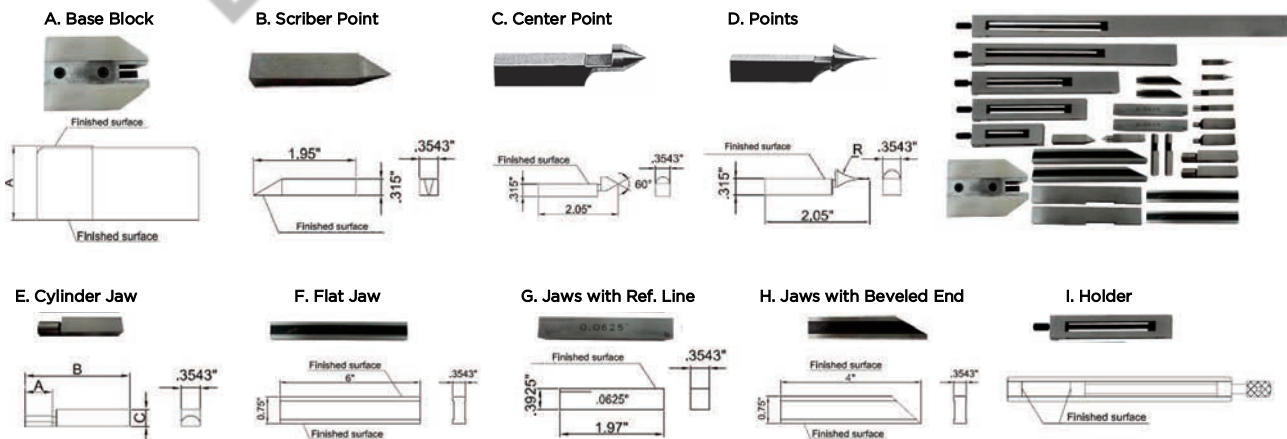
- The gauge block accessory set is used to firmly connect rectangular gauge blocks with the gauge holding devices. A series of universal precision measuring surfaces and base are provided to increase the measurement flexibility

SPECIFICATIONS

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



| Inch | | | | 27 pcs Set | 14 pcs Set | |
|------|-----------------------|--------------------------------|------------------------|--------------------|--------------------|-----------------|
| | | | | 660-01-2 | 660-02-1 | |
| # | Description/Use | Dimension | Accuracy | Individuals in Set | Individuals in Set | Code No. |
| A | Base Block | 4 x 2-3/4 x 1.7" | Height: ±.0002" | 1 pc | - | 660-05-5 |
| B | Scriber Point | 1.950" Length | Flatness: ±.00002"/2" | 1 pc | - | 660-13-1 |
| C | Center Point | 2.05" Length | Concentricity: ±.0004" | 1 pc | - | 660-13-4 |
| D | Points | 2.05" Length | Concentricity: ±.0002" | 1 pair | - | 660-13-5 |
| E | Cylinder Jaws | Radius x A x B x C | Radius: ±.00003" | | | |
| | | .1"x.236"x1.58"x.315" | Pair: ±.00004" | 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: ±.00004" | 1 pair | - | 660-13-7 |
| G | Jaws with Ref. Line | .0625" Ref. line | Line Height: ±.0002" | 1 pair | - | 660-14-6 |
| H | Jaws with Beveled End | .750" Height, 4" Length | Flatness: ±.00002"/2" | 1 pair | 1 pair | 660-14-8 |
| | | .750" Height, 6" Length | | 1 pair | 1 pair | 660-14-9 |
| I | Holders | 2.250" Capacity, 4.175" Length | Working surfaces | 1 pcs | 1 pc | 660-15-1 |
| | | 4.000" Capacity, 6.5" Length | accurately ground | 1 pc | - | 660-15-2 |
| | | 6.000" Capacity, 8.5" Length | and lapped | 1 pc | 1 pc | 660-15-3 |
| | | 10.000" Capacity, 12" Length | | 1 pc | - | 660-15-4 |



Check Masters

660 / 661 Series



661-12-0

FEATURES

- Check masters are used to provide the incremental positioning error during the calibration of Coordinate Measuring Machines or machine tools
- Can be used in either vertical or horizontal position
- The individual gauging surfaces are made of zirconium based ceramic that resist corrosion and provide stability to size change over time



660-12-0

SPECIFICATIONS

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

Customized pitch for special purpose is available also

Optical Flats and Parallels

605 Series



605-51-1

FEATURES

- Used to verify the flatness and parallelism of micrometer measuring faces
- Each set has four individual thicknesses as per chart
- Flatness: 0.1µm. Parallelism: 0.2µm

SPECIFICATIONS

Optical Flats

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

Optical Parallels Diameter: 30mm

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



605-52-1

Plug Gauges and Ring Gauges

670 / 675 Series



670-10-7



675-10-0

FEATURES

- Hardened steel
- Plug Gauge Accuracy according to DIN 7162/7164
- Plug Gauge Sizes according to DIN 2245
- Ring Gauge Accuracy according to DIN 2250

SPECIFICATIONS

Plug Gauges

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

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

Ring Gauge

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

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

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

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

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

Thread Plug Gauges and Ring Gauges

68X Series



682-14-5



685-14-5



686-14-5

FEATURES

- ISO-Metric Thread
- Per DIN 13

SPECIFICATIONS

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

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

Thread Plug Gauges and Ring Gauges

68X Series

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

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

Whitworth Pipe Thread Plug Gauges and Ring Gauges 690 Series

- Right hand, DIN ISO 228

SPECIFICATIONS

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

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

NPT Thread Plug Gauges and Ring Gauges 690 Series

- NPT ANSI/ASME B.1.20.1*



690-45-3



690-46-1

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

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

Inch Master Setting Ring Gauges 679 Series

FEATURES

- Hardened steel

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



ANSI Inch Thread Plug Gauges and Adjustable Ring Gauges

695 Series



FEATURES

- Aluminum handle
- ANSI Standard

SPECIFICATIONS

| Size | Master Gauge "GO" (Class 2A) Code No. | Master Gauge "NO GO" (Class 2A) 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 |



ANSI Metric Thread Plug Gauges and Ring Gauges 696 Series

FEATURES

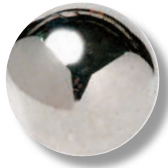
- Aluminum handle
- ANSI Standard

SPECIFICATIONS

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

Individual Inspection Gauge Balls

679 Series



FEATURES

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

SPECIFICATIONS

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

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

Precision Inspection Gauge Ball Sets

679 Series



FEATURES

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

SPECIFICATIONS

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

36 pcs Round Space Block Set

679 Series



FEATURES

- For quickly setting stops and set ups in lathes, milling machines, drill presses, etc. Also excellent for setting sine bars
- Each block marked for size. Overall diameter: .750"
- 1/4"-28 threaded hole through center of block
- Working surfaces hardened to HRC 58-60
- Working surfaces precision ground and lapped to $\pm .000050"$
- 4 connecting screws supplied to form desired length

SPECIFICATIONS

| Description | Included | Code No. |
|-------------|---|----------|
| 36 PCS Set | .050, .060, .0625, .070, .080, .090, .100, .101, .102, .103, .104, .105, .106, .107, .108, .109, .110, .120, .125, .130, .140, .150, .160, .170, .180, .190, .200, .300, .400, .500, .600, .700, .800, .900, 1.00 (2 ea.) | 679-95-0 |

Individual Pin Gauges



SPECIFICATIONS

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

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

Pin Gauge Sets

697 Series



FEATURES

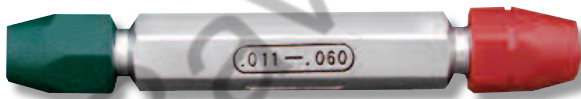
- For quick and accurate measurements. Measure hole sizes, slot widths, calculate distances between holes, use as Go/NoGo gaging, etc.
- Furnished in attractive molded plastic case.
- Class ZZ guaranteed to .0002"/0.005 mm tolerance limit.
- Inspected with equipment which has been calibrated and is traceable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

SPECIFICATIONS

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

Pin Gauge Handles

697 Series



FEATURES

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

SPECIFICATIONS

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

Pin Gauge Sets

698 \ 699 Series

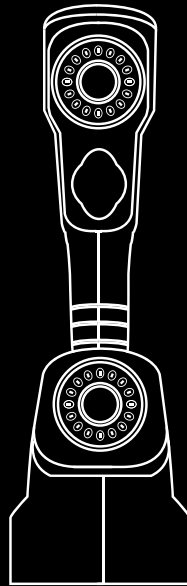
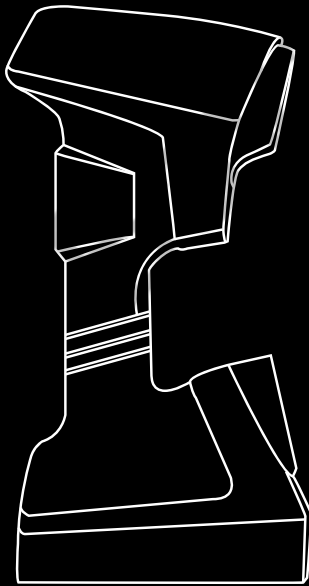
SPECIFICATIONS

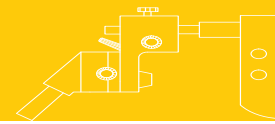
| Range | Step | Length | Accuracy |
|-----------------------|--------|--------|----------|
| 0.05 - 0.09mm step | 0.01mm | 5-10mm | ±0.5µm |
| 0.10 - 0.19mm step | 0.01mm | 40mm | ±0.8µm |
| 0.200 - 0.999mm step | 0.01mm | 40mm | ±0.8µm |
| 1.000 - 10.000mm step | 0.01mm | 50mm | ±0.8µm |
| 10.01 -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

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

Testers & Optical Instrument

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





Archer Portable 3D scanner



FEATURES

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

STANDARD SCANNING MODE (RED LASER)

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

FINE SCANNING MODE (BLUE LASER)

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

Note: Only available for Ultra series



Standard 2D Vision Measuring System (Manual)



MVS2010

FEATURES

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

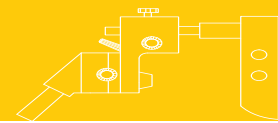
SPECIFICATIONS

| Code No. | 647-01-0 | 647-02-0 | 647-03-0 | 647-04-0 | 647-05-0 |
|---|--|----------------|----------------|-----------------|-----------------|
| Model No. | MVS2010 | MVS2515 | MVS3020 | MVS4030 | MVS5040 |
| Metal Table | 408x308mm | 408x308mm | 458x358mm | 608x470mm | 708x470mm |
| Glass Table | 306x198mm | 306x198mm | 356x248mm | 456x348mm | 556x348mm |
| X/Y-axis Travel | 200x100mm | 250x150mm | 300x200mm | 400x300mm | 500x400mm |
| Dimension (WxDxH) | 790x617x1000mm | 790x617x1000mm | 838x667x1000mm | 1002x817x1043mm | 1002x867x1043mm |
| Net Weight | 175Kg | 175Kg | 185Kg | 350Kg | 380Kg |
| Z-axis Travel | High-Precision Linear Guide , Working Travel 200mm | | | | |
| X/Y/Z-axis Travel | 0.0005mm | | | | |
| X/Y-axis Accuracy* | $\leq 2.5+L/200$ (μ m) | | | | |
| Repeatability | 2 μ m | | | | |
| Base and Pillar | High Accuracy Marble | | | | |
| Illumination System (Software Adjustment) | Surface: Stepless Adjustable 4-Ring 8-Division LED Cold Illumination | | | | |
| | Contour: LED Parallel Illumination | | | | |
| | LED Laser Navigation Lights | | | | |
| CCD Camera | High Resolution 700TV Color CCD Camera | | | | |
| Zoom lens* * | 6.5X High Resolution Detented Zoom Lens | | | | |
| | Magnification: 0.7X-4.5X; Video Magnification: 26X-172X | | | | |
| Working Environment | Temperature: 20°C \pm 2°C, Change Range < 2°C/hr | | | | |
| | Humidity: 30% - 80% | | | | |
| | Vibration< 0.002g, <15Hz | | | | |

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

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

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



Standard 2D Vision Measuring System (CNC)



CVS5040B

FEATURES

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

SPECIFICATIONS

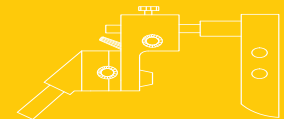
| Code No. | 647-03-1 | 647-04-1 | 647-05-1 | 647-06-1 | 647-08-1 |
|---------------------------|---|---|---|------------------|------------------|
| Model No. | CVS3020 | CVS4030 | CVS5040B | CVS6050B | CVS8060B |
| X/Y-axis Travel | 300x200mm | 400x300mm | 500x400mm | 600x500mm | 800x600mm |
| Load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

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

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

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

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



Multi Sensor Measuring System (CNC)



CVS5040B

FEATURES

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

SPECIFICATIONS

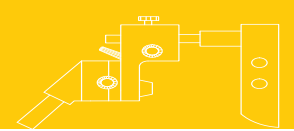
| Code No. | 647-03-1P | 647-04-1P | 647-05-1P | 647-06-1P | 647-08-1P |
|---------------------------|---|---|---|------------------|------------------|
| Model No. | CVS3020P | CVS4030P | CVS5040BP | CVS6050BP | CVS8060BP |
| X/Y-axis Travel | 300x200mm | 400x300mm | 500x400mm | 600x500mm | 800x600mm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

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

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

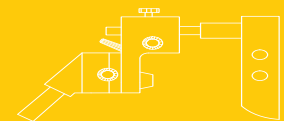
Customers can choose 0.5X or 2X optional objective, and realize image magnification: 13X - 86X or 52X - 344X.

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



3D Image Coordinate Measuring Machine





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

FEATURES

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

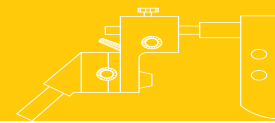
SPECIFICATIONS

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

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

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

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



2D Height Gauge

Value^{Plus} 300/600

628 Series



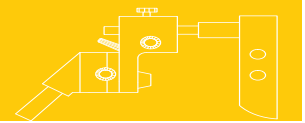
FEATURES

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

SPECIFICATIONS

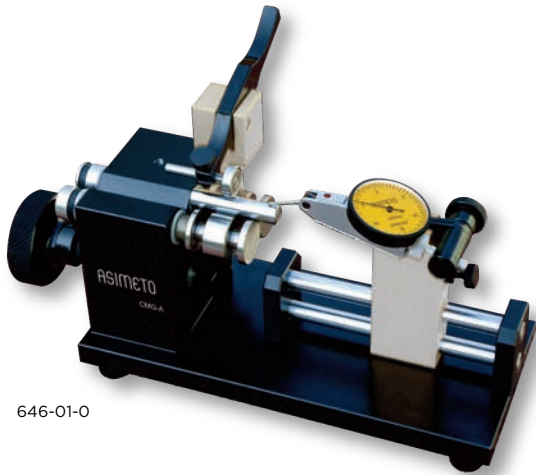
| | Value ^{Plus} 300 | Value ^{Plus} 600 |
|-------------------------------|-------------------------------|---------------------------|
| Item Code | 628-12-0 | 628-24-0 |
| Measuring Range (in/mm) | 12" / 300 | 24" / 600 |
| Extended Measuring Range (mm) | 570 | 870 |
| Probe Holder Diameter (mm)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

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



Concentricity Gauges

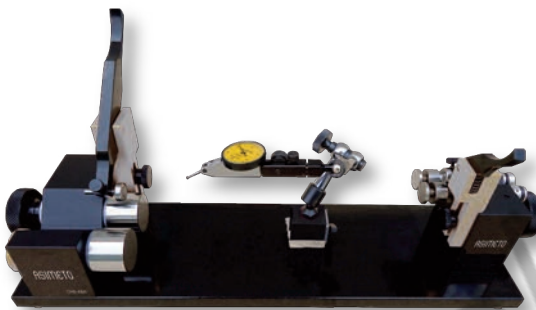
646 Series



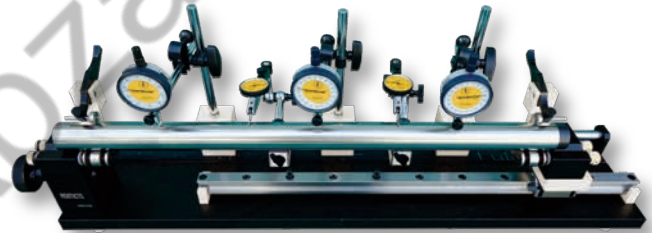
646-01-0

FEATURES

- Precision structure with ball bearing slide
- equipped with Asimeto measuring tools or together with universal magnetic base
- light and easy to be used to measure concentricity / eccentricity for parts such as shaft, tube, bush, screw etc
- Dial test indicator and universal magnetic base are not included
- T Series



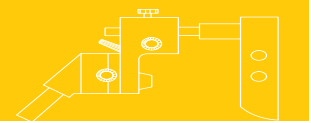
646-04-0



646-12-0

SPECIFICATIONS

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



Vertical Profile Projectors

641 Series



641-01-0

FEATURES

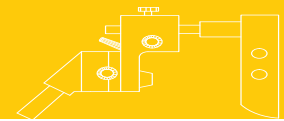
- Used to inspect the profiles of a wide variety of parts and components
- Designed to provide an excellent quality image with accurate magnification
- The error of the contour measuring is under 0.08% deviation
- A convenient foot switch transfers the coordinate data to the data processing system
-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

STANDARD ACCESSORIES

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

SPECIFICATIONS

| Code No. | 641-01-0 / 641-01-1 | | | 641-02-0 / 641-02-1 | | | |
|----------------------------|--|---|--------------|---------------------------|---|--------------|--------------|
| Imaging Direction | Obverse / Reverse Image | | | Obverse / Reverse Image | | | |
| Working Table | Stage Size (mm) | 340 x 152 | | | 404 x 228 | | |
| | Glass Table Size (mm) | 196 x 96 | | | 260 x 160 | | |
| | X-Axis Travel (mm) | 150 | | | 200 | | |
| | Y-Axis Travel (mm) | 50 | | | 100 | | |
| | Z-Axis Travel (mm) | 90 (for focusing) | | | 90 (for focusing) | | |
| | Measuring Accuracy | 4.0+L/25 Qm L: Measuring Length (mm) | | | 4.0+L/25 Qm L: Measuring Length (mm) | | |
| | Resolution (X/Y-axis) | 0.001 mm (1µm) or 0.0005 mm (0.5µm) | | | 0.001 mm (1Qm) or 0.0005 mm (0.5µm) | | |
| Projector Screen | Dimension | 12" (Ø312 mm), usable range > Ø300 mm | | | 12" (Ø312 mm), usable range > Ø300 mm | | |
| | Rotary Range | 0°-360° | | | 0°-360° | | |
| | Angle Resolution | 1' or 0.01° | | | 1' or 0.01° | | |
| Objective Lens | Magnification | 10X (Standard) | 20X (Option) | 50X (Option) | 10X (Standard) | 20X (Option) | 50X (Option) |
| | Object View (mm) | Ø30 | Ø15 | Ø6 | Ø30 | Ø15 | Ø6 |
| | Working Distance (mm) | 77.7 | 44.3 | 38.4 | 77.7 | 44.3 | 38.4 |
| Data Processing System | DC-3000 Multi-function Data Processing System: Coordinate Skew, mm/Inch Conversion, ABS/INC Conversion, Zero Setting, Calculation, 0°, 90°, 270°, 360° Conversion, Linear Compensation | | | | | | |
| Illumination | Transmission and Reflection Light Source: 24V/150W-halogen Lamp | | | | | | |
| Power | 110V/220V (AC), 50/60Hz, 400W Total Power | | | | | | |
| Light Source Cooling | Forced air Cooling | | | | | | |
| Instruments Dimension (mm) | 770 x 550 x 1100 | | | 770 x 550 x 1100 | | | |
| Weight (kgs) | 130 | | | 160 | | | |
| Option | Rotary Table | | | Code No.: 641-05-0 | | | |
| | Swivel Center Support | | | Code No.: 641-05-1 | | | |
| | Edge Detector | | | Code No.: 641-05-2 | | | |



Surface Roughness Tester 645 Series



FEATURES

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

SPECIFICATIONS

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

STANDARD ACCESSORIES

- 3.5-inch color graphic touch screen, provide high brightness, wide viewing angle.
- Display full information, intuitive and graphical displays all parameters.
- DSP chip control and data processing, high speed, low power consumption.
- 4 Profile Filter: Gauss RC PC-RC D-P.
- Multi parameters: Ra、Rz、Rq、Rt、Rp、Rv、R3z、R3y、Rz (JIS)、Rs、Rsk、Rsm、Rku、Rc、Ry、Rmax、Rmr、RPa、Rk、Rpk、Rvk、Mr1、Mr2.
- Complies with the following standards: ISO、DIN、ANSI、JIS.
- Support Bluetooth printer and mobile APP wireless operation.
- Large capacity data storage, can store 100 item of raw data and measured profile.
- With automatic sleep, automatic shutdown power-saving features.
- Can connected to the computer and printer.
- Optional accessories include curved surface sensor, deep groove sensor, small hole sensor, measurement stand, Sleeve of sensor, printer and analysis software.

OPTIONAL ACCESSORIES

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

Surface Roughness Standards 506 Series

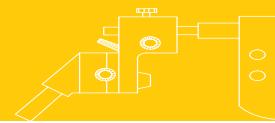


FEATURES

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

SPECIFICATIONS

| Code No. | | 506-01-0 |
|----------|------------------|---|
| Qty. | Contents | Roughness |
| 2 pcs | Flat Lapping | 0.05; 0.1µm (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 | 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.

STANDARD ACCESSORIES

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

SPECIFICATIONS

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

Ultrasonic Thickness Gauge

506 Series

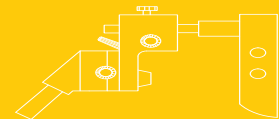


FEATURES

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

SPECIFICATIONS

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



Impact Hardness Testers

640 Series



FEATURES

- Large screen with color display, allows for clear display of all functions and parameters
- Hardness test can be taken at any angle including inverted
- A wide measuring range supports the hardness of all metallic materials. Hardness results are directly displayed in HRB, HRC, HV, HB, HS, HL hardness scales.
- Six impact devices are available for special application with automatic impact device recognition
- Diameter of carbide ball: 3mm.
- Large capacity memory storage of 500 sub groups. Stored information including single measured value, mean value, test data, impact direction, impact times, material and hardness scale are available
- Support two languages display, English and Chinese
- Upper and lower limit can be preset. An audio alarm will automatically sound when the reading is outside of the preset limits
- Battery voltage information is displayed including the charge status
- Calibration function is available.
- USB1.1 port allows for information to be uploaded directly to a pc
- High speed thermal printer allows for the readings to be immediately printed
- 6V Ni-MH rechargeable battery are supplied. The batteries can be charged with the integrated charger. Up to 150 hours of continuous operation battery life between charges (eL off and no printing)
- Automatic power off after five minutes

STANDARD ACCESSORIES

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

SPECIFICATIONS

| Range | Accuracy | Application Range | Impact devices | Impact Capacity | Code No. |
|---|------------------------------|---|----------------|-----------------|----------|
| (170-960) HLD (17-68.5) HRC (19-651) HB | HLD: ±5 HRC: ±1 HB: ±4 | Test the normal smooth, flat surface | D | 11 Nmm | 640-17-1 |
| | | Test hole or hollow cylindrical | DC | 11 Nmm | 640-17-2 |
| | | Test small, light, thin parts and surface of hardened layer | C | 2.7 Nmm | 640-17-3 |
| | | Test groove or re-entrant surface | D+15 | 11 Nmm | 640-17-4 |
| | | Test slender narrow groove or hole | DL | 11 Nmm | 640-17-5 |
| | | Test large, thick, heavy and rough surface steel | G | 90 Nmm | 640-17-6 |

Shore Scale A Durometer

640 Series

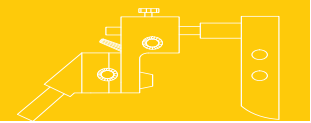


FEATURES

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

SPECIFICATIONS

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



Rockwell Type Hardness Testers

640 Series



640-01-0



640-02-0

FEATURES

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

STANDARD ACCESSORIES

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

SPECIFICATIONS

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

Digital Twin Rockwell Hardness Tester

640 Series

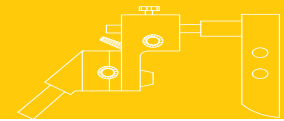


FEATURES

- Twin tester--Regular Rockwell & Rockwell Superficial hardness for metal and plastic material
- Horizontal protrudent indenter design, also suitable for internal and external testing
- Testing on surfaces difficult to reach. Testing internal surface of rings and tubes with diameters over 23mm
- Testing force is set automatically according to testing scale
- Provided with many features such as high measuring precision, wide measuring range with 30 Rockwell scales
- Measuring results are digitally displayed and can be printed, or transmitted to external computer automatically by USB or RS-232 cable
- Test value can be transformed to the value of HB, HV, HK and σ_b value
- The tester meets all the following standard such as ISO 6508-2, ASTM E18

SPECIFICATIONS

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



Touch Screen Rockwell Type Hardness Testers

640 Series



640-01-1

FEATURES

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

SPECIFICATIONS

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

Brinell Hardness Testers

640 Series



640-10-1



640-10-7

FEATURES

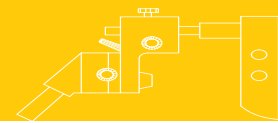
- Used for determining the Brinell hardness of various metals
- A "V" anvil is supplied for testing round work pieces
- Readings provided to a minimum resolution 0.5HR
- Mechanical models are designed with reversing switch
- Digital Models provide automatic operation reducing manual testing errors
-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

STANDARD ACCESSORIES

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

SPECIFICATIONS

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



Hardness Test Blocks

640 Series



SPECIFICATIONS

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

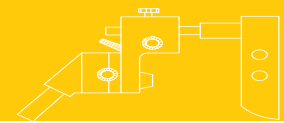
Hardness Tester Penetrators

640 Series



SPECIFICATIONS

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



Microscope XC-100L



642-01-0

FEATURES

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

STANDARD ACCESSORIES

- Eyepiece, Lamp, Instruction manual

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

Stereo-Microscope ST 40



642-01-2

FEATURES

- Sharp stereo erect image over a wide field of view
- Binocular Tube. 45° inclined binocular head with locked-in eyepiece. The left ocular-tube with diopter adjustment $\pm 5dp$. 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 | |
|---------------------|---------------------------|
| Magnification | 20X / 40X |
| Field of View | 10mm / 5mm |
| Working Distance | 57mm |
| Eyepiece | WF10X |
| Objective | 2X / 4X |
| Illumination System | 12V / 10W Double-Lighting |

Stereo-Microscope ST 45



642-01-3

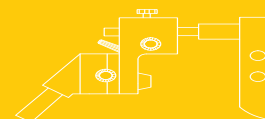
FEATURES

- Sharp stereo erect image over a wide field of view
- Binocular Tube. 45° inclined binocular head with locked-in eyepiece. The left ocular-tube with diopter adjustment $\pm 5dp$. 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 | |
|---------------------|------------------------------------|
| Magnification | 20X / 40X |
| Field of View | 10mm / 5mm |
| Working Distance | 76mm |
| Eyepiece | WF10X / 20mm |
| Objective | 2X / 4X |
| Illumination System | 12V / 10W Halogen and Incandescent |



Stereo-Microscope ST 50



642-01-4

FEATURES

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

STANDARD ACCESSORIES

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

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

Accessory for ST 40/ST 45

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

Stereo-Microscope LAB 1



642-01-5

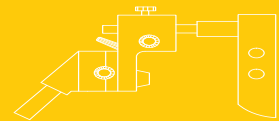
FEATURES

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

STANDARD ACCESSORIES

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

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



Stereo-Zoom Microscope LAB 2



642-01-6

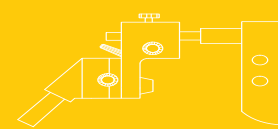
FEATURES

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

STANDARD ACCESSORIES

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

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



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