

PRECISION



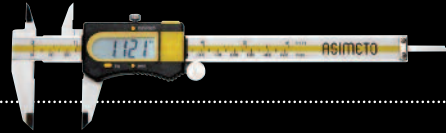
ASIMETO
VALUE+

I N D E X

4 Micrometers



36 Calipers



56 Depth & Height Gauges



68 Indicator & Dial gauges



88 Holtests & Bore Gauges



100 Other Gauge



114 Gauge



128 Testers & Optical Equipment



Asimeto. Exactly what you need.

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

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

The brand was founded in 2004 by the partnership of HITEC MESSTECHNIK, a highly established German manufacturer of measuring instruments and Sowa Tool, a leading Canadian machinery company with a strong presence in North America. It all means that Asimeto should be your source for precision measuring instruments.

Asimeto has exactly what you need.

Introduction to Asimeto Calibration Laboratory

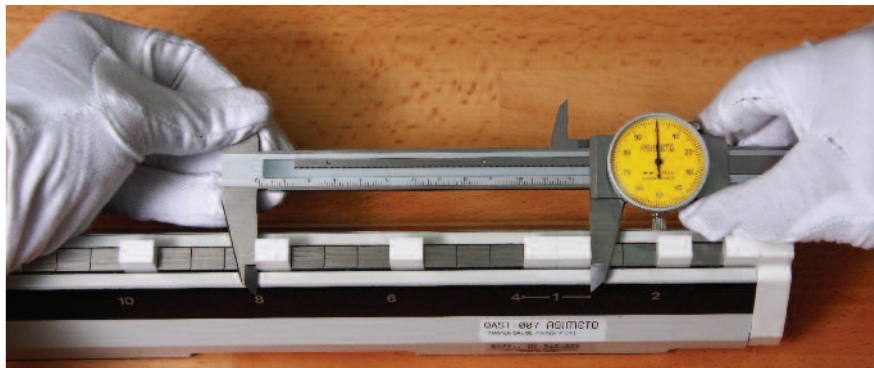
The quality and measuring accuracy of all Asimeto precision tools is guaranteed by the Asimeto calibration laboratory. All tools are inspected for conformance to the Asimeto design specifications and are then processed through the Asimeto calibration laboratory. Only the latest state of the art calibration equipment has been selected, from the leading global manufactories, 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 delication and diligence of the Asimeto Calibration Laboratory assures you that the accuracy is within the specifications of your local standard.

ASIMETO

Calibration Lab Report



2

Product description

Calibration Certificate

ASIMETO®

Value+

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

Visual Inspection Passed
 Function Inspection Passed

Outside Measurements

Disposition

Inspection Point & result

1

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

3

Inspection Serial Number NIST Number PTB Number

Gauge Block Set 530-40 07-54907-A 4939 PTB 05

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

Calibration is valid for one year from the date of purchase

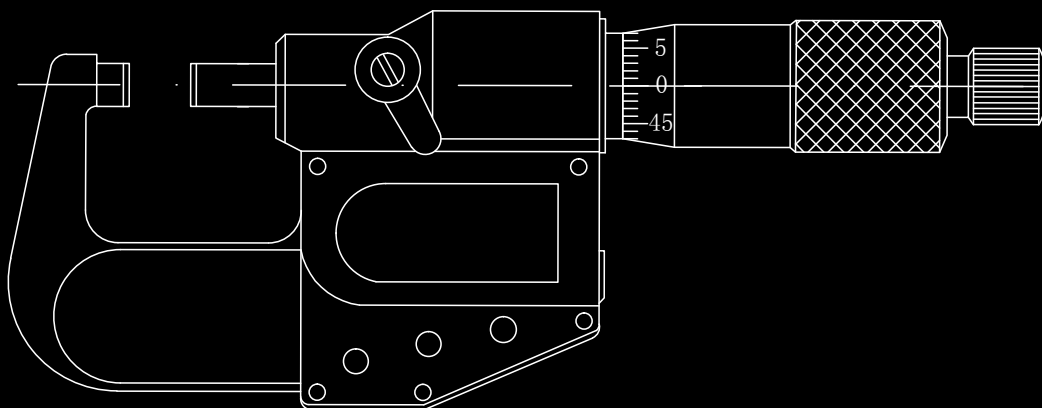
* Check mark indicates within tolerance

Traceable No.

4

Micrometers

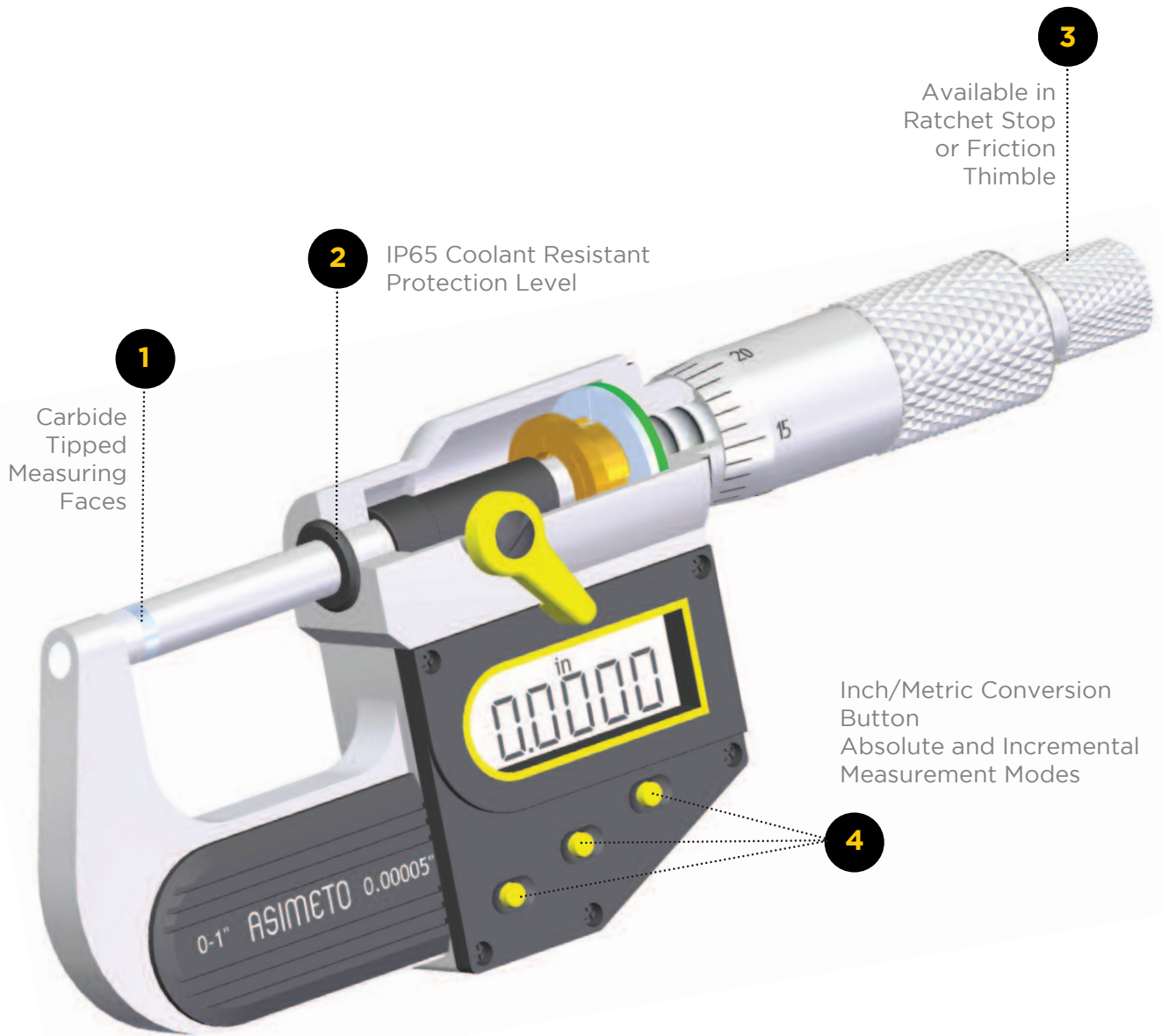
- 6 IP65 Digital Outside Micrometers
- 7 Economic Digital Outside Micrometers
- 8 Speedy Digital Outside Micrometers (2mm/Rev. Feed)
- 9 Outside Micrometers
- 10 Interchangeable Anvil Outside Micrometers
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- 14 Blade Micrometers
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- 20 Screw Thread Micrometers
- 21 Disk Micrometers
- 22 Jaw Type Micrometers
- 23 Universal Micrometers
- 24 V-Anvil Micrometers
- 25 Ball End Micrometers
- 27 Deep Throat Micrometers
- 28 Limit Micrometers
- 28 Wire Micrometers
- 29 Sheet Metal Micrometers
- 29 Hub Micrometers
- 30 Groove Micrometers
- 31 Indicating Micrometers
- 31 Hot Sheet Micrometers
- 32 Snap Gauges
- 33 Can Seam Micrometers
- 33 Micrometer Heads
- 35 Micrometer Standards





ASIMETO Digital Micrometers

Features:



1
Carbide Tipped Measuring Faces

2 IP65 Coolant Resistant Protection Level

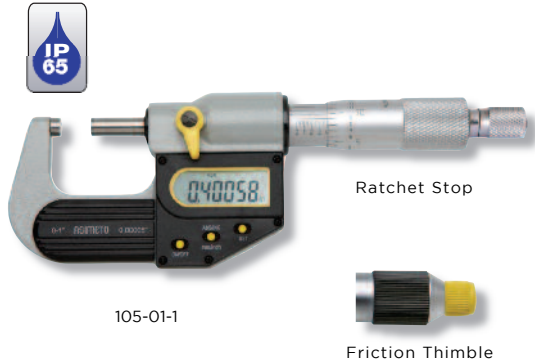
3
Available in Ratchet Stop or Friction Thimble

4
Inch/Metric Conversion Button
Absolute and Incremental Measurement Modes



IP65 Digital Outside Micrometers

105 / 106 Series



FEATURES

- Resolution:
 - Digital: .00005"/ 0.001mm
 - Scale: .0001"/ 0.01mm
- Flatness: 0.000012"/ 0.3µm
- Protection level IP65
- Ratchet Stop and Friction Thimble are optional
- Upon switch on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Inch/Metric conversion
- Absolute or incremental measuring modes
- Carbide tipped measuring faces
- Grey painted steel frame

STANDARD ACCESSORIES

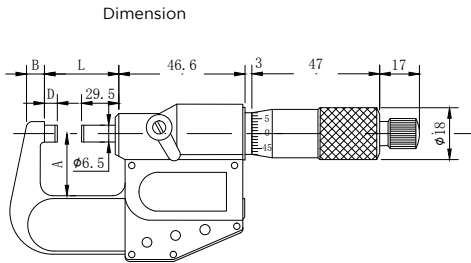
- S-wrench, SR44 Battery, Ball Anvil, Standard (over 1"/25mm range)
- Warranty card, Calibration Certificate, Instruction manual
- Packaging:
 - Plastic case for models up to 150mm range
 - Wooden case for models over 150mm range

SPECIFICATIONS

| Inch | | Metric | | Inch | | Metric | |
|-------------|----------|-----------|----------|----------|-------------|----------|----------|
| Range | Accuracy | Range | Accuracy | Thimble | Data Output | Code No. | Code No. |
| 0-1" | ±.0001" | 0-25mm | ±0.002mm | Ratchet | With | 105-01-3 | 105-01-2 |
| 1-2" | ±.0002" | 25-50mm | ±0.002mm | Ratchet | With | 105-02-3 | 105-02-2 |
| 2-3" | ±.0002" | 50-75mm | ±0.003mm | Ratchet | With | 105-03-3 | 105-03-2 |
| 3-4" | ±.0002" | 75-100mm | ±0.003mm | Ratchet | With | 105-04-3 | 105-04-2 |
| 4-5" | ±.0002" | 100-125mm | ±0.003mm | Ratchet | With | 105-05-3 | 105-05-2 |
| 5-6" | ±.0002" | 125-150mm | ±0.003mm | Ratchet | With | 105-06-3 | 105-06-2 |
| 6-7" | ±.0002" | 150-175mm | ±0.004mm | Ratchet | With | 105-07-3 | 105-07-2 |
| 7-8" | ±.0002" | 175-200mm | ±0.004mm | Ratchet | With | 105-08-3 | 105-08-2 |
| 8-9" | ±.0002" | 200-225mm | ±0.004mm | Ratchet | With | 105-09-3 | 105-09-2 |
| 9-10" | ±.0003" | 225-250mm | ±0.004mm | Ratchet | With | 105-10-3 | 105-10-2 |
| 10-11" | ±.0003" | 250-275mm | ±0.005mm | Ratchet | With | 105-11-3 | 105-11-2 |
| 11-12" | ±.0003" | 275-300mm | ±0.005mm | Ratchet | With | 105-12-3 | 105-12-2 |
| 0-1" | ±.0001" | 0-25mm | ±0.002mm | Friction | w/o | 106-01-5 | 106-01-4 |
| 1-2" | ±.0002" | 25-50mm | ±0.002mm | Friction | w/o | 106-02-5 | 106-02-4 |
| 2-3" | ±.0002" | 50-75mm | ±0.003mm | Friction | w/o | 106-03-5 | 106-03-4 |
| 3-4" | ±.0002" | 75-100mm | ±0.003mm | Friction | w/o | 106-04-5 | 106-04-4 |
| 0-1" | ±.0001" | 0-25mm | ±0.002mm | Ratchet | w/o | 105-01-1 | 105-01-0 |
| 1-2" | ±.0002" | 25-50mm | ±0.002mm | Ratchet | w/o | 105-02-1 | 105-02-0 |
| 2-3" | ±.0002" | 50-75mm | ±0.003mm | Ratchet | w/o | 105-03-1 | 105-03-0 |
| 3-4" | ±.0002" | 75-100mm | ±0.003mm | Ratchet | w/o | 105-04-1 | 105-04-0 |
| 0-1" | ±.0001" | 0-25mm | ±0.002mm | Friction | With | 106-01-7 | 106-01-6 |
| 1-2" | ±.0002" | 25-50mm | ±0.002mm | Friction | With | 106-02-7 | 106-02-6 |
| Sets | | | | | | | |
| Range | Quantity | Range | Quantity | | | | |
| 0-3" | 3 | 0-75mm | 3 | Ratchet | With | 105-63-9 | 105-63-8 |
| 0-4" | 4 | 0-100mm | 4 | Ratchet | With | 105-64-9 | 105-64-8 |
| 0-6" | 6 | 0-150mm | 6 | Ratchet | With | 105-66-9 | 105-66-8 |



IP65 Digital Outside Micrometers



| Range | A | L | B | D |
|------------------|-------|-------|----|-----|
| Inch/Metric | mm | mm | mm | mm |
| 0-1"/0-25mm | 24 | 32.5 | 6 | 3 |
| 1-2"/25-50mm | 32 | 57.5 | 8 | 3 |
| 2-3"/50-75mm | 44.5 | 82.5 | 8 | 3 |
| 3-4"/75-100mm | 57 | 107.5 | 8 | 3 |
| 4-5"/100-125mm | 70 | 133 | 10 | 3 |
| 5-6"/125-150mm | 82 | 158.5 | 10 | 3 |
| 6-7"/150-175mm | 94.5 | 184 | 12 | 5.5 |
| 7-8"/175-200mm | 107 | 209.5 | 12 | 5.5 |
| 8-9"/200-225mm | 129.5 | 234 | 23 | 5.5 |
| 9-10"/225-250mm | 142.5 | 259.5 | 23 | 5.5 |
| 10-11"/250-275mm | 155 | 285 | 23 | 5.5 |
| 11-12"/275-300mm | 167.5 | 310.5 | 23 | 5.5 |

Economic Digital Outside Micrometers

107 Series



107-02-0

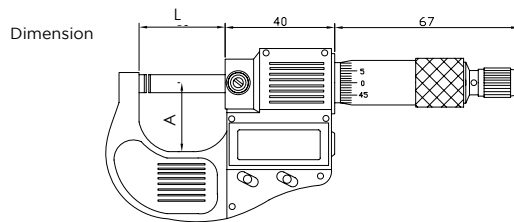
S-wrench



SR44 Battery



Standard



FEATURES

- Resolution:
Digital: .00005"/ 0.001mm
Scale: .0001"/ 0.01mm
- Inch/Metric conversion
- Absolute or incremental measuring modes
- Carbide tipped measuring faces
- Ratchet Stop and Ratchet Thimble are optional

STANDARD ACCESSORIES

- S-wrench, SR44 Battery, Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Plastic case

SPECIFICATIONS

| Inch | | Metric | | Inch | | Metric | | |
|-------|----------|----------|----------|------------------|-------|--------|----------|----------|
| Range | Accuracy | Range | Accuracy | Thimble | L | A | Code No. | Code No. |
| 0-1" | ±.0001" | 0-25mm | ±0.003mm | Ratchet | 31mm | 25mm | 107-01-1 | 107-01-0 |
| 1-2" | ±.0002" | 25-50mm | ±0.003mm | Ratchet | 56mm | 35mm | 107-02-1 | 107-02-0 |
| 2-3" | ±.0002" | 50-75mm | ±0.004mm | Ratchet | 81mm | 45mm | 107-03-1 | 107-03-0 |
| 3-4" | ±.0002" | 75-100mm | ±0.004mm | Ratchet | 106mm | 55mm | 107-04-1 | 107-04-0 |
| 0-1" | ±.0001" | 0-25mm | ±0.003mm | Friction Thimble | 31mm | 25mm | 107-01-3 | 107-01-2 |
| 1-2" | ±.0002" | 25-50mm | ±0.003mm | Friction Thimble | 56mm | 35mm | 107-02-3 | 107-02-2 |
| 2-3" | ±.0002" | 50-75mm | ±0.004mm | Friction Thimble | 81mm | 45mm | 107-03-3 | 107-03-2 |
| 3-4" | ±.0002" | 75-100mm | ±0.004mm | Friction Thimble | 106mm | 55mm | 107-04-3 | 107-04-2 |



Speedy Digital Outside Micrometers (2mm/Rev. Feed)

104 Series



FEATURES

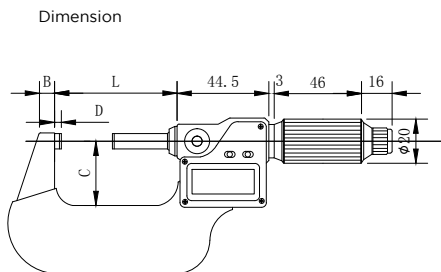
- Resolution: .00005" / 0.001mm
- Flatness: 0.3µm / 0.000012"
- Inch/Metric conversion
- Absolute or incremental measuring modes
- Large LCD readout
- Protection level IP65
- Measurement speed is increased by a factor of 3 due to the 2mm pitch of the spindle
- Upon switch on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Ratchet thimble
- Grey painted steel frame

STANDARD ACCESSORIES

- S-wrench, SR44 Battery, Ball Anvil, Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate
- Packaging:
 - Plastic case for models up to 6"/150mm range
 - Wooden case for models over 6"/150mm range

SPECIFICATIONS

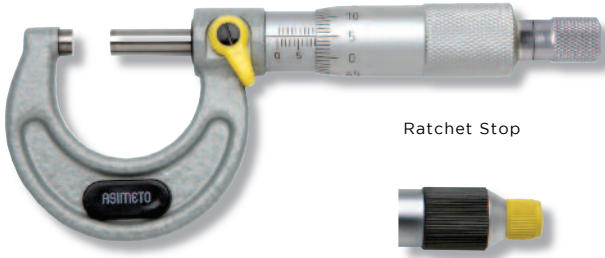
| Inch | | Metric | | Inch | | Metric | |
|--------|----------|-----------|----------|----------|----------|----------|----------|
| Range | Accuracy | Range | Accuracy | Code No. | Code No. | Code No. | Code No. |
| 0-1" | ±0.0001" | 0-25mm | ±0.002mm | 104-01-3 | 104-01-2 | | |
| 1-2" | ±0.0002" | 25-50mm | ±0.002mm | 104-02-3 | 104-02-2 | | |
| 2-3" | ±0.0002" | 50-75mm | ±0.003mm | 104-03-3 | 104-03-2 | | |
| 3-4" | ±0.0002" | 75-100mm | ±0.003mm | 104-04-3 | 104-04-2 | | |
| 4-5" | ±0.0002" | 100-125mm | ±0.003mm | 104-05-3 | 104-05-2 | | |
| 5-6" | ±0.0002" | 125-150mm | ±0.003mm | 104-06-3 | 104-06-2 | | |
| 6-7" | ±0.0002" | 150-175mm | ±0.004mm | 104-07-3 | 104-07-2 | | |
| 7-8" | ±0.0002" | 175-200mm | ±0.004mm | 104-08-3 | 104-08-2 | | |
| 8-9" | ±0.0002" | 200-225mm | ±0.004mm | 104-09-3 | 104-09-2 | | |
| 9-10" | ±0.0003" | 225-250mm | ±0.004mm | 104-10-3 | 104-10-2 | | |
| 10-11" | ±0.0003" | 250-275mm | ±0.005mm | 104-11-3 | 104-11-2 | | |
| 11-12" | ±0.0003" | 275-300mm | ±0.005mm | 104-12-3 | 104-12-2 | | |



| Range | C | L | B | D |
|------------------|-------|-------|----|-----|
| Inch/Metric | mm | mm | mm | mm |
| 0-1"/0-25mm | 25 | 34.5 | 6 | 3 |
| 1-2"/25-50mm | 32 | 59.5 | 8 | 3 |
| 2-3"/50-75mm | 44.5 | 84.5 | 8 | 3 |
| 3-4"/75-100mm | 57 | 109.5 | 8 | 3 |
| 4-5"/100-125mm | 70 | 135 | 10 | 3 |
| 5-6"/125-150mm | 82 | 160.5 | 10 | 3 |
| 6-7"/150-175mm | 94.5 | 186 | 12 | 5.5 |
| 7-8"/175-200mm | 107 | 211.5 | 12 | 5.5 |
| 8-9"/200-225mm | 129.5 | 236 | 23 | 5.5 |
| 9-10"/225-250mm | 142.5 | 261.5 | 23 | 5.5 |
| 10-11"/250-275mm | 155 | 287 | 23 | 5.5 |
| 11-12"/275-300mm | 167.5 | 312.5 | 23 | 5.5 |

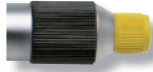
Outside Micrometers

101 Series



101-01-0

Ratchet Stop



Friction Thimble



101-66-8



S-wrench



Standard

FEATURES

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

SPECIFICATIONS

STANDARD ACCESSORIES

- S-wrench, Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate
- Packaging:
Plastic case for models up to 150mm range
Wooden case for models over 150mm range

| Inch | | | Metric | | | | Inch | | Metric | |
|--------|------------|----------|-----------|------------|----------|----------|----------|----------|--------|--|
| Range | Graduation | Accuracy | Range | Graduation | Accuracy | Thimble | Code No. | Code No. | | |
| 0-0.6" | .001" | ±.0001" | - | - | - | Ratchet | 101-96-1 | - | | |
| 0-1" | .001" | ±.0001" | 0-25mm | 0.01mm | ±0.004mm | Ratchet | 101-01-1 | 101-01-0 | | |
| 1-2" | .001" | ±.0002" | 25-50mm | 0.01mm | ±0.004mm | Ratchet | 101-02-1 | 101-02-0 | | |
| 2-3" | .001" | ±.0002" | 50-75mm | 0.01mm | ±0.005mm | Ratchet | 101-03-1 | 101-03-0 | | |
| 3-4" | .001" | ±.0002" | 75-100mm | 0.01mm | ±0.005mm | Ratchet | 101-04-1 | 101-04-0 | | |
| 4-5" | .001" | ±.0002" | 100-125mm | 0.01mm | ±0.006mm | Ratchet | 101-05-1 | 101-05-0 | | |
| 5-6" | .001" | ±.0002" | 125-150mm | 0.01mm | ±0.006mm | Ratchet | 101-06-1 | 101-06-0 | | |
| 6-7" | .001" | ±.0002" | 150-175mm | 0.01mm | ±0.007mm | Ratchet | 101-07-1 | 101-07-0 | | |
| 7-8" | .001" | ±.0002" | 175-200mm | 0.01mm | ±0.007mm | Ratchet | 101-08-1 | 101-08-0 | | |
| 8-9" | .001" | ±.0002" | 200-225mm | 0.01mm | ±0.008mm | Ratchet | 101-09-1 | 101-09-0 | | |
| 9-10" | .001" | ±.0003" | 225-250mm | 0.01mm | ±0.008mm | Ratchet | 101-10-1 | 101-10-0 | | |
| 10-11" | .001" | ±.0003" | 250-275mm | 0.01mm | ±0.009mm | Ratchet | 101-11-1 | 101-11-0 | | |
| 11-12" | .001" | ±.0003" | 275-300mm | 0.01mm | ±0.009mm | Ratchet | 101-12-1 | 101-12-0 | | |
| 0-1" | .001" | ±.0001" | 0-25mm | 0.01mm | ±0.004mm | Friction | 102-01-5 | 102-01-4 | | |
| 1-2" | .001" | ±.0002" | 25-50mm | 0.01mm | ±0.004mm | Friction | 102-02-5 | 102-02-4 | | |
| 2-3" | .001" | ±.0002" | 50-75mm | 0.01mm | ±0.005mm | Friction | 102-03-5 | 102-03-4 | | |
| 3-4" | .001" | ±.0002" | 75-100mm | 0.01mm | ±0.005mm | Friction | 102-04-5 | 102-04-4 | | |
| 0-1" | .0001" | ±.0001" | 0-25mm | 0.001mm | ±0.004mm | Ratchet | 101-01-3 | 101-01-2 | | |
| 1-2" | .0001" | ±.0002" | 25-50mm | 0.001mm | ±0.004mm | Ratchet | 101-02-3 | 101-02-2 | | |
| 2-3" | .0001" | ±.0002" | 50-75mm | 0.001mm | ±0.005mm | Ratchet | 101-03-3 | 101-03-2 | | |
| 3-4" | .0001" | ±.0002" | 75-100mm | 0.001mm | ±0.005mm | Ratchet | 101-04-3 | 101-04-2 | | |
| 4-5" | .0001" | ±.0002" | 100-125mm | 0.001mm | ±0.006mm | Ratchet | 101-05-3 | 101-05-2 | | |
| 5-6" | .0001" | ±.0002" | 125-150mm | 0.001mm | ±0.006mm | Ratchet | 101-06-3 | 101-06-2 | | |
| 6-7" | .0001" | ±.0002" | 150-175mm | 0.001mm | ±0.007mm | Ratchet | 101-07-3 | 101-07-2 | | |
| 7-8" | .0001" | ±.0002" | 175-200mm | 0.001mm | ±0.007mm | Ratchet | 101-08-3 | 101-08-2 | | |
| 8-9" | .0001" | ±.0002" | 200-225mm | 0.001mm | ±0.008mm | Ratchet | 101-09-3 | 101-09-2 | | |
| 9-10" | .0001" | ±.0003" | 225-250mm | 0.001mm | ±0.008mm | Ratchet | 101-10-3 | 101-10-2 | | |
| 10-11" | .0001" | ±.0003" | 250-275mm | 0.001mm | ±0.009mm | Ratchet | 101-11-3 | 101-11-2 | | |
| 11-12" | .0001" | ±.0003" | 275-300mm | 0.001mm | ±0.009mm | Ratchet | 101-12-3 | 101-12-2 | | |
| 0-1" | .0001" | ±.0001" | 0-25mm | 0.001mm | ±0.004mm | Friction | 102-01-7 | 102-01-6 | | |
| 1-2" | .0001" | ±.0002" | 25-50mm | 0.001mm | ±0.004mm | Friction | 102-02-7 | 102-02-6 | | |
| 2-3" | .0001" | ±.0002" | 50-75mm | 0.001mm | ±0.005mm | Friction | 102-03-7 | 102-03-6 | | |
| 3-4" | .0001" | ±.0002" | 75-100mm | 0.001mm | ±0.005mm | Friction | 102-04-7 | 102-04-6 | | |

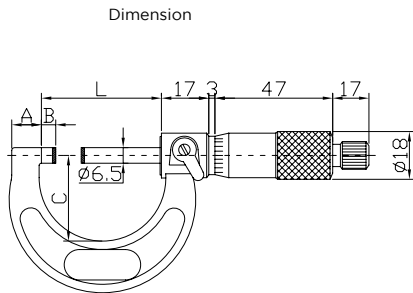


Outside Micrometers

101 Series

Sets

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



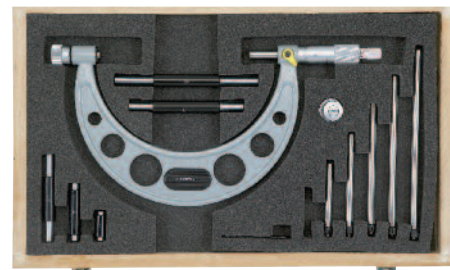
| Range | A | B | C | L |
|------------------|------|----|-----|-----|
| Inch/Metric | mm | mm | mm | mm |
| 0-1"/0-25mm | 9 | 3 | 28 | 32 |
| 1-2"/25-50mm | 14 | 3 | 38 | 57 |
| 2-3"/50-75mm | 14.5 | 3 | 49 | 82 |
| 3-4"/75-100mm | 15 | 3 | 60 | 107 |
| 4-5"/100-125mm | 16.5 | 3 | 73 | 133 |
| 5-6"/125-150mm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

Interchangeable Anvil Outside Micrometers

115 / 111 Series



Digital models



111-06-1

STANDARD ACCESSORIES

- S-wrench, SR44 Battery (Digital models), Standard, Interchangeable Anvils, Torque Wrench, 2 guiding rings
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Wooden case



S-wrench



Torque Wrench



SR44 Battery

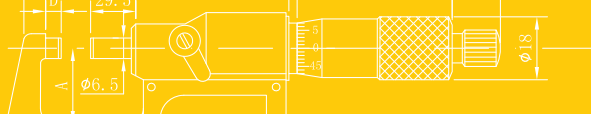


Standard



Guiding rings

MICROMETERS



FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .001" / 0.01mm
 - Flatness: 0.00004" / 1µm
- Ratchet stop
- Interchangeable anvils provides wider measuring ranges
- Carbide tipped measuring faces
- Grey painted steel frame for models up to 12"/300mm models
- Grey welded pipe frame for models over 12"/300mm models
- Inch/Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Absolute or incremental measuring modes
- Protection level IP65

SPECIFICATIONS

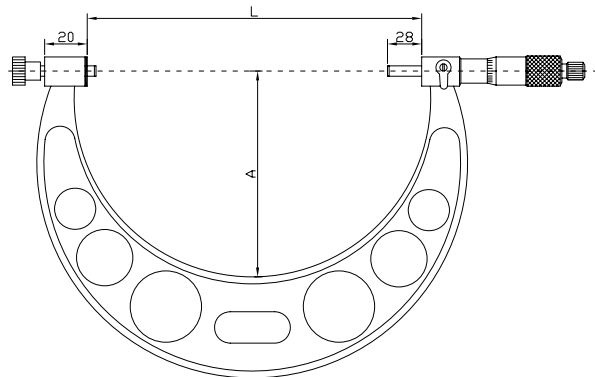
Digital models

| Inch | | Metric | | | | Inch | | Metric | |
|--------|----------|------------|----------|--------|----------|----------|----------|--------|--|
| Range | Accuracy | Range | Accuracy | Anvils | Standard | Code No. | Code No. | | |
| 0-6" | ±0.0002" | 0-150mm | ±0.006mm | 6 pcs | 5 pcs | 115-06-1 | 115-06-0 | | |
| 6-12" | ±0.0003" | 150-300mm | ±0.009mm | 6 pcs | 6 pcs | 115-12-1 | 115-12-0 | | |
| 0-4" | ±0.0002" | 0-100mm | ±0.006mm | 4 pcs | 3 pcs | 115-04-7 | 115-04-6 | | |
| 4-8" | ±0.0003" | 100-200mm | ±0.009mm | 4 pcs | 4 pcs | 115-08-7 | 115-08-6 | | |
| 8-12" | ±0.0003" | 200-300mm | ±0.009mm | 4 pcs | 4 pcs | 115-12-7 | 115-12-6 | | |
| 12-16" | ±0.0004" | 300-400mm | ±0.011mm | 4 pcs | 2 pcs | 115-16-1 | 115-16-0 | | |
| 16-20" | ±0.0005" | 400-500mm | ±0.013mm | 4 pcs | 2 pcs | 115-20-1 | 115-20-0 | | |
| 20-24" | ±0.0006" | 500-600mm | ±0.015mm | 4 pcs | 2 pcs | 115-24-1 | 115-24-0 | | |
| 24-28" | ±0.0006" | 600-700mm | ±0.016mm | 4 pcs | 2 pcs | 115-28-1 | 115-28-0 | | |
| 28-32" | ±0.0007" | 700-800mm | ±0.018mm | 4 pcs | 2 pcs | 115-32-1 | 115-32-0 | | |
| 32-36" | ±0.0008" | 800-900mm | ±0.020mm | 4 pcs | 2 pcs | 115-36-1 | 115-36-0 | | |
| 6-40" | ±0.0008" | 900-1000mm | ±0.020mm | 4 pcs | 2 pcs | 115-40-1 | 115-40-0 | | |

Mechanical models

| Inch | | Metric | | | | Inch | | Metric | |
|--------|----------|------------|----------|--------|----------|----------|----------|--------|--|
| Range | Accuracy | Range | Accuracy | Anvils | Standard | Code No. | Code No. | | |
| 0-6" | ±0.0002" | 0-150mm | ±0.006mm | 6 pcs | 5 pcs | 111-06-1 | 111-06-0 | | |
| 6-12" | ±0.0003" | 150-300mm | ±0.009mm | 6 pcs | 6 pcs | 111-12-1 | 111-12-0 | | |
| 0-4" | ±0.0002" | 0-100mm | ±0.006mm | 4 pcs | 3 pcs | 111-04-7 | 111-04-6 | | |
| 4-8" | ±0.0003" | 100-200mm | ±0.009mm | 4 pcs | 4 pcs | 111-08-7 | 111-08-6 | | |
| 8-12" | ±0.0003" | 200-300mm | ±0.009mm | 4 pcs | 4 pcs | 111-12-7 | 111-12-6 | | |
| 12-16" | ±0.0004" | 300-400mm | ±0.011mm | 4 pcs | 2 pcs | 111-16-1 | 111-16-0 | | |
| 16-20" | ±0.0005" | 400-500mm | ±0.013mm | 4 pcs | 2 pcs | 111-20-1 | 111-20-0 | | |
| 20-24" | ±0.0006" | 500-600mm | ±0.015mm | 4 pcs | 2 pcs | 111-24-1 | 111-24-0 | | |
| 24-28" | ±0.0006" | 600-700mm | ±0.016mm | 4 pcs | 2 pcs | 111-28-1 | 111-28-0 | | |
| 28-32" | ±0.0007" | 700-800mm | ±0.018mm | 4 pcs | 2 pcs | 111-32-1 | 111-32-0 | | |
| 32-36" | ±0.0008" | 800-900mm | ±0.020mm | 4 pcs | 2 pcs | 111-36-1 | 111-36-0 | | |
| 36-40" | ±0.0008" | 900-1000mm | ±0.020mm | 4 pcs | 2 pcs | 111-40-1 | 111-40-0 | | |

Dimension



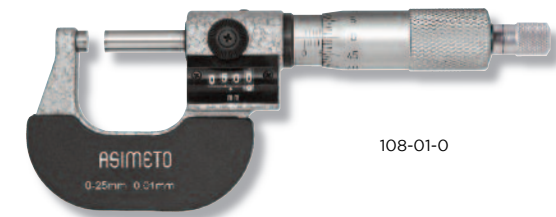
| Range | | Range | | A | | L | |
|--------|------------|-------|------|----|----|----|----|
| Inch | Metric | mm | mm | mm | mm | mm | mm |
| 0-6" | 0-150mm | 82 | 158 | | | | |
| 6-12" | 150-300mm | 165 | 308 | | | | |
| 0-4" | 0-100mm | 57 | 108 | | | | |
| 4-8" | 100-200mm | 114 | 208 | | | | |
| 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 | | | | |

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



Digit Counter Outside Micrometers

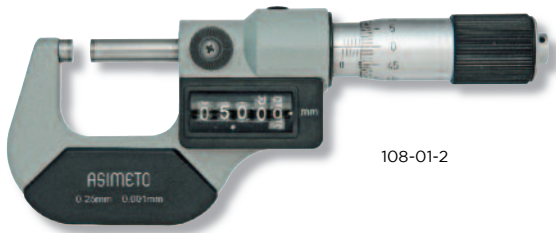
108 Series



108-01-0



S-wrench



108-01-2



Standard

FEATURES

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

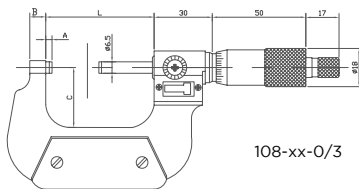
STANDARD ACCESSORIES

- S-wrench, Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate
- Packaging:
 - Plastic case for models up to 4"/100mm range
 - Wooden case for models over 4"/100mm range

SPECIFICATIONS

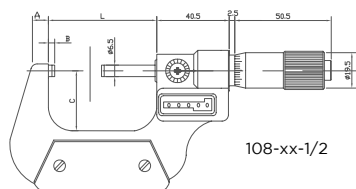
| Inch | | Metric | | Inch Code No. | | Metric Code No. | |
|-------|----------|-----------|----------|-------------------|--------------------|--------------------|---------------------|
| Range | Accuracy | Range | Accuracy | Resolution: .001" | Resolution: .0001" | Resolution: 0.01mm | Resolution: 0.001mm |
| 0-1" | ±.0001" | 0-25mm | ±0.004mm | 108-01-3 | 108-01-1 | 108-01-0 | 108-01-2 |
| 1-2" | ±.0002" | 25-50mm | ±0.004mm | 108-02-3 | 108-02-1 | 108-02-0 | 108-02-2 |
| 2-3" | ±.0002" | 50-75mm | ±0.005mm | 108-03-3 | 108-03-1 | 108-03-0 | 108-03-2 |
| 3-4" | ±.0002" | 75-100mm | ±0.005mm | 108-04-3 | 108-04-1 | 108-04-0 | 108-04-2 |
| 4-5" | ±.0002" | 100-120mm | ±0.005mm | 108-05-3 | 108-05-1 | 108-05-0 | 108-05-2 |
| 5-6" | ±.0002" | 125-150mm | ±0.005mm | 108-06-3 | 108-06-1 | 108-06-0 | 108-06-2 |
| Sets | | | | | | | |
| Range | Quantity | Range | Quantity | | | | |
| 0-3" | 3 | 0-75mm | 3 | 108-63-7 | 108-63-9 | 108-63-8 | 108-63-6 |
| 0-4" | 4 | 0-100mm | 4 | 108-64-7 | 108-64-9 | 108-64-8 | 108-64-6 |
| 0-6" | 6 | 0-150mm | 6 | 108-66-7 | 108-66-9 | 108-66-8 | 108-66-6 |

Dimension



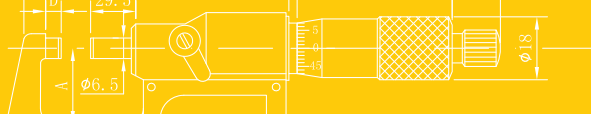
108-xx-0/3

| Range | A | B | C | L |
|----------------|-----|----|------|-------|
| Inch/Metric | mm | mm | mm | mm |
| 0-1"/0-25mm | 3.5 | 6 | 26 | 32 |
| 1-2"/25-50mm | 3.5 | 8 | 32 | 57 |
| 2-3"/50-75mm | 3.5 | 8 | 44.5 | 82 |
| 3-4"/75-100mm | 3.5 | 8 | 57 | 107 |
| 4-5"/100-125mm | 3.5 | 17 | 71.8 | 132.4 |
| 5-6"/125-150mm | 3.5 | 17 | 84 | 157.8 |



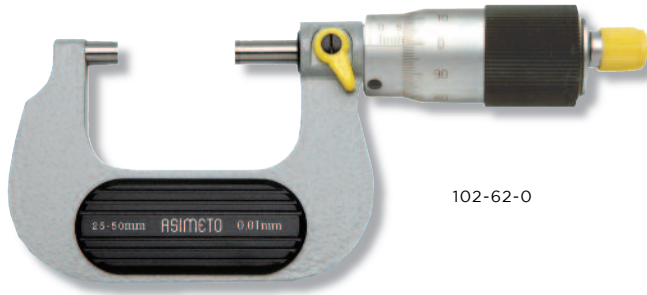
108-xx-1/2

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



Quick-Setting Outside Micrometers, 1mm Rev

102 Series



102-62-0

S-wrench



Standard



FEATURES

- Graduation: 0.01mm
- Flatness: 0.3 μ m
- 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

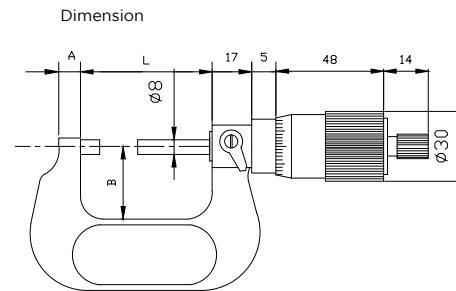
STANDARD ACCESSORIES

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

SPECIFICATIONS

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



Micrometer Stands

109 Series

- These stands are designed to allow bench top use with hand micrometers
- Packaging: Cardboard box



109-01-0
Painted Steel Base



109-02-0
Painted Aluminum Base



109-02-1
Painted Cast-iron Base



Blade Micrometers

112 / 117 Series



117-01-1



S-wrench



SR44 Battery



Standard



112-01-0

STANDARD ACCESSORIES

- S-wrench, SR44 Battery (Digital models), Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Plastic case

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

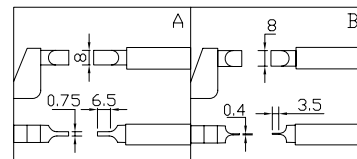
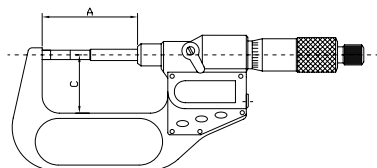
Digital models

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

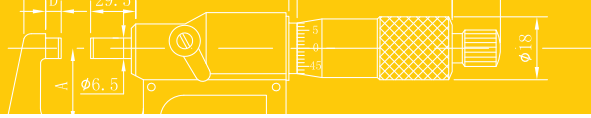
Mechanical models

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

Dimension



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

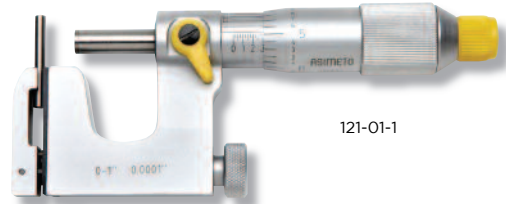


Uni Micrometers

125 / 121 Series



125-01-1



121-01-1

STANDARD ACCESSORIES

- SR44 Battery (Digital models), Rod Anvil, Flat Anvil
- S-wrench, Standard (25-50mm)
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Plastic case



S-wrench



wrench



SR44 Battery



Standard



Anvils

FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .001" / 0.01mm
- Ratchet stop for digital models
- Friction thimble for mechanical models
- Measures tube thickness, shoulder edge distance rivet head height, with interchangeable anvils (Flat Anvil, Rod Anvil, V-anvil)
- Carbide tipped measuring faces
- Chrome-plated steel feet frame
- Inch/Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Absolute or incremental measuring modes
- Protection level IP65

SPECIFICATIONS

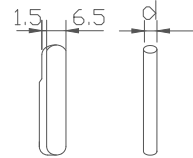
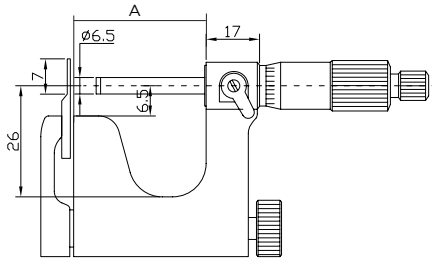
Digital models

| Inch | | Metric | | Inch | | Metric | |
|-------|----------|---------|----------|----------|----------|----------|----------|
| Range | Accuracy | Range | Accuracy | Code No. | Code No. | Code No. | Code No. |
| 0-1" | ±0.001" | 0-25mm | ±0.002mm | 125-01-1 | 125-01-0 | 125-01-1 | 125-01-0 |
| 1-2" | ±0.002" | 25-50mm | ±0.002mm | 125-02-1 | 125-02-0 | 125-02-1 | 125-02-0 |

Mechanical models

| Inch | | Metric | | Inch | | Metric | |
|-------|----------|--------|----------|----------|----------|----------|----------|
| Range | Accuracy | Range | Accuracy | Code No. | Code No. | Code No. | Code No. |
| 0-1" | ±0.001" | 0-25 | ±0.004 | 121-01-1 | 121-01-0 | 121-01-1 | 121-01-0 |
| 1-2" | ±0.002" | 25-50 | ±0.004 | 121-02-1 | 121-02-0 | 121-02-1 | 121-02-0 |

Dimension



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

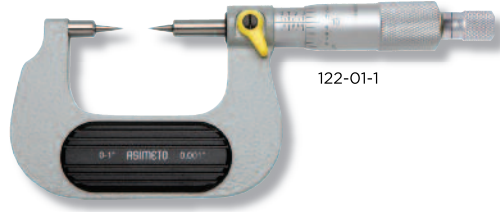


Point Micrometers

122 / 126 Series



126-02-1



122-01-1



S-wrench



SR44 Battery



Standard

STANDARD ACCESSORIES

- S-wrench, SR44 Battery (Digital models), Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Plastic case
- Inch/Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Absolute or incremental measuring modes
- Protection level IP65

FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .001" / 0.01mm
- 15 degree and 30 degree measuring points are available
- For measuring the web thickness of drills, small grooves, and other hard to reach dimensions
- Carbide tipped measuring faces
- Grey painted steel frame
- Ratchet stop

SPECIFICATIONS

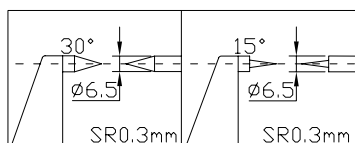
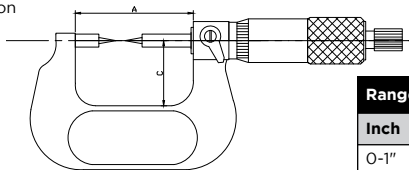
Digital models

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

Mechanical models

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

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



135-01-1



131-01-1



S-wrench



SR44 Battery



Standard

STANDARD ACCESSORIES

- S-wrench, SR44 Battery (Digital models), Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate,
- Packaging: Plastic case

FEATURES

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

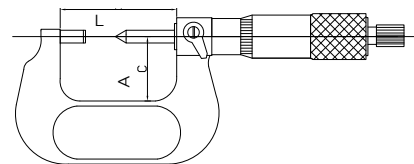
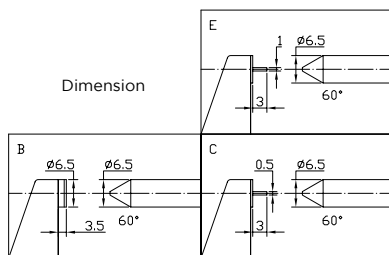
SPECIFICATIONS

Digital models

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

Mechanical models

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



| 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 |

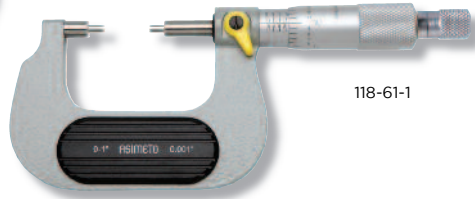


Spline Micrometers

118 Series



118-02-1



118-61-1



S-wrench



SR44 Battery



Standard

STANDARD ACCESSORIES

- S-wrench, SR44 Battery (Digital models), Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Plastic case

FEATURES

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

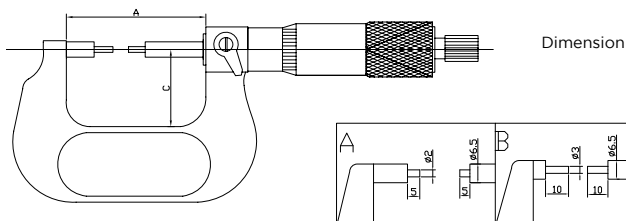
SPECIFICATIONS

Digital models

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

Mechanical models

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

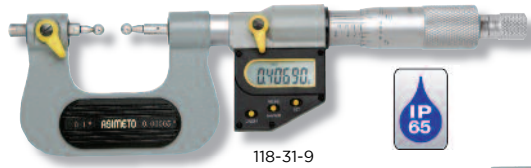


| Range | Range | A | C |
|-------|----------|-------|------|
| Inch | Metric | mm | mm |
| 0-1" | 0-25mm | 57 | 32 |
| 1-2" | 25-50mm | 82 | 44.5 |
| 2-3" | 50-75mm | 107 | 57 |
| 3-4" | 75-100mm | 132.6 | 69.5 |



Gear Tooth Micrometers

118 Series



118-31-9



118-71-9



S-wrench



SR44 Battery



Standard

FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .001" / 0.01mm
- Ratchet stop
- Grey painted steel frame
- Measures over-pin diameter of gears with precision steel (carbide) ball-tipped measuring faces
- Interchangeable ball anvil-spindle tips for various gear modules (0.6-3.5) are optional
- Set included 10 pairs Interchangeable anvils

STANDARD ACCESSORIES

- S-wrench, SR44 battery (Digital models), Anvils 10 pairs (Set), Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate
- Packaging:
 - Plastic case for models up to 100mm range
 - Wooden case for models over 100mm range

- Inch/Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Absolute or incremental measuring modes
- Protection level IP65

SPECIFICATIONS

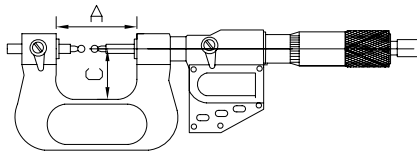
Digital models

| Inch | | Metric | | Inch | | Metric | |
|-------|----------|-----------|----------|----------|--------------|----------|--------------|
| Range | Accuracy | Range | Accuracy | Code No. | Set Code No. | Code No. | Set Code No. |
| 0-1" | ±.0001" | 0-25mm | ±0.004mm | 118-31-1 | 118-31-9 | 118-31-0 | 118-31-8 |
| 1-2" | ±.0002" | 25-50mm | ±0.004mm | 118-32-1 | 118-32-9 | 118-32-0 | 118-32-8 |
| 2-3" | ±.0002" | 50-75mm | ±0.005mm | 118-33-1 | 118-33-9 | 118-33-0 | 118-33-8 |
| 3-4" | ±.0002" | 75-100mm | ±0.005mm | 118-34-1 | 118-34-9 | 118-34-0 | 118-34-8 |
| 4-5" | ±.0002" | 100-125mm | ±0.006mm | 118-35-1 | 118-35-9 | 118-35-0 | 118-35-8 |
| 5-6" | ±.0002" | 125-150mm | ±0.006mm | 118-36-1 | 118-36-9 | 118-36-0 | 118-36-8 |
| 6-7" | ±.0002" | 150-175mm | ±0.007mm | 118-37-1 | 118-37-9 | 118-37-0 | 118-37-8 |

Mechanical models

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

Dimension



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

Anvils

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



Screw Thread Micrometers

136 / 137 / 132 / 133 Series



136-01-1



S-wrench



SR44 Battery



Standard



133-01-1

FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .001" / 0.01mm
- Grey painted steel frame
- For measuring various screw threads
- No-rotating spindle
- Ratchet stop for digital models
- Friction thimble for Mechanical models
- Set included 5 pairs Interchangeable anvils

STANDARD ACCESSORIES

- S-wrench, SR44 Battery (Digital models), Anvils 5 pairs (Set), Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate
- Packaging:
 - Plastic case for models up to 100mm range
 - Wooden case for models over 100mm range
- Inch/Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Absolute or incremental measuring modes
- Protection level IP65

SPECIFICATIONS

Digital models

| Inch | | Metric | | Inch | | Metric | |
|-------|----------|-----------|----------|-----------------|-----------------|-----------------|-----------------|
| Range | Accuracy | Range | Accuracy | Code No. | Set Code No. | Code No. | Set Code No. |
| 0-1" | ±.0001" | 0-25mm | ±0.004mm | 136-01-1 | 137-01-1 | 136-01-0 | 137-01-0 |
| 1-2" | ±.0002" | 25-50mm | ±0.004mm | 136-02-1 | 137-02-1 | 136-02-0 | 137-02-0 |
| 2-3" | ±.0002" | 50-75mm | ±0.005mm | 136-03-1 | 137-03-1 | 136-03-0 | 137-03-0 |
| 3-4" | ±.0002" | 75-100mm | ±0.005mm | 136-04-1 | 137-04-1 | 136-04-0 | 137-04-0 |
| 4-5" | ±.0002" | 100-125mm | ±0.006mm | 136-05-1 | 137-05-1 | 136-05-0 | 137-05-0 |
| 5-6" | ±.0002" | 125-150mm | ±0.006mm | 136-06-1 | 137-06-1 | 136-06-0 | 137-06-0 |

Mechanical models

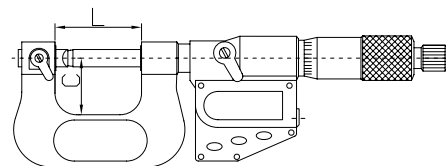
| Inch | | Metric | | Inch | | Metric | |
|-------|----------|-----------|----------|-----------------|-----------------|-----------------|-----------------|
| Range | Accuracy | Range | Accuracy | Code No. | Set Code No. | Code No. | Set Code No. |
| 0-1" | ±.0001" | 0-25mm | ±0.004mm | 132-01-1 | 133-01-1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

Anvils (For metric screw 60°)



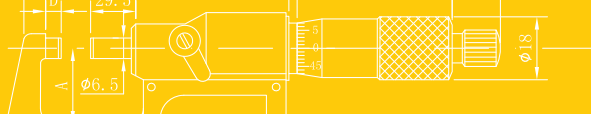
130-60-0

Dimension



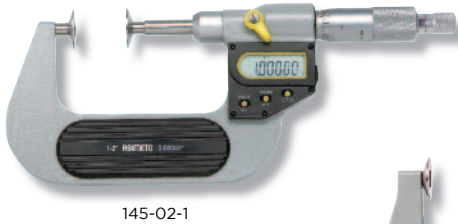
| Pitch | Notes | Code No. |
|----------------------|----------|-----------------|
| 0.4-7.0mm/64-3.5TPI | Set of 6 | 130-60-0 |
| 0.4-0.5mm/64-48TPI | 1 Set | 130-61-0 |
| 0.6-0.9mm/44-28TPI | 1 Set | 130-62-0 |
| 1.0-1.75mm/24-14TPI | 1 Set | 130-63-0 |
| 2.0-3.0mm/13-9TPI | 1 Set | 130-64-0 |
| 3.5-5.0mm/8-5TPI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

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

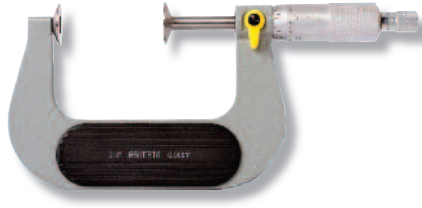


Disk Micrometers

141 / 145 Series



145-02-1



143-03-1



S-wrench



SR44 Battery



Standard

STANDARD ACCESSORIES

- S-wrench, SR44 Battery (Digital models), Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate
- Packaging:
Plastic case for models up to 100mm range
Wooden case for models over 100mm range
- Inch/Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Absolute or incremental measuring modes

FEATURES

- Resolution:
Digital: .00005" / 0.001mm
Scale on digital models: .0001" / 0.01mm
Scale on mechanical models: .0001" / 0.01mm
- For measuring gears and paper thickness
- Non rotating spindle for digital models
- Grey painted steel frame
- Ratchet stop

SPECIFICATIONS

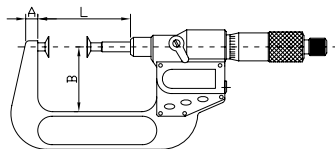
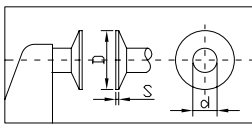
Digital models

| Inch | | Metric | | Inch | | Metric | |
|-------|----------|-----------|----------|----------|----------|----------|----------|
| Range | Accuracy | Range | Accuracy | Code No. | Code No. | Code No. | Code No. |
| 0-1" | ±0.001" | 0-25mm | ±0.005mm | 145-01-1 | 145-01-0 | | |
| 1-2" | ±0.002" | 25-50mm | ±0.005mm | 145-02-1 | 145-02-0 | | |
| 2-3" | ±0.002" | 50-75mm | ±0.006mm | 145-03-1 | 145-03-0 | | |
| 3-4" | ±0.002" | 75-100mm | ±0.006mm | 145-04-1 | 145-04-0 | | |
| 4-5" | ±0.002" | 100-125mm | ±0.007mm | 145-05-1 | 145-05-0 | | |
| 5-6" | ±0.002" | 125-150mm | ±0.007mm | 145-06-1 | 145-06-0 | | |
| 6-7" | ±0.002" | 150-175mm | ±0.008mm | 145-07-1 | 145-07-0 | | |
| 7-8" | ±0.002" | 175-200mm | ±0.008mm | 145-08-1 | 145-08-0 | | |

Mechanical models

| Inch | | Metric | | Inch code No. | | Metric code No. | |
|-------|----------|-----------|----------|------------------|----------------------|------------------|----------------------|
| Range | Accuracy | Range | Accuracy | Rotating spindle | Non-rotating spindle | Rotating spindle | Non-rotating spindle |
| 0-1" | ±0.001" | 0-25mm | ±0.005mm | 141-01-1 | 141-01-3 | 141-01-0 | 141-01-2 |
| 1-2" | ±0.002" | 25-50mm | ±0.005mm | 141-02-1 | 141-02-3 | 141-02-0 | 141-02-2 |
| 2-3" | ±0.002" | 50-75mm | ±0.006mm | 141-03-1 | 141-03-3 | 141-03-0 | 141-03-2 |
| 3-4" | ±0.002" | 75-100mm | ±0.006mm | 141-04-1 | 141-04-3 | 141-04-0 | 141-04-2 |
| 4-5" | ±0.002" | 100-125mm | ±0.007mm | 141-05-1 | 141-05-3 | 141-05-0 | 141-05-2 |
| 5-6" | ±0.002" | 125-150mm | ±0.007mm | 141-06-1 | 141-06-3 | 141-06-0 | 141-06-2 |
| 6-7" | ±0.002" | 150-175mm | ±0.008mm | 141-07-1 | 141-07-3 | 141-07-0 | 141-07-2 |
| 7-8" | ±0.002" | 175-200mm | ±0.008mm | 141-08-1 | 141-08-3 | 141-08-0 | 141-08-2 |

Dimension



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

Universal Micrometers

142 / 146 Series



146-01-0



S-wrench



SR44 Battery



Standard



Anvils



142-01-1

STANDARD ACCESSORIES

- S-wrench, SR44 Battery (Digital models), 7 pairs Anvils, Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate
- Packaging:
 - Plastic case for models up to 100mm range
 - Wooden case for models over 100mm range

FEATURES

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

SPECIFICATIONS

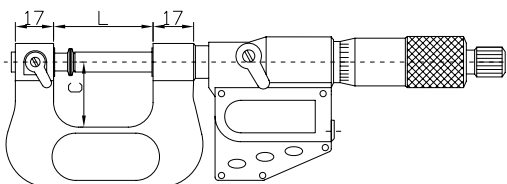
Digital models

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

Mechanical models

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

Dimension



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

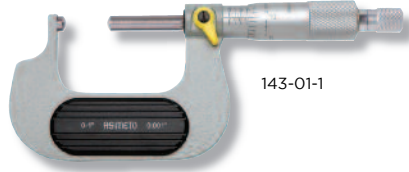
| Anvils | Type |
|------------|------|
| Flat | |
| Spherical | |
| Blade | |
| Point | |
| Spline | |
| Disk | |
| Knife-edge | |

Tube Micrometers

143 / 147 Series



147-01-1



143-01-1



S-wrench



SR44 Battery



Standard

STANDARD ACCESSORIES

- S-wrench, SR44 Battery (Digital models), Standard (over 1"/25mm range)
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Plastic case
- Inch/Metric conversion
- Upon switching on the display will read the actual absolute measuring position
- Automatic On/Off to maximize battery life
- Absolute or incremental measuring modes

FEATURES

- Resolution:
 - Digital reading: .00005" / 0.001mm
 - Scale on digital models: .0001" / 0.01mm
 - Scale on mechanical models: .0001" / 0.01mm
- Protection level IP65
- For measuring wall thickness of various tubes
- Carbide tipped measuring faces
- Grey painted steel frame
- Ratchet stop
- Anvils J and Anvils K are optional

SPECIFICATIONS

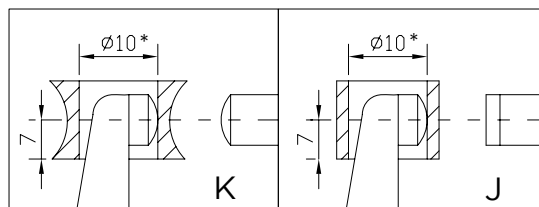
Digital models

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

Mechanical models

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

Dimension



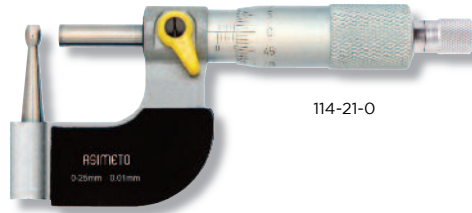
* Min dimension of measured diameter

Tube Micrometers

113 / 114 Series



113-01-1



114-21-0



S-wrench



SR44 Battery



Standard

STANDARD ACCESSORIES

- S-wrench, SR44 Battery (Digital models)
Standard (25-50mm range)
- Warranty card, Instruction manual,
Calibration certificate
- Packaging: Plastic case

FEATURES

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

SPECIFICATIONS

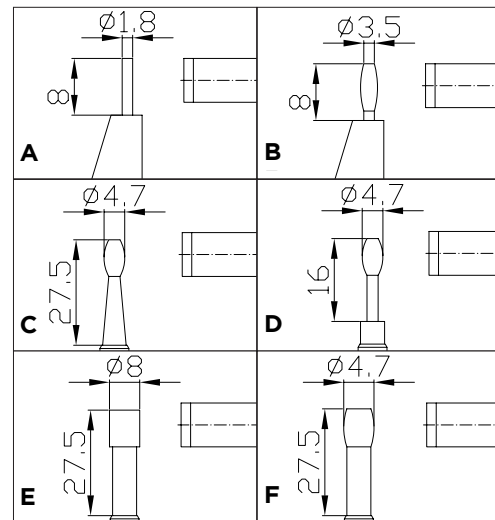
Digital models

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

Mechanical models

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

Dimension

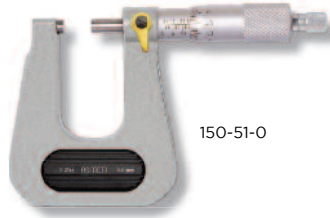


Deep Throat Micrometers

150 / 157 Series



157-51-1



150-51-0



S-wrench



SR44 Battery



Standard

STANDARD ACCESSORIES

- S-wrench, SR44 Battery (Digital models), Standard (25-50mm range)
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Wooden case

FEATURES

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

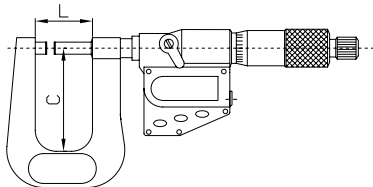
Digital models

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

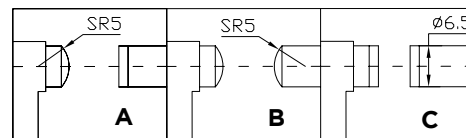
Mechanical models

| Throat depth | Inch | | Metric | | Inch Code No. | | | Metric Code No. | | |
|--------------|-------|----------|---------|----------|---------------|----------|----------|-----------------|----------|----------|
| | Range | Accuracy | Range | Accuracy | Type A | Type B | Type C | Type A | Type B | Type C |
| 50 | 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 |
| 50 | 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 |
| 100 | 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 |
| 100 | 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 |
| 150 | 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 |
| 150 | 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 |
| 300 | 0-1" | ±.0003" | 0-25mm | ±0.007mm | 150-01-7 | 150-31-7 | - | 150-01-6 | 150-31-6 | - |
| 300 | 1-2" | ±.0003" | 25-50mm | ±0.007mm | 150-02-7 | 150-32-7 | - | 150-02-6 | 150-32-6 | - |

Dimension



Anvils



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



Limit Micrometers

133 Series



133-31-1



S-wrench



Standard

FEATURES

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

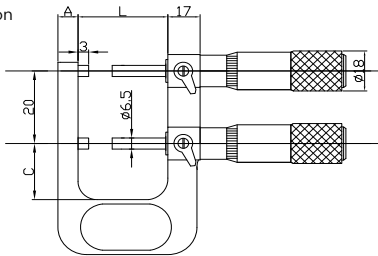
STANDARD ACCESSORIES

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

SPECIFICATIONS

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

Dimension



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

Wire Micrometers

161 Series

FEATURES

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



161-01-0



S-wrench

STANDARD ACCESSORIES

- S-wrench
- Warranty card, Calibration certificate
- Packaging: Wooden case

SPECIFICATIONS

| Inch | | Metric | | Inch | Metric |
|-------|----------|--------|----------|----------|----------|
| Range | Accuracy | Range | Accuracy | Code No. | Code No. |
| 0-.4" | ±.0001" | 0-25mm | ±0.004mm | 161-01-1 | 161-01-0 |



Sheet Metal Micrometers

150 Series



150-51-1



S-wrench

FEATURES

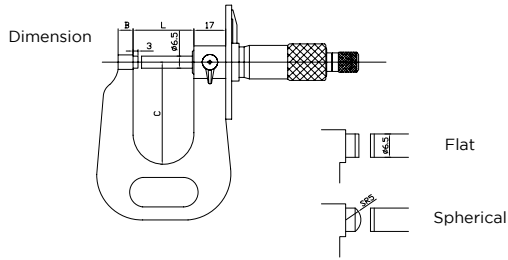
- Graduation: .001" / 0.01mm
- Grey painted steel frame
- Carbide tipped measuring faces
- The dial reading allows for quick reading of sheet metal thickness
- Ratchet stop

STANDARD ACCESSORIES

- S-wrench
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Wooden case

SPECIFICATIONS

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



| 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
- Packaging: Wooden case

S-wrench



Standard



SPECIFICATIONS

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

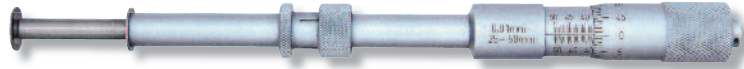


Groove Micrometers

163 Series



163-01-0



163-02-2



163-61-0



S-wrench



163-62-2

FEATURES

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

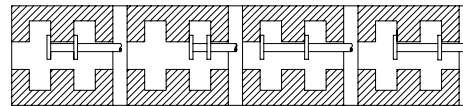
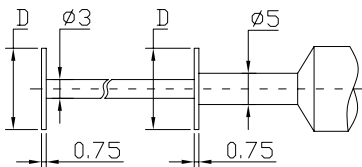
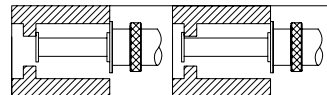
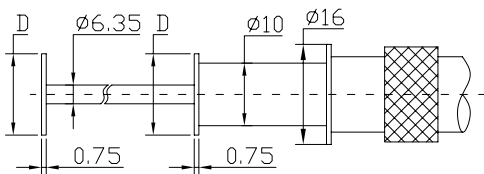
STANDARD ACCESSORIES

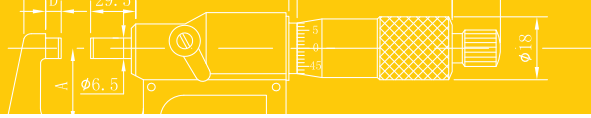
- S-wrench
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Wooden case

SPECIFICATIONS

| Inch | | Metric | | | Inch | | Metric | |
|--|---------------|--------------|----------|---------------|--------------|----------|----------|----------|
| Flange Diameter | Range Outside | Range Inside | Accuracy | Range outside | Range inside | Accuracy | Code No. | Code No. |
| Without measuring force | | | | | | | | |
| 6.5mm | 0-1" | .06-1.05" | ±0.001" | 0-25mm | 1.6-26.5mm | ±0.01mm | 163-01-1 | 163-01-0 |
| 13mm | 0-1" | .06-1.05" | ±0.001" | 0-25mm | 1.6-26.5mm | ±0.01mm | 163-01-3 | 163-01-2 |
| 13mm | 1-2" | 1.05-2.05" | ±0.001" | 25-50mm | 26.5-51.5mm | ±0.01mm | 163-02-3 | 163-02-2 |
| 13mm | 2-3" | 2.05-3.05" | ±0.001" | 50-75mm | 51.5-76.5mm | ±0.01mm | 163-03-3 | 163-03-2 |
| 13mm | 3-4" | 3.05-4.05" | ±0.001" | 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" | ±0.001" | 0-25mm | 1.6-26.5mm | ±0.01mm | 163-61-1 | 163-61-0 |
| 13mm | 0-1" | .06-1.05" | ±0.001" | 0-25mm | 1.6-26.5mm | ±0.01mm | 163-61-3 | 163-61-2 |
| 13mm | 1-2" | 1.05-2.05" | ±0.001" | 25-50mm | 26.5-51.5mm | ±0.01mm | 163-62-3 | 163-62-2 |
| 13mm | 2-3" | 2.05-3.05" | ±0.001" | 50-75mm | 51.5-76.5mm | ±0.01mm | 163-63-3 | 163-63-2 |
| 13mm | 3-4" | 3.05-4.05" | ±0.001" | 75-100mm | 76.5-101.5mm | ±0.01mm | 163-64-3 | 163-64-2 |

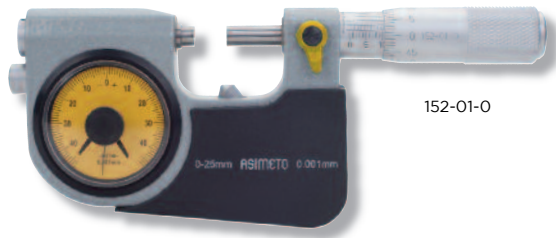
Dimension





Indicating Micrometers

152 Series



152-01-0



S-wrench



Standard

FEATURES

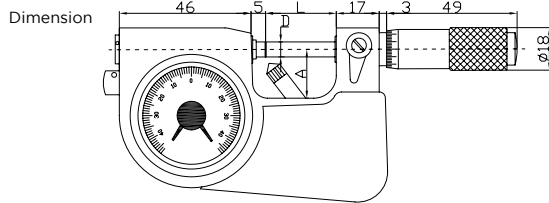
- Resolution:
Indicator: .00005" / 0.001mm
Scale: .0001" / 0.002mm
- Carbide tipped measuring faces
- Grey painted steel frame
- Indicator range: $\pm 0.04\text{mm}$
- Retractable anvil with an indicator for precision measurement of mass-produced parts

STANDARD ACCESSORIES

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

SPECIFICATIONS

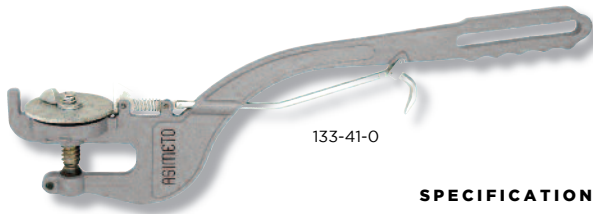
| Inch | | Metric | | Inch | | Metric | |
|-------|--------------|----------|----------------------|-----------------|-----------------|----------|----------|
| Range | Accuracy | Range | Accuracy | Code No. | Code No. | Code No. | Code No. |
| 0-1" | $\pm 0.001"$ | 0-25mm | $\pm 0.002\text{mm}$ | 152-01-1 | 152-01-0 | | |
| 1-2" | $\pm 0.002"$ | 25-50mm | $\pm 0.002\text{mm}$ | 152-02-1 | 152-02-0 | | |
| 2-3" | $\pm 0.002"$ | 50-75mm | $\pm 0.003\text{mm}$ | 152-03-1 | 152-03-0 | | |
| 3-4" | $\pm 0.002"$ | 75-100mm | $\pm 0.003\text{mm}$ | 152-04-1 | 152-04-0 | | |



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

Hot Sheet Micrometers

133 Series



133-41-0

FEATURES

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

SPECIFICATIONS

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

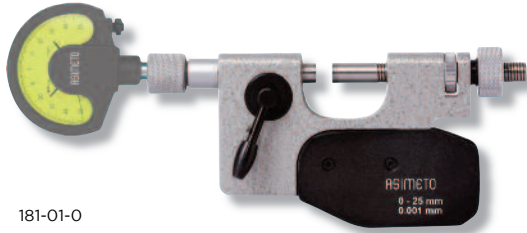
STANDARD ACCESSORIES

- Warranty card
- Packaging: Wooden case



Snap Gauges

181 Series



181-01-0

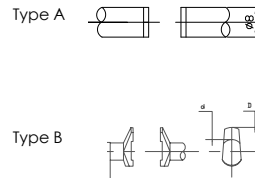
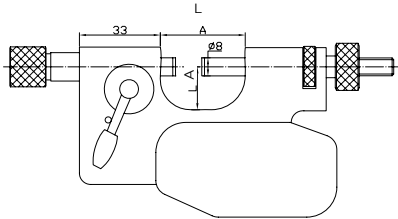
FEATURES

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

SPECIFICATIONS

| Inch | Metric | Inch | Metric |
|-------|-----------|-----------------|-----------------|
| Range | Range | Type A Code No. | Type B Code No. |
| 0-1" | 0-25mm | 181-01-1 | 181-01-3 |
| 0-2" | 0-50mm | 181-02-1 | 181-02-3 |
| 2-4" | 50-100mm | 181-04-1 | 181-04-3 |
| 4-6" | 100-150mm | 181-06-1 | 181-06-3 |
| 6-8" | 150-200mm | 181-08-1 | 181-08-3 |

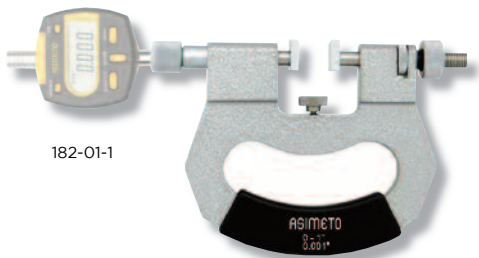
Dimension



| 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 in indicative of the dial gauge)
- 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

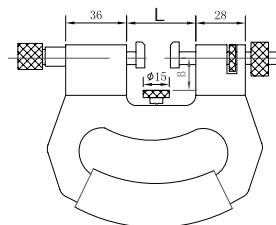
STANDARD ACCESSORIES

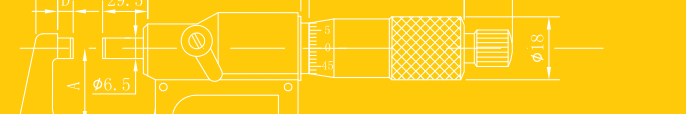
- Warranty card,
- Instruction manual
- Packaging: Wooden case

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" | 25-275mm | 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

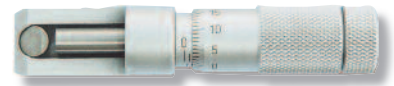
162 Series



162-01-0



162-01-2



162-01-4

FEATURES

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



S-wrench

STANDARD ACCESSORIES

- S-wrench
- Warranty card, Calibration certificate
- Packaging: Wooden case

SPECIFICATIONS

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

Digital Micrometer Heads

165 Series



165-01-1



S-wrench



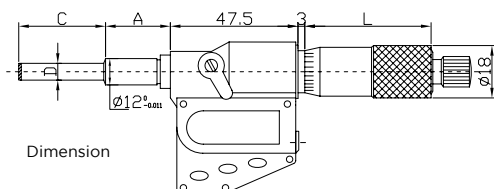
SR44 Battery

FEATURES

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

SPECIFICATIONS

| Inch | | Metric | | Inch | | Metric | |
|-------|----------|--------|----------|--------------------------|-----------|----------|----------|
| Range | Accuracy | Range | Accuracy | Measuring face | Clamp Nut | Code No. | Code No. |
| 0-1" | ±.0001" | 0-25mm | ±0.003mm | Flat & Carbide tipped | w/o | 165-01-1 | 165-01-0 |
| 0-1" | ±.0001" | 0-25mm | ±0.003mm | Spherical | w/o | 165-01-3 | 165-01-2 |
| 0-1" | ±.0001" | 0-25mm | ±0.003mm | With non-rotating device | w/o | 165-01-5 | 165-01-4 |
| 0-1" | ±.0001" | 0-25mm | ±0.003mm | Flat & Carbide tipped | with | 165-61-1 | 165-61-0 |
| 0-1" | ±.0001" | 0-25mm | ±0.003mm | Spherical | with | 165-61-3 | 165-61-2 |
| 0-1" | ±.0001" | 0-25mm | ±0.003mm | With non-rotating device | with | 165-61-5 | 165-61-4 |
| 0-2" | ±.0002" | 0-50mm | ±0.005mm | Flat & Carbide tipped | w/o | 165-02-1 | 165-02-0 |
| 0-2" | ±.0002" | 0-50mm | ±0.005mm | Spherical | w/o | 165-02-3 | 165-02-2 |



Dimension

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



Micrometer Heads

169 Series



169-05-7



169-05-0

FEATURES

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

STANDARD ACCESSORIES

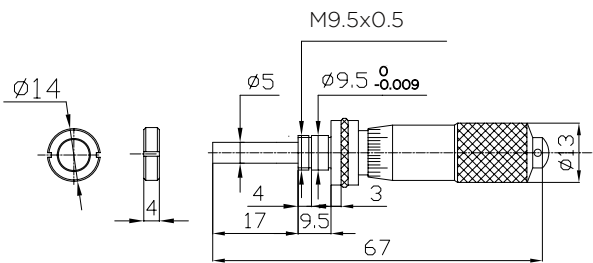
- S-wrench
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Wooden case

SPECIFICATIONS

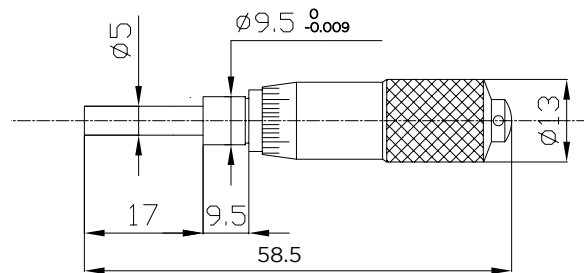
| Inch | | Metric | | | | | | Inch | Metric |
|-------|----------|--------|----------|------------------|--------------|---------------------|-----------|----------|----------|
| Range | Accuracy | Range | Accuracy | Spindle Diameter | Spindle Lock | Measuring Face | Clamp Nut | Code No. | Code No. |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

Dimension

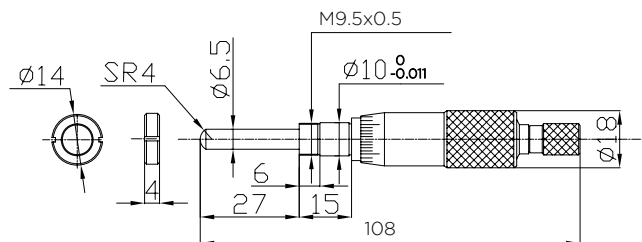
169-05-2/3 169-05-6/7 169-35-0/1



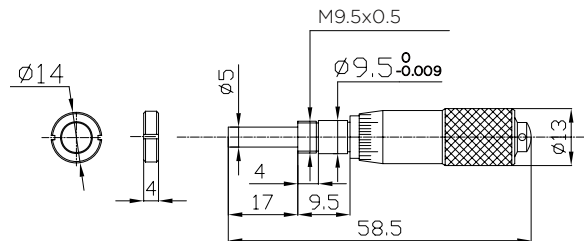
169-05-0/1 169-05-4/5 169-35-2/3



169-01-0/1



169-05-8/9





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

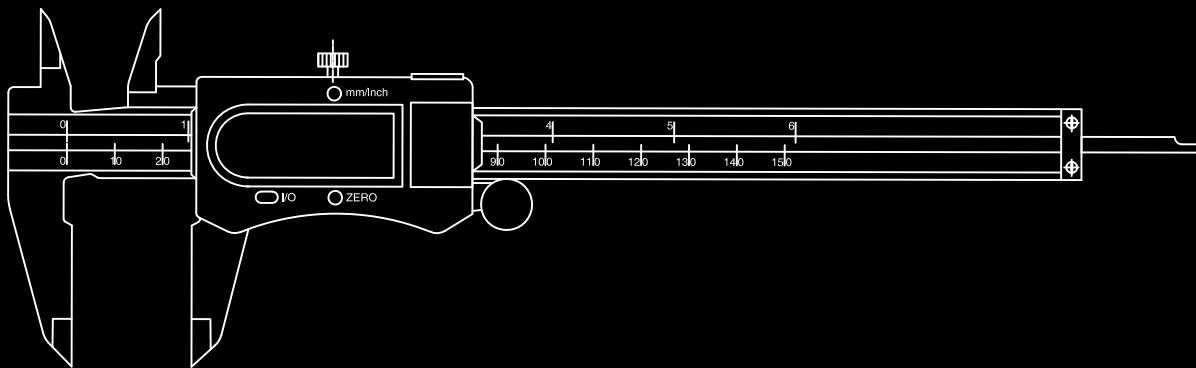
SPECIFICATIONS

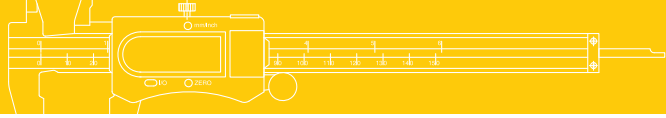
| Inch | | | |
|------|-----------|----------|----------|
| Size | Accuracy | Diameter | Code No. |
| 1" | ±0.00005" | Φ7mm | 110-01-1 |
| 2" | ±0.0001" | Φ7mm | 110-02-1 |
| 3" | ±0.0001" | Φ7mm | 110-03-1 |
| 4" | ±0.0001" | Φ8mm | 110-04-1 |
| 5" | ±0.00015" | Φ8mm | 110-05-1 |
| 6" | ±0.00015" |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

| Metric | | | |
|--------|-----------|----------|----------|
| Size | Accuracy | Diameter | Code No. |
| 25mm | ±0.002mm | Φ7mm | 110-01-0 |
| 50mm | ±0.0020mm | Φ7mm | 110-02-0 |
| 75mm | ±0.0020mm | Φ7mm | 110-03-0 |
| 100mm | ±0.0020mm | Φ8mm | 110-04-0 |
| 125mm | ±0.0020mm | Φ8mm | 110-05-0 |
| 150mm | ±0.0030mm | Φ8mm | 110-06-0 |
| 175mm | ±0.0030mm | Φ8mm | 110-07-0 |
| 200mm | ±0.0030mm | Φ8mm | 110-08-0 |
| 225mm | ±0.0040mm | Φ8mm | 110-09-0 |
| 250mm | ±0.0040mm | Φ8mm | 110-10-0 |
| 275mm | ±0.0040mm | Φ8mm | 110-11-0 |
| 300mm | ±0.0050mm | Φ16mm | 110-12-0 |
| 325mm | ±0.0050mm | Φ16mm | 110-13-0 |
| 350mm | ±0.0050mm | Φ16mm | 110-14-0 |
| 375mm | ±0.0050mm | Φ16mm | 110-15-0 |
| 400mm | ±0.0050mm | Φ16mm | 110-16-0 |
| 425mm | ±0.0050mm | Φ16mm | 110-17-0 |
| 450mm | ±0.0060mm | Φ16mm | 110-18-0 |
| 475mm | ±0.0060mm | Φ16mm | 110-19-0 |
| 500mm | ±0.0060mm | Φ16mm | 110-20-0 |
| 525mm | ±0.0060mm | Φ16mm | 110-21-0 |
| 575mm | ±0.0060mm | Φ16mm | 110-22-0 |
| 625mm | ±0.0070mm | Φ16mm | 110-23-0 |
| 675mm | ±0.0070mm | Φ16mm | 110-24-0 |
| 725mm | ±0.0070mm | Φ16mm | 110-25-0 |
| 775mm | ±0.0080mm | Φ16mm | 110-26-0 |
| 825mm | ±0.0080mm | Φ16mm | 110-27-0 |
| 875mm | ±0.0080mm | Φ16mm | 110-28-0 |
| 925mm | ±0.0080mm | Φ16mm | 110-29-0 |
| 975mm | ±0.0080mm | Φ16mm | 110-30-0 |
| 1050mm | ±0.0090mm | Φ23mm | 110-31-0 |
| 1150mm | ±0.0090mm | Φ23mm | 110-32-0 |
| 1250mm | ±0.0090mm | Φ23mm | 110-33-0 |
| 1350mm | ±0.0105mm | Φ23mm | 110-34-0 |
| 1450mm | ±0.0105mm | Φ23mm | 110-35-0 |
| 1550mm | ±0.0105mm | Φ23mm | 110-36-0 |
| 1650mm | ±0.0125mm | Φ23mm | 110-37-0 |
| 1750mm | ±0.0125mm | Φ23mm | 110-38-0 |
| 1850mm | ±0.0125mm | Φ23mm | 110-39-0 |
| 1950mm | ±0.0125mm | Φ23mm | 110-40-0 |
| 2050mm | ±0.0150mm | Φ34mm | 110-41-0 |
| 2150mm | ±0.0150mm | Φ34mm | 110-42-0 |
| 2250mm | ±0.0150mm | Φ34mm | 110-43-0 |
| 2350mm | ±0.0150mm | Φ34mm | 110-44-0 |
| 2450mm | ±0.0150mm | Φ34mm | 110-45-0 |
| 2550mm | ±0.0180mm | Φ34mm | 110-46-0 |
| 2650mm | ±0.0180mm | Φ34mm | 110-47-0 |
| 2750mm | ±0.0180mm | Φ34mm | 110-48-0 |
| 2850mm | ±0.0180mm | Φ34mm | 110-49-0 |
| 2950mm | ±0.0180mm | Φ34mm | 110-50-0 |

Calipers

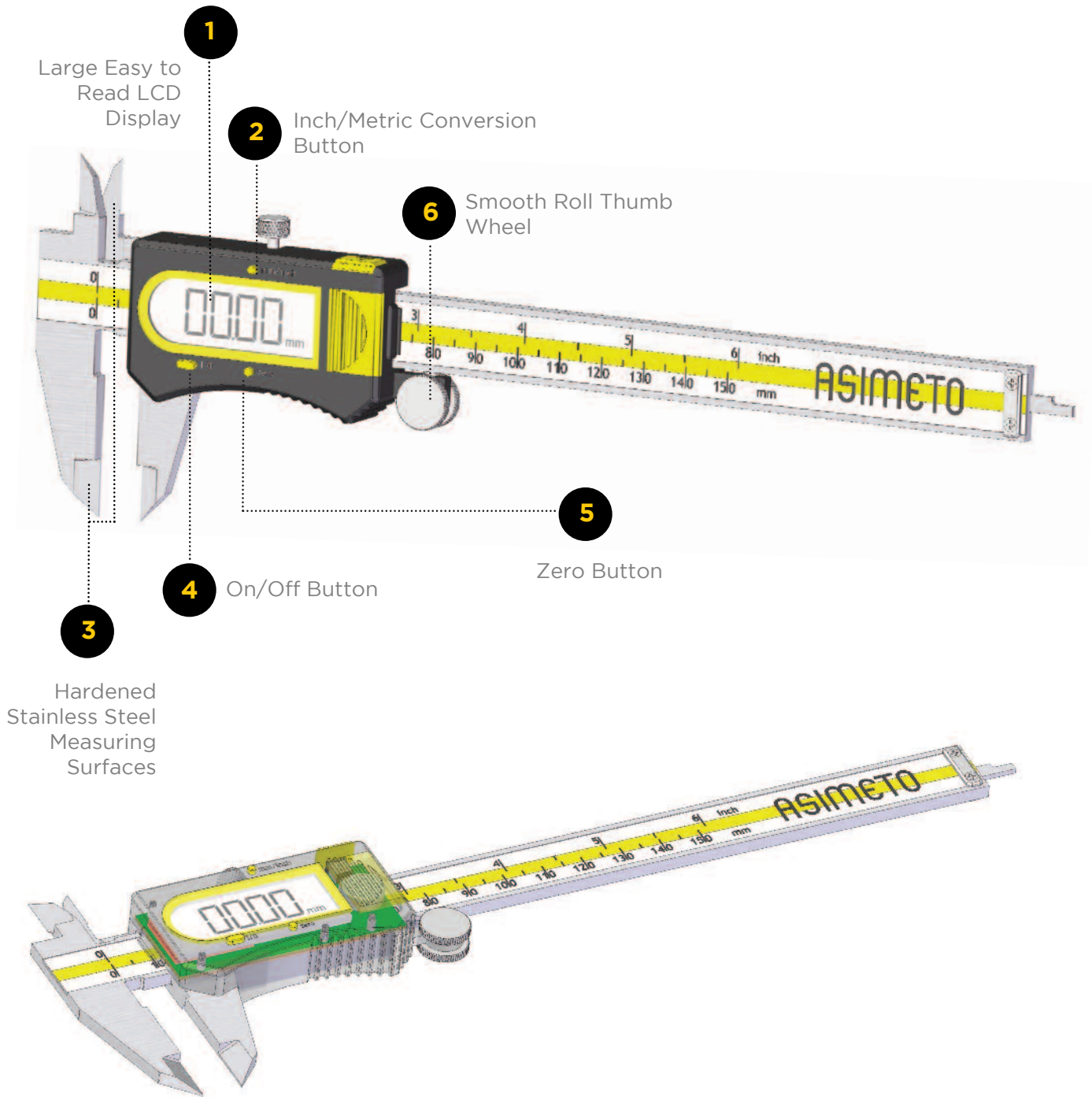
- 38 Absolute Digital Calipers
- 38 IP67 Coolant Proof Digital Calipers
- 39 Digital Calipers
- 40 Carbon Fiber Digital Calipers
- 41 Dial Calipers
- 42 Vernier Calipers
- 44 Heavy Duty Digital Calipers
- 45 Heavy Duty Vernier Calipers
- 48 Digital Caliper for Outside/Inside Grooves
- 49 Hook Type Digital Calipers
- 49 Mini-type 3-purpose Digital Calipers
- 50 Digital Tube Calipers
- 50 Digital Calipers With Adjustable Measuring Jaw
- 51 Solar Digital Calipers
- 51 Digital Gear Tooth Calipers
- 52 Welding Fillet Gauges
- 52 Digital Gauges With Single Wide Measuring Face
- 53 Digital Scales
- 54 Digital Thickness Gauges
- 55 Circle Vernier Calipers
- 55 Marking Calipers

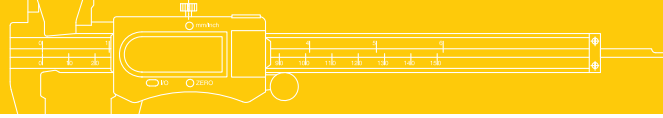




ASIMETO Digital Calipers

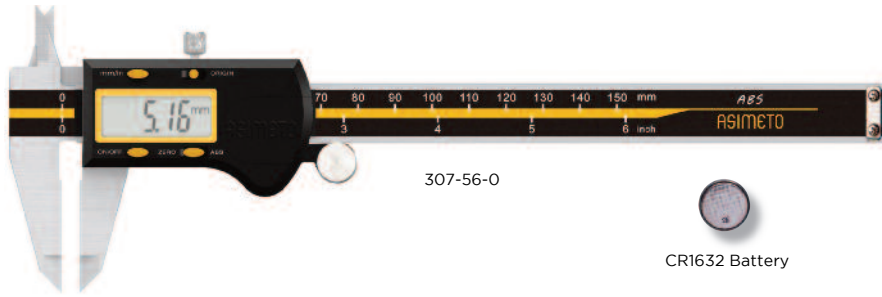
Features:





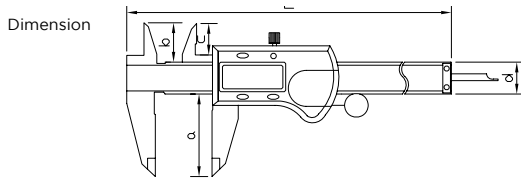
Absolute Digital Calipers

307 Series



SPECIFICATIONS

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



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

FEATURES

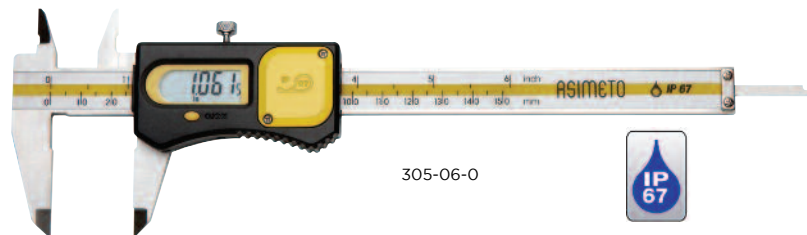
- Resolution: .0005" / 0.01mm
- The caliper will be ready for measurements as soon as it is switched on with the LCD screen displaying the actual slider position. There is no need to set the zero position each time the caliper is used as the origin setting is retained even when the caliper is switched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

STANDARD ACCESSORIES

- CR1632 3.0V Battery
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Plastic case
Wooden case (0-300mm range)

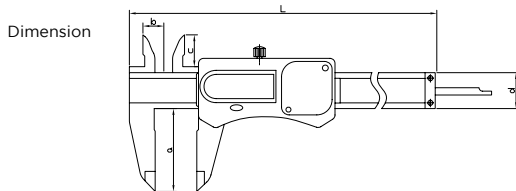
IP67 Digital Calipers

305 Series



SPECIFICATIONS

| Inch | | Metric | | Code No. |
|-------|----------|---------|----------|-----------------|
| Range | Accuracy | Range | Accuracy | |
| 0-6" | ±.001" | 0-150mm | ±0.02mm | 305-06-0 |



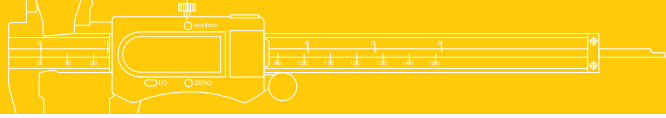
| Range | L | a | b |
|--------------|-----|----|----|
| Inch/Metric | mm | mm | mm |
| 0-6"/0-150mm | 240 | 41 | 22 |

FEATURES

- Resolution: .0005" / 0.01mm
- Conforms to the IP67 ratings
- Extra large LCD readout
- Inch/Metric conversion
- The design will allow the caliper to used in normal workshop conditions and is resistant to coolant, water, dust or oil
- Auto power on/off

STANDARD ACCESSORIES

- CR2032 3.0V Battery, Screwdriver
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Plastic case



Digital Caliper

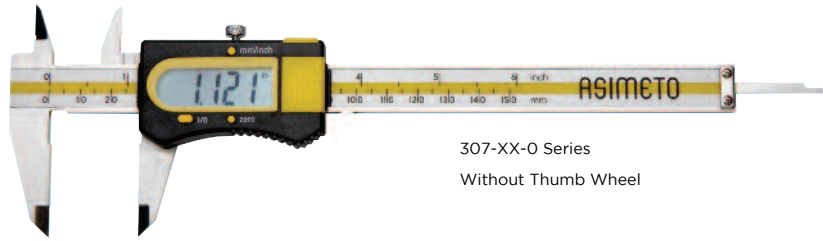
307 Series

FEATURES

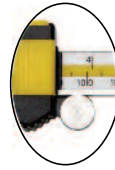
- Resolution: .0005" / 0.01mm
- Extra large LCD readout
- The origin position is retained through the on/off cycle
- Inch/Metric conversion
- Three models are optional

STANDARD ACCESSORIES

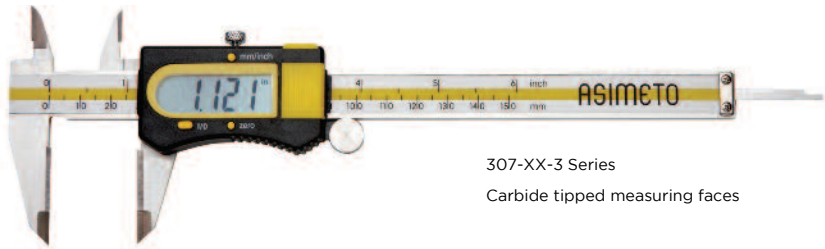
- SR44 Battery
- Warranty card, Instruction manual, Calibration certificate
- Packaging:
 - Plastic case
 - Wooden case (0-300mm range)



307-XX-0 Series
Without Thumb Wheel



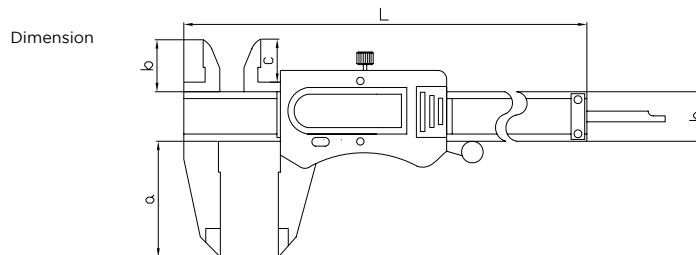
307-XX-1 Series
With Thumb Wheel



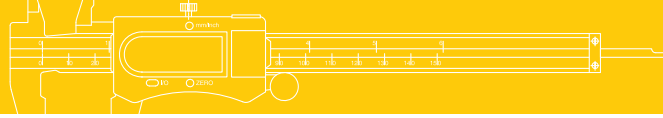
307-XX-3 Series
Carbide tipped measuring faces

SPECIFICATIONS

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

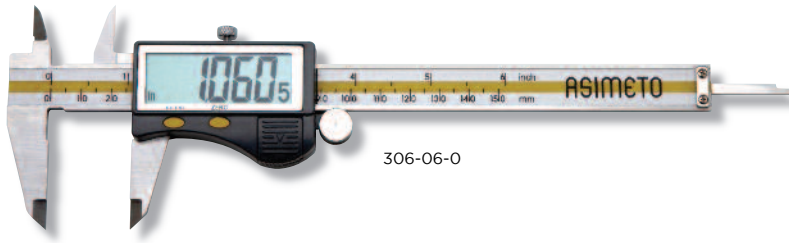


| Range | L | a | b | c | d |
|---------------|-----|----|----|------|----|
| Inch/Metric | mm | mm | mm | mm | mm |
| 0-6"/0-150mm | 236 | 40 | 21 | 16.5 | 16 |
| 0-8"/0-200mm | 286 | 50 | 24 | 19.5 | 16 |
| 0-12"/0-300mm | 400 | 60 | 25 | 20.5 | 17 |



Digital Calipers

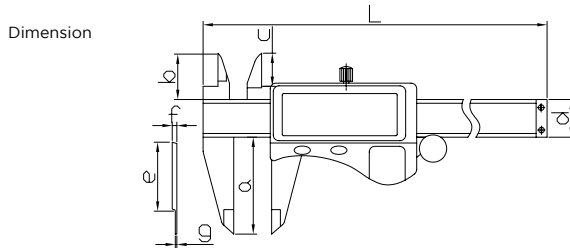
306 Series



306-06-0

SPECIFICATIONS

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



| Range | L | a | b | c | d | e | f | g |
|---------------|-----|----|----|------|----|----|-----|------|
| Inch/Metric | mm | mm | mm | mm | mm | mm | mm | mm |
| 0-6"/0-150mm | 236 | 40 | 21 | 16.5 | 16 | 20 | 3.2 | 0.75 |
| 0-8"/0-200mm | 286 | 50 | 24 | 19.5 | 16 | 20 | 3.6 | 0.75 |
| 0-12"/0-300mm | 400 | 60 | 25 | 20.5 | 17 | 20 | 3.8 | 1 |

FEATURES

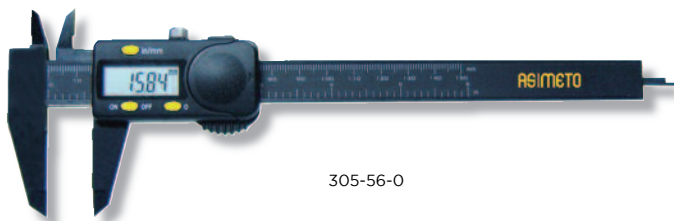
- Resolution: .0005" / 0.01mm
- Extra large (5/8") LCD readout
- Inch/Metric conversion
- Automatic On/Off to maximize battery life
- Automatic on feature is activated by moving slider
- The origin position is retained through the on/off cycle
- Thumb roller included

STANDARD ACCESSORIES

- SR44 Battery
- Warranty card, Instruction manual, Calibration certificate
- Packaging:
 - Plastic case
 - Wooden case (0-300mm range)

Carbon Fiber Digital Calipers

305-Series



305-56-0

SPECIFICATIONS

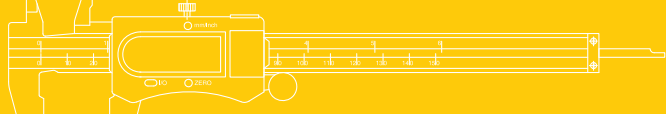
| Inch | | Metric | | Code No. |
|-------|----------|---------|----------|-----------------|
| Range | Accuracy | Range | Accuracy | |
| 0-6" | ±.001" | 0-150mm | ±0.08mm | 305-56-0 |

FEATURES

- Resolution: .0005" / 0.01mm
- Zero at any position
- Inch/Metric conversion
- Light weight digital calipers that employ CFRP (Carbon Fiber Reinforced Plastics) in the beam and jaws
- High durable and easy to handle

STANDARD ACCESSORIES

- SR44 Battery
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Plastic case



Dial Calipers

303 / 304 / 308 Series

FEATURES

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

Aluminum models

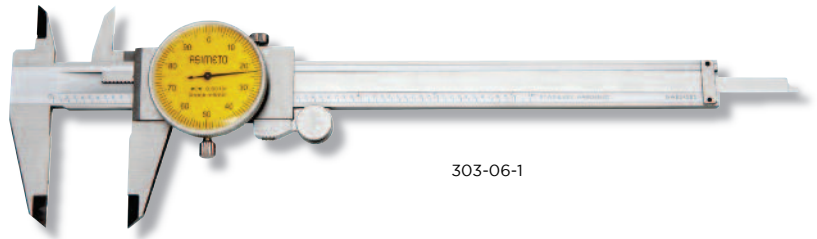
- Sturdy aluminum ergonomic diecast housing can be used without damage in the harshest of manufacturing environments, including situations with hot steel chips
- The dual pinion mechanism offers extra smooth operation

Carbide tipped measuring faces models

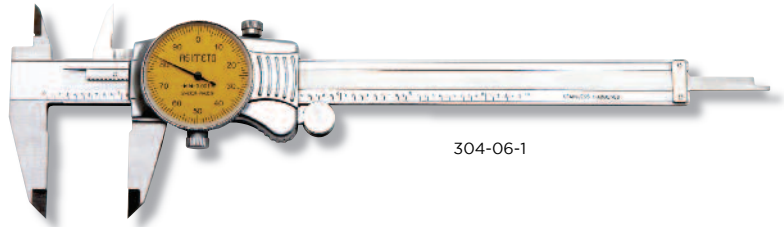
- Both ID & OD measuring surfaces are carbide tipped to increase caliper life by preventing wear

STANDARD ACCESSORIES

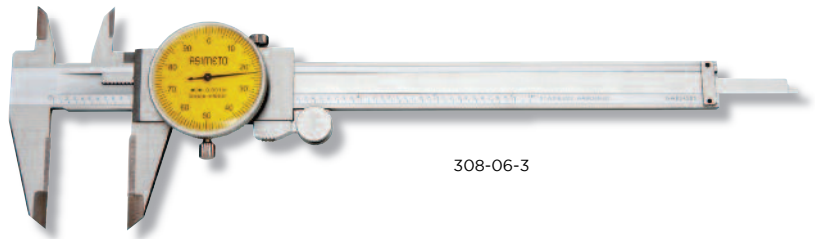
- Warranty card, Instruction manual, Calibration certificate
- Packaging:
 - Plastic case
 - Wooden case (0-300mm range)



303-06-1



304-06-1

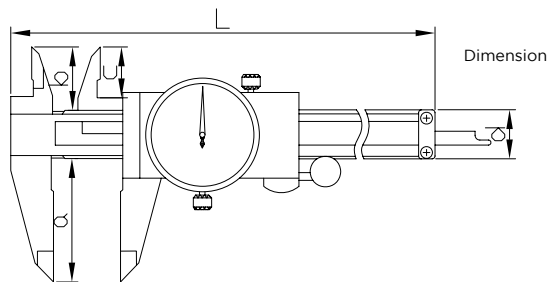


308-06-3

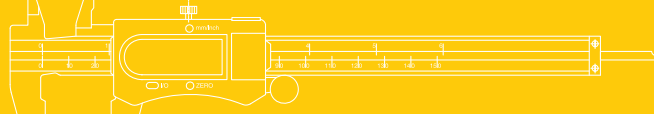
SPECIFICATIONS

| Inch | | |
|-------------------------------------|----------|-----------------|
| Range | Accuracy | Code No. |
| Standard models | | |
| 0-6" | ±.001" | 303-06-1 |
| 0-8" | ±.0015" | 303-08-1 |
| 0-12" | ±.0015" | 303-12-1 |
| Aluminum dial housing models | | |
| 0-6" | ±.001" | 304-06-1 |
| 0-8" | ±.0015" | 304-08-1 |
| 0-12" | ±.0015" | 304-12-1 |
| Carbide Tip models | | |
| 0-6" | ±.001" | 308-06-3 |
| 0-8" | ±.0015" | 308-08-3 |
| 0-12" | ±.0015" | 308-12-3 |

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



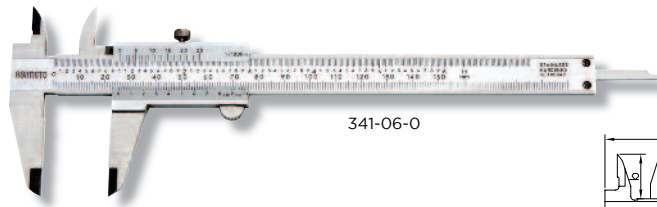
| Range | L | a | b | c | d |
|---------------|-----|----|------|------|----|
| Inch/Metric | mm | mm | mm | mm | mm |
| 0-6"/0-150mm | 234 | 40 | 21 | 16.5 | 16 |
| 0-8"/0-200mm | 290 | 50 | 23.5 | 19 | 17 |
| 0-12"/0-300mm | 393 | 64 | 24.5 | 20 | 17 |



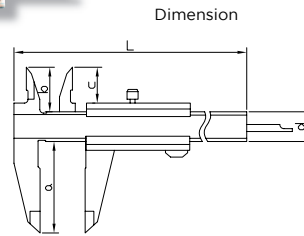
Vernier Calipers

341 / 351 Series

Plain



341-06-0



FEATURES

- Graduation:
Inch: .001"
Metric: 0.02mm or 0.05mm
- Various models available with an assortment of dual scales
- Measuring surface 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

| Range | L | a | b | c | d |
|---------------|-----|----|------|------|----|
| Inch/Metric | mm | mm | mm | mm | mm |
| 0-6"/0-150mm | 235 | 40 | 21 | 16.5 | 16 |
| 0-8"/0-200mm | 297 | 50 | 23.5 | 19 | 16 |
| 0-12"/0-300mm | 410 | 64 | 27 | 22 | 20 |

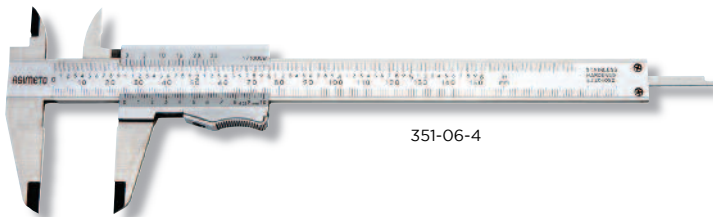
STANDARD ACCESSORIES

- Warranty card, Instruction manual, Calibration certificate
- Packaging: Lather bag

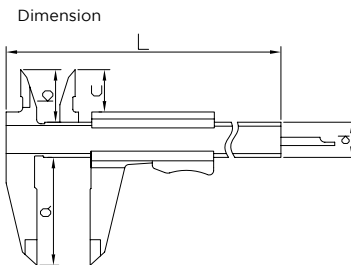
SPECIFICATIONS

| Range | Graduation | Range | Graduation | Accuracy | Note | Code No. |
|---------|------------|-------|------------|----------|-----------------------------------|-----------------|
| Lower | Lower | Upper | Upper | | | |
| 0-6" | .001" | 0-6" | 1/128" | ±.001" | upper lock | 341-06-1 |
| 0-150mm | 0.05mm | 0-6" | 1/128" | ±0.05mm | upper lock | 341-06-0 |
| 0-150mm | 0.05mm | 0-6" | 1/128" | ±0.05mm | lower locking screw | 341-66-0 |
| 0-200mm | 0.05mm | 0-8" | 1/128" | ±0.05mm | upper lock | 341-08-0 |
| 0-300mm | 0.05mm | 0-12" | 1/128" | ±0.05mm | upper lock | 341-12-0 |
| 0-150mm | 0.05mm | 0-6" | 1/128" | ±0.05mm | with round depth bar Φ 1.8mm | 341-06-2 |
| 0-150mm | 0.02mm | 0-6" | 0.001" | ±0.02mm | upper lock | 341-06-4 |
| 0-200mm | 0.02mm | 0-8" | 0.001" | ±0.03mm | upper lock | 341-08-4 |
| 0-300mm | 0.02mm | 0-12" | 0.001" | ±0.04mm | upper lock | 341-12-4 |

Thumb Clamp



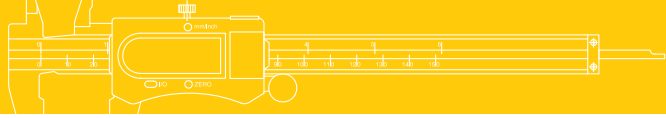
351-06-4



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

SPECIFICATIONS

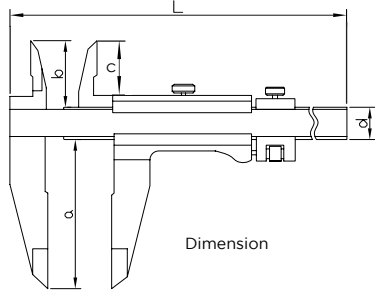
| Range | Graduation | Range | Graduation | Accuracy | Note | Code No. |
|---------|------------|-------|------------|----------|-----------------------------------|-----------------|
| Lower | Lower | Upper | Upper | | | |
| 0-6" | .001" | 0-6" | 1/128" | ±.001" | - | 351-06-1 |
| 0-8" | .001" | 0-8"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



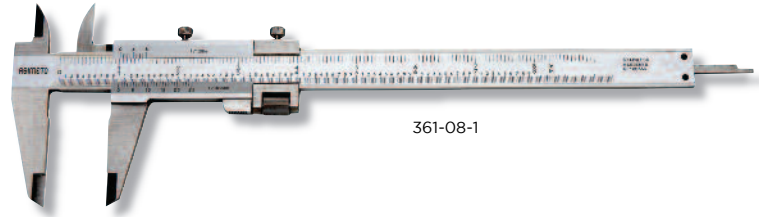
Vernier Calipers

361 / 302 Series

Fine adjustment



Dimension



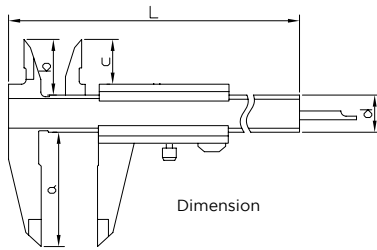
361-08-1

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

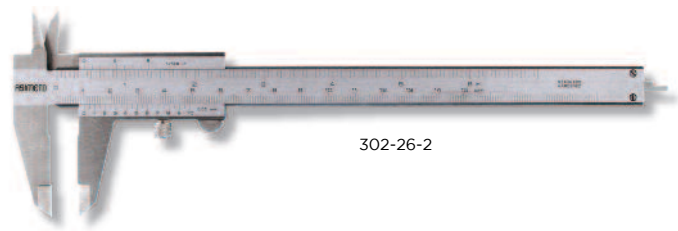
SPECIFICATIONS

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

Modified "V" type beam



Dimension



302-26-2

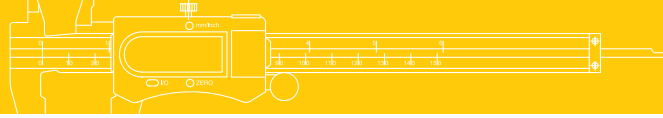
| Range | L | a | b | c | d |
|--------------|-----|----|----|------|----|
| Inch/Metric | mm | mm | mm | mm | mm |
| 0-6"/0-150mm | 235 | 40 | 21 | 16.5 | 16 |

FEATURES

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

SPECIFICATIONS

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



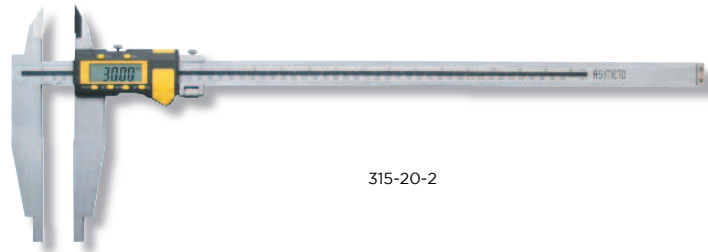
Heavy Duty Digital Calipers

315 Series



315-12-0

CR2032 Battery



315-20-2

FEATURES

- Resolution: .0005" / 0.01mm
- Designed with fine adjustment to allow precise movement of the slider
- Internal measurement jaws are rounded to provide accurate measurement of internal diameters
- Minimum internal diameter measurement capability of 20mm
- Inch/Metric conversion
- Six buttons
- Zero setting at any position
- Models are available with or without upper jaws

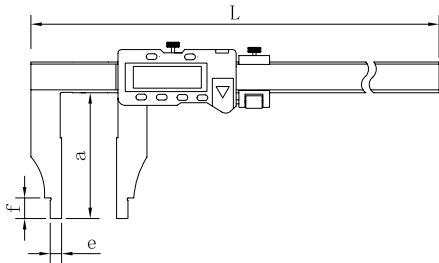
STANDARD ACCESSORIES

- CR2032 3.0V Battery 2 pcs
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Wooden case

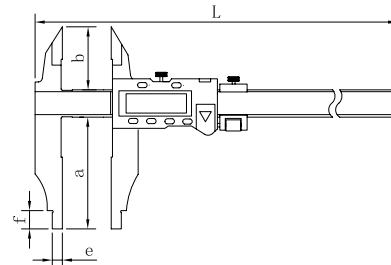
SPECIFICATIONS

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

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

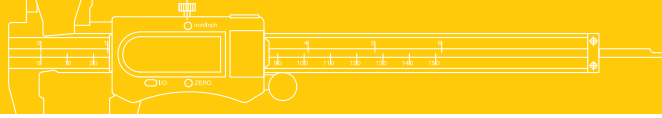


Dimension



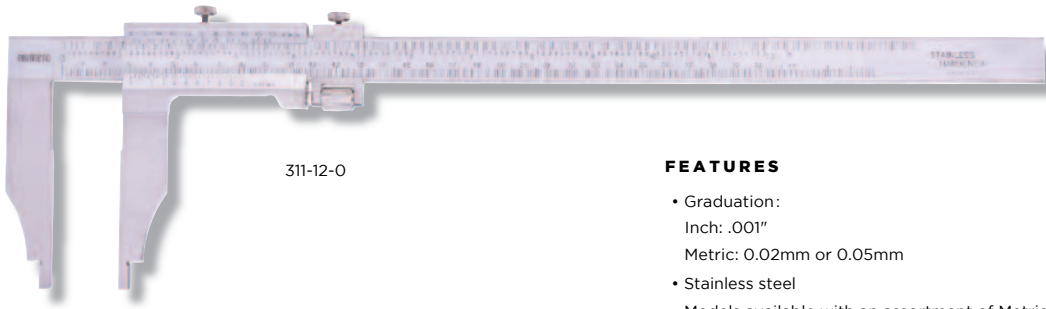
| Range | L | a | d | e |
|----------------|------|-----|----|----|
| Inch/Metric | mm | mm | mm | mm |
| 0-12"/0-300mm | 470 | 100 | 25 | 18 |
| 0-20"/0-500mm | 680 | 150 | 25 | 18 |
| 0-32"/0-800mm | 1030 | 150 | 32 | 25 |
| 0-40"/0-1000mm | 1230 | 200 | 32 | 25 |

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



Heavy Duty Vernier Calipers

311 Series



311-12-0

FEATURES

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

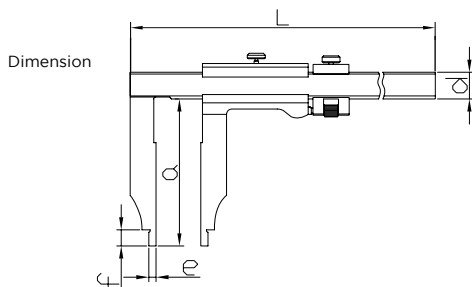
STANDARD ACCESSORIES

- Warranty card, instruction manual, Calibration certificate
- Packaging: Wooden case

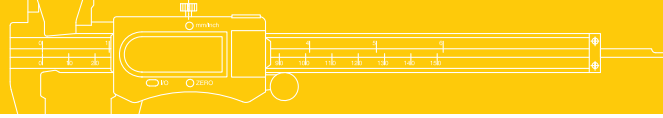
SPECIFICATIONS

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

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

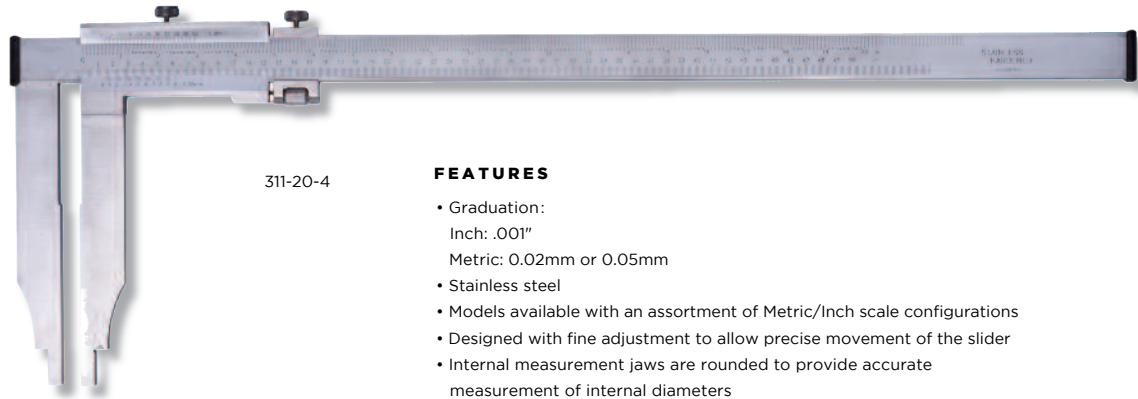


| Range | L | a | d | e | f |
|------------------|------|-----|----|----|----|
| Inch/Metric | mm | mm | mm | mm | mm |
| 0-12" / 0-300mm | 450 | 75 | 20 | 5 | 12 |
| 0-18" / 0-450mm | 685 | 100 | 25 | 10 | 25 |
| 0-24" / 0-600mm | 835 | 100 | 32 | 10 | 25 |
| 0-32" / 0-800mm | 1035 | 150 | 32 | 10 | 25 |
| 0-40" / 0-1000mm | 1235 | 150 | 32 | 10 | 25 |
| 0-60" / 0-1500mm | 1760 | 200 | 32 | 10 | 25 |
| 0-80" / 0-2000mm | 2270 | 200 | 32 | 10 | 25 |



Long Jaw Vernier Calipers

311 Series



311-20-4

FEATURES

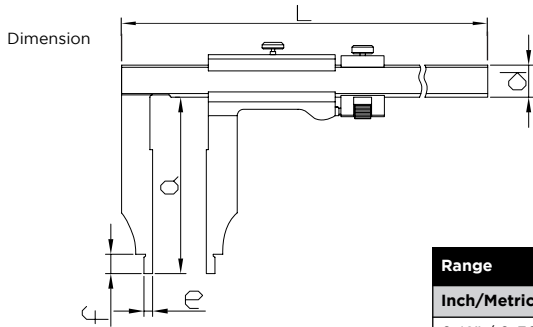
- Graduation:
Inch: .001"
Metric: 0.02mm or 0.05mm
- Stainless steel
- Models available with an assortment of Metric/Inch scale configurations
- Designed with fine adjustment to allow precise movement of the slider
- Internal measurement jaws are rounded to provide accurate measurement of internal diameters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

STANDARD ACCESSORIES

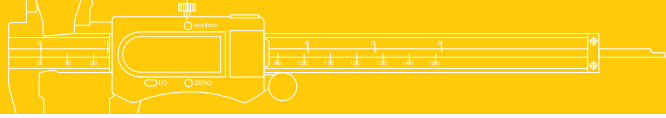
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Wooden case

SPECIFICATIONS

| Range | Graduation | Range | Graduation | Accuracy | Jaw Length | Code No. |
|----------|------------|----------|------------|----------|------------|-----------------|
| Lower | Lower | Upper | Upper | | | |
| 0-12" | .001" | 0-300mm | 0.02mm | ±0.015" | 90mm | 311-12-3 |
| 0-20" | .001" | 0-500mm | 0.02mm | ±0.020" | 200mm | 311-20-3 |
| 0-30" | .001" | 0-750mm | 0.02mm | ±0.020" | 200mm | 311-30-3 |
| 0-40" | .001" | 0-1000mm | 0.02mm | ±0.030" | 200mm | 311-40-3 |
| 0-300mm | 0.02mm | 0-12" | .001" | ±0.04mm | 90mm | 311-12-4 |
| 0-500mm | 0.02mm | 0-20" | .001" | ±0.05mm | 200mm | 311-20-4 |
| 0-750mm | 0.02mm | 0-30" | .001" | ±0.07mm | 200mm | 311-30-4 |
| 0-1000mm | 0.02mm | 0-40" | .001" | ±0.07mm | 200mm | 311-40-4 |
| 0-300mm | 0.05mm | 0-12" | 1/128" | ±0.05mm | 90mm | 311-12-6 |
| 0-500mm | 0.05mm | 0-20" | 1/128" | ±0.08mm | 200mm | 311-20-6 |
| 0-750mm | 0.05mm | 0-30" | 1/128" | ±0.10mm | 200mm | 311-30-6 |
| 0-1000mm | 0.05mm | 0-40" | 1/128" | ±0.10mm | 200mm | 311-40-6 |

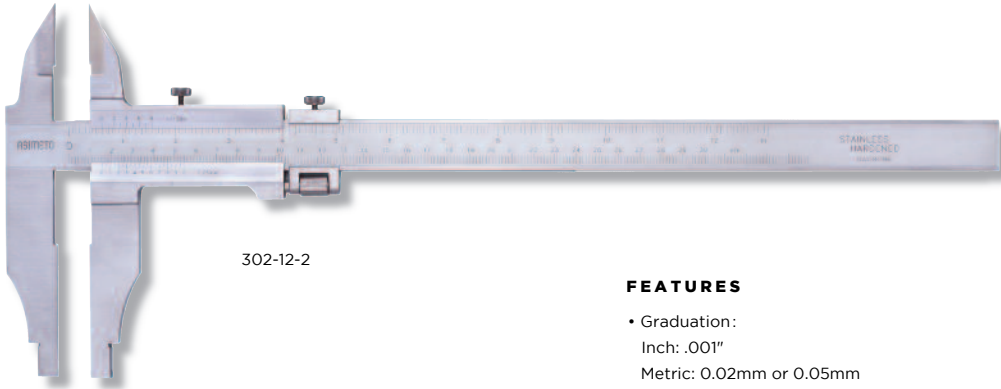


| Range | L | a | d | e | f |
|------------------|------|-----|----|----|----|
| Inch/Metric | mm | mm | mm | mm | mm |
| 0-12" / 0-300mm | 450 | 90 | 20 | 5 | 12 |
| 0-20" / 0-500mm | 735 | 200 | 25 | 10 | 25 |
| 0-30" / 0-750mm | 985 | 200 | 32 | 10 | 25 |
| 0-40" / 0-1000mm | 1235 | 200 | 32 | 10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



Heavy Duty Vernier Caliper With Upper Knife-edge

302 Series



302-12-2

STANDARD ACCESSORIES

- Warranty card, Instruction manual, Calibration certificate
- Packaging: Wooden case

FEATURES

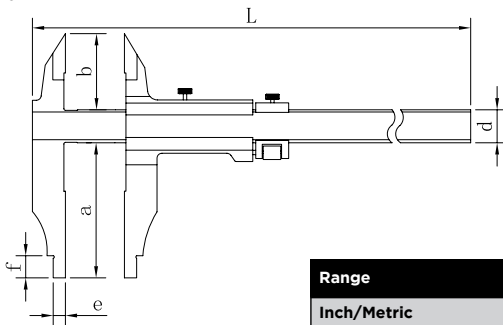
- Graduation:
Inch: .001"
Metric: 0.02mm or 0.05mm
- With upper knife-edge for external diameter measurement
- With fine adjustment carriage to feed the slider finely
- Stainless steel
- Models available with an assortment of Metric/Inch scale configurations
- Internal measurement jaws are rounded to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

SPECIFICATIONS

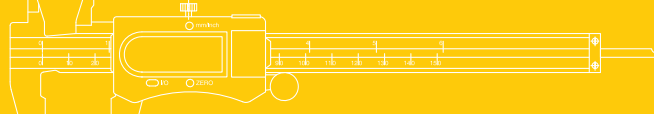
| Range | Graduation | Range | Graduation | Accuracy | Jaw Length | Code No. |
|----------|------------|----------|------------|----------|------------|-----------------|
| Lower | Lower | Upper | Upper | | | |
| 0-12" | .001" | 0-300mm | 0.02mm | ±.0015" | 56mm+100mm | 302-12-1 |
| 0-20" | .001" | 0-500mm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

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

Dimension

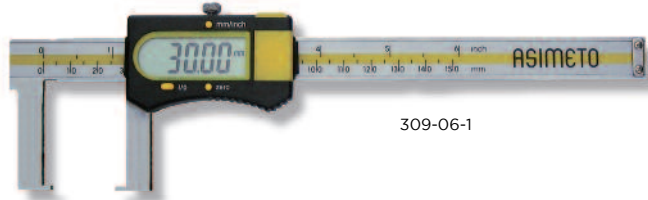


| Range | L | a | b | d | e | f |
|---------------|------|-----|----|----|----|----|
| Inch/Metric | mm | mm | mm | mm | mm | mm |
| 0-12"/0-300mm | 470 | 100 | 56 | 25 | 10 | 18 |
| 0-20"/0-500mm | 735 | 150 | 67 | 32 | 10 | 25 |
| 0-32"/0-800mm | 1035 | 150 | 67 | 32 | 10 | 25 |



Digital Calipers for Outside/Inside Groove

309 / 315 Series



309-06-1



315-06-7

FEATURES

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

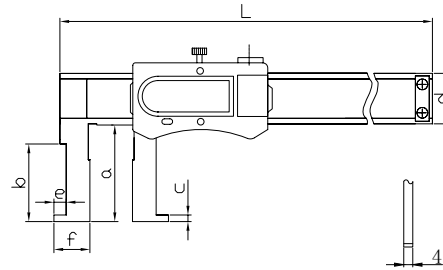
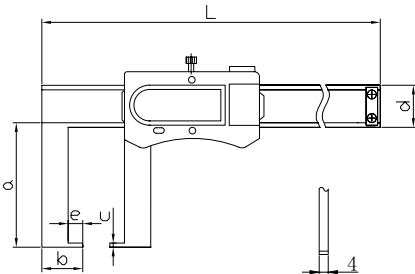
STANDARD ACCESSORIES

- SR44 Battery
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Wooden case

SPECIFICATIONS

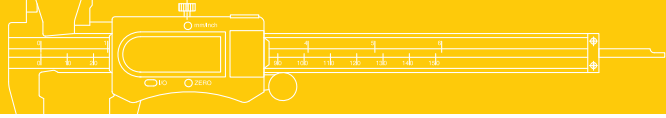
| Inch | | | Metric | | | Code No. |
|-----------------------|------------|----------|----------|------------|----------|-----------------|
| Range | Resolution | Accuracy | Range | Resolution | Accuracy | |
| Outside groove | | | | | | |
| 0-6" | .0005" | ±.001" | 0-150mm | 0.01mm | ±0.03mm | 309-06-1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

Dimension



| Range | L | a | b | c | d | e |
|---------------|-----|----|----|----|----|----|
| Inch/Metric | mm | mm | mm | mm | mm | mm |
| 0-6"/0-150mm | 250 | 40 | 15 | 1 | 16 | 5 |
| 0-8"/0-200mm | 310 | 50 | 19 | 1 | 16 | 7 |
| 0-12"/0-300mm | 400 | 60 | 21 | 2 | 20 | 10 |

| Range | L | a | b | c | d | e | f |
|-----------------|-----|----|----|-----|----|----|------|
| Inch/Metric | mm | mm | mm | mm | mm | mm | mm |
| .8-6"/20-150mm | 250 | 36 | 30 | 1 | 16 | 5 | 11 |
| 1.4-6"/35-150mm | 250 | 66 | 60 | 1.5 | 16 | 6 | 17.5 |
| 1.6-8"/40-200mm | 310 | 76 | 70 | 1.5 | 16 | 7 | 20 |
| 2-12"/50-300mm | 410 | 86 | 80 | 1.5 | 17 | 8 | 25 |



Hook Type Digital Calipers

325 Series

FEATURES

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



325-05-0

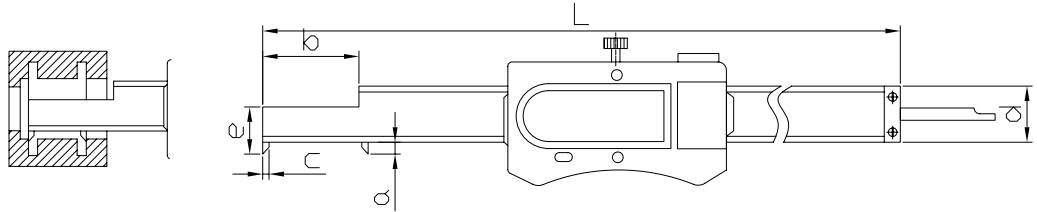
STANDARD ACCESSORIES

- SR44 Battery
- Warranty card, Instruction manual
- Packaging: Plastic case

SPECIFICATIONS

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

Dimension



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

Mini-type 3-purpose Digital Calipers

305 Series

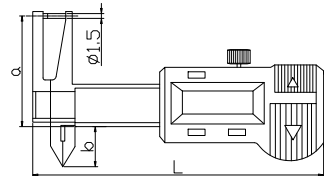
FEATURES

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



305-40-0

Dimension

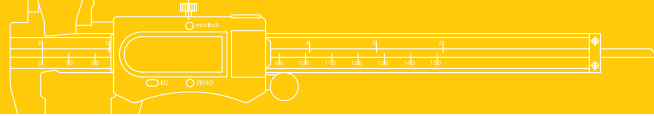


STANDARD ACCESSORIES

- SR44 Battery
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Plastic case

SPECIFICATIONS

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

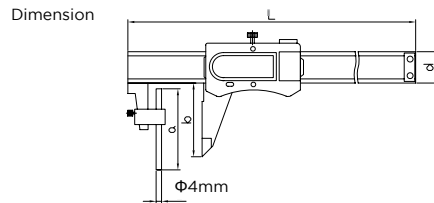


Digital Tube Calipers

316 Series



316-06-0



FEATURES

- Resolution: .0005" / 0.01mm
- The design incorporates a cylindrical stationary jaw on the beam with a normal jaw on the slider and is used for the measurement of tubular wall thicknesses
- Inch/Metric conversion
- Zero-setting at any position

STANDARD ACCESSORIES

- SR44 Battery
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Plastic case

SPECIFICATIONS

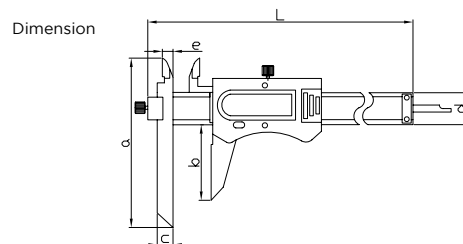
| Inch | | Metric | | L | a | b | Code No. |
|-------|----------|---------|----------|-----|----|----|-----------------|
| Range | Accuracy | Range | Accuracy | mm | mm | mm | |
| 0-6" | ±.001" | 0-150mm | ±0.03mm | 250 | 46 | 30 | 316-06-0 |
| 0-8" | ±.0015" | 0-200mm | ±0.03mm | 300 | 50 | 40 | 316-08-0 |
| 0-12" | ±.0015" | 0-300mm | ±0.04mm | 400 | 66 | 50 | 316-12-0 |

Digital Caliper With Adjustable Measuring Jaw

317 Series



317-06-0



FEATURES

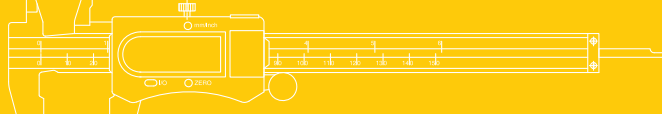
- Resolution: .0005" / 0.01mm
- The stationary jaw on the beam is designed with vertical movement for the purpose of measuring various steps of different heights
- Inch/Metric conversion
- Zero-setting at any position

STANDARD ACCESSORIES

- SR44 Battery
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Plastic case

SPECIFICATIONS

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

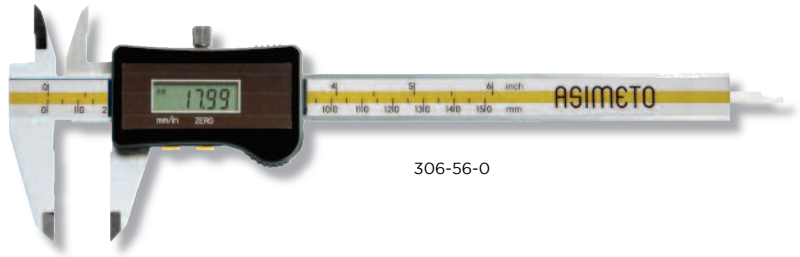


Solar Digital Calipers

306 Series

FEATURES

- Resolution: .0005" / 0.01mm
- Zero-setting at any position
- Inch/Metric conversion
- Auto power-off
- Hard-coated solar panel for increased durability



STANDARD ACCESSORIES

- Warranty card, Instruction manual, Calibration certificate
- Packaging: Plastic case

SPECIFICATIONS

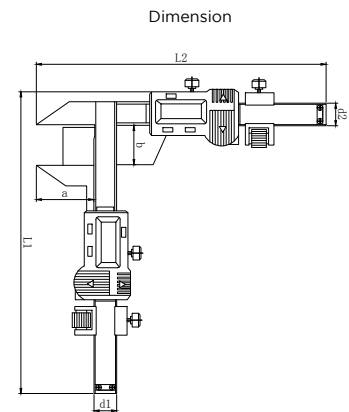
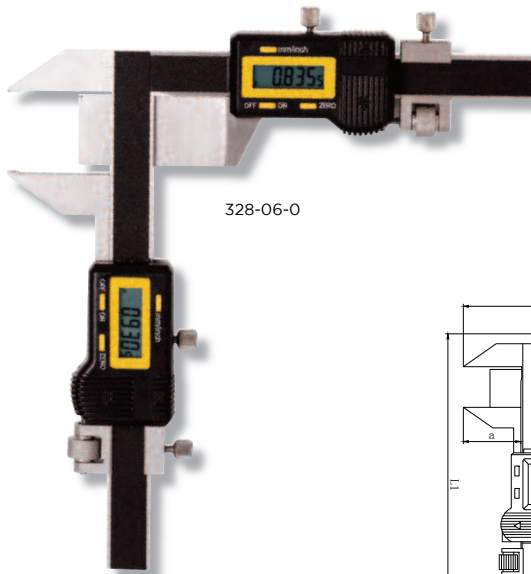
| Inch | | Metric | | Code No. |
|-------|----------|---------|----------|-----------------|
| Range | Accuracy | Range | Accuracy | |
| 0-6" | ±.001" | 0-150mm | ±0.02mm | 306-56-0 |
| 0-8" | ±.0015" | 0-200mm | ±0.03mm | 306-58-0 |
| 0-12" | ±.0015" | 0-300mm | ±0.03mm | 306-62-0 |

Digital Gear Tooth Calipers

328 Series

FEATURES

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

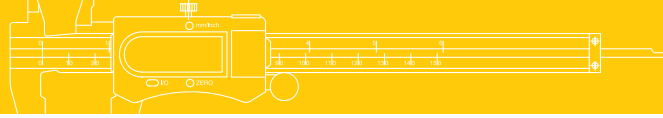


STANDARD ACCESSORIES

- SR44 Battery 2 pcs
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Wooden case

SPECIFICATIONS

| Range | Accuracy | L1 | L2 | a | b | d1 | d2 | Code No. |
|-------|----------|-----|-----|------|----|----|----|-----------------|
| mm | mm | mm | mm | mm | mm | mm | mm | |
| M1-25 | ±0.03 | 166 | 166 | 30.5 | 21 | 13 | 13 | 328-06-0 |
| M5-50 | ±0.03 | 166 | 166 | 30.5 | 21 | 13 | 13 | 328-06-2 |

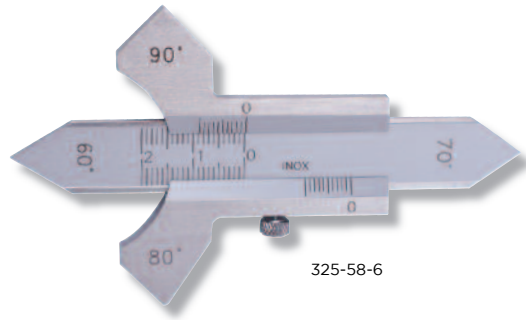


Welding Fillet Gauges

325 Series

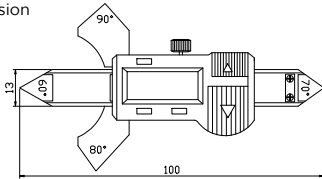


325-05-6



325-58-6

Dimension



FEATURES

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

STANDARD ACCESSORIES

- SR44 Battery (Digital models)
- Warranty card,
Instruction manual
- Packaging: Plastic case

SPECIFICATIONS

| Inch | | Metric | | |
|--------------------------|----------|----------|----------|-----------------|
| Range | Accuracy | Range | Accuracy | Code No. |
| 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 |

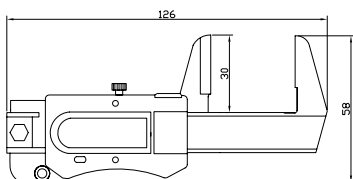
Digital Gages With Single Wide Measuring Face

325 Series



325-36-0

Dimension



FEATURES

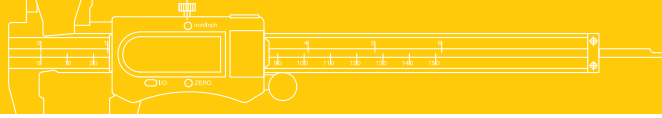
- Resolution: .0005" / 0.01mm
- Zero-setting at any position
- Easy to operate, Usually to measure dimensions of small work pieces
- Inch/Metric conversion

STANDARD ACCESSORIES

- SR44 Battery
- Warranty card, Instruction manual
- Packaging: Plastic case

SPECIFICATIONS

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



Digital Scales

326 Series

FEATURES

- Resolution: .0005" / 0.01mm
- Inch/Metric conversion
- The displayed readings are available in either absolute (measurement to the zero position) or to an incremental (temporary) zero set position at any position along the scale. Either measurement mode can be selected by pressing the ABS/INC button
- Units are supplied with the necessary mounting brackets required for most popular installations
- Models are available with horizontal or vertical numeric displays



326-06-5

STANDARD ACCESSORIES

- SR44 Battery
- Warranty card, Instruction manual
- Packaging: Plastic case

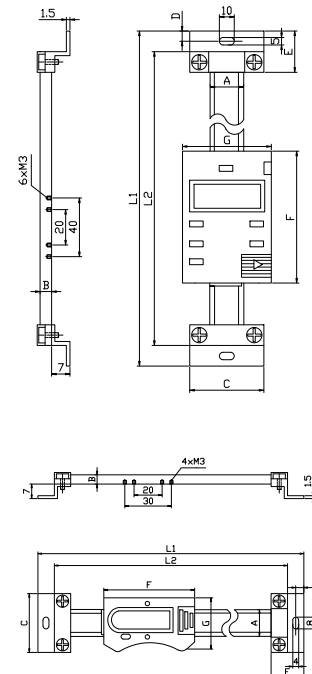
SPECIFICATIONS

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

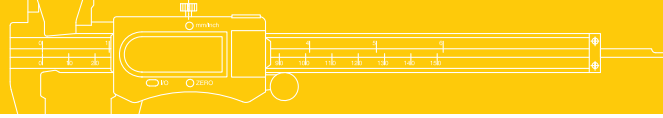


326-18-0

Dimension

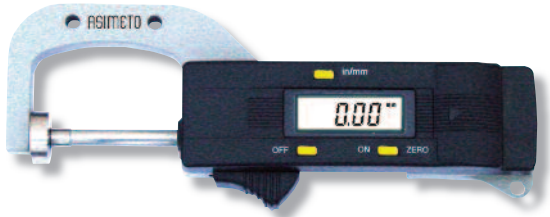


| Range | A | B | C | D | E | F | G | L1 | L2 |
|-------------------|----|------|----|----|----|-------|----|------|------|
| | mm | mm | mm | mm | mm | mm | mm | mm | mm |
| Horizontal | | | | | | | | | |
| 4"/100mm | 16 | 4 | 36 | 6 | 24 | 58 | 34 | 209 | 185 |
| 6"/150mm | 16 | 4 | 36 | 6 | 24 | 58 | 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 |



Digital Snap 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

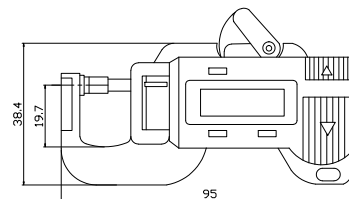
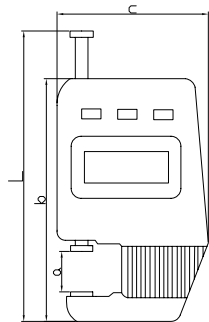
STANDARD ACCESSORIES

- SR44 Battery
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Plastic case

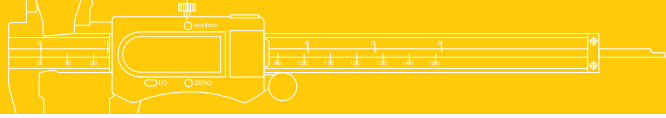
SPECIFICATIONS

| 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 |



Circle Vernier Calipers

322 Series

FEATURES

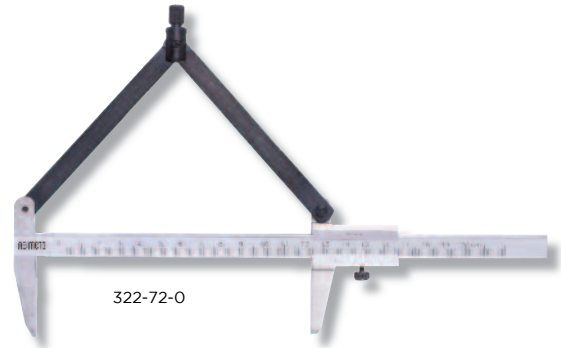
- Graduation: 0.1mm
- With one-piece slider
- Made with stainless steel, hardened measuring face

STANDARD ACCESSORIES

- Warranty card
- Packaging: Wooden case

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 |



T Form Marking Calipers

FEATURES

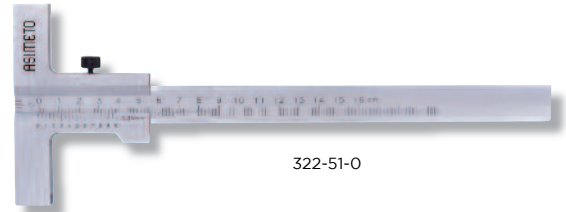
- Graduation: 0.05mm
- Made with stainless steel

STANDARD ACCESSORIES

- Warranty card
- Packaging: Wooden case

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 |



Marking Calipers

FEATURES

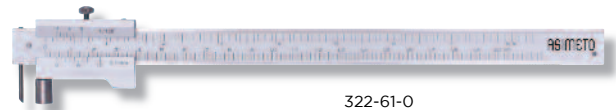
- Graduation: 1/128" / 0.1mm
- Made with stainless steel

STANDARD ACCESSORIES

- Warranty card
- Packaging: Wooden case

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 |



Measuring Gauges

FEATURES

- Graduation: 0.1mm
- Made with stainless steel

STANDARD ACCESSORIES

- Warranty card
- Packaging: Wooden

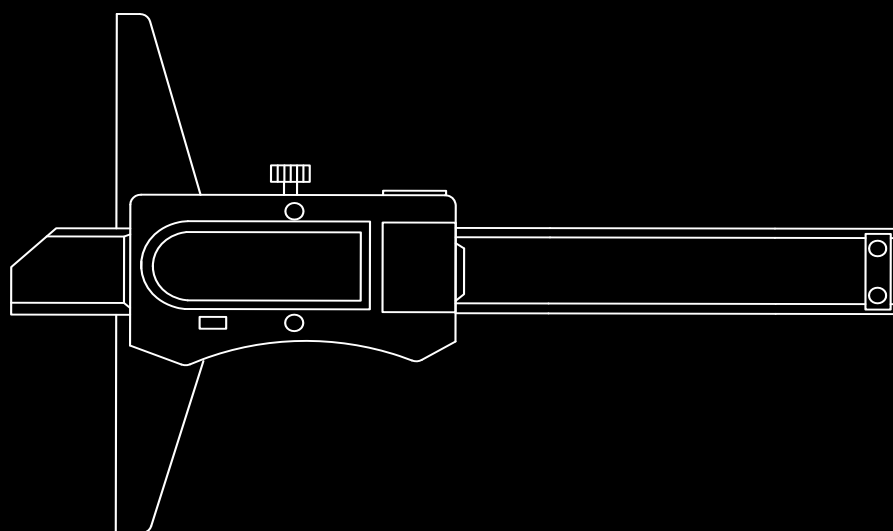
SPECIFICATIONS

| 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 |



Depth & Height Gauges

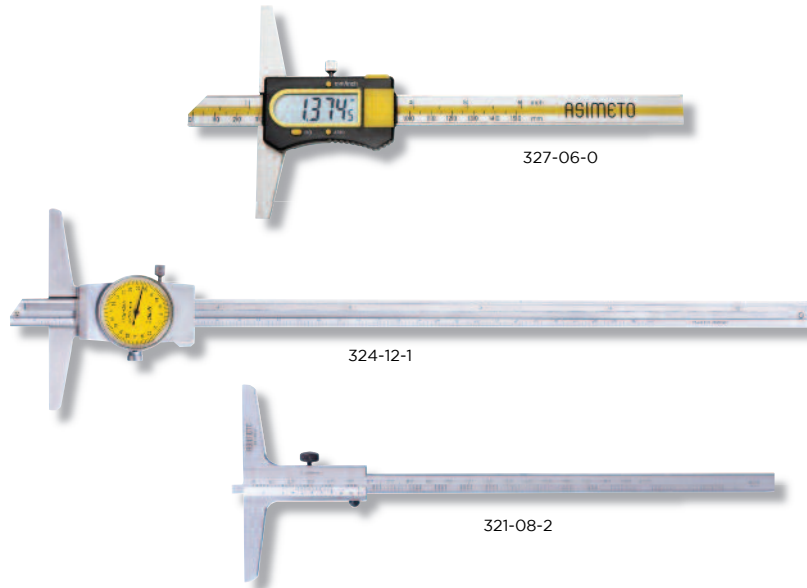
- 57 Depth Calipers
- 58 Depth Calipers With Single Hook
- 59 Depth Calipers With Double Hook
- 60 Depth Base Attachment for Calipers
- 60 Digital Tire Depth Gauges
- 61 Depth Micrometers
- 62 Depth Gauges
- 63 Thickness Gauges
- 64 Single Beam Digital Height Gauges with Hand Wheel
- 64 Digital Height Gauges
- 65 Double Beam Digit Counter Height Gauges with Hand Wheel
- 65 Double Beam Digital Height Gauges with Hand Wheel
- 66 Vernier Height Gauges
- 67 Tool Kits





Depth Calipers

321 / 324 / 327 Series



FEATURES

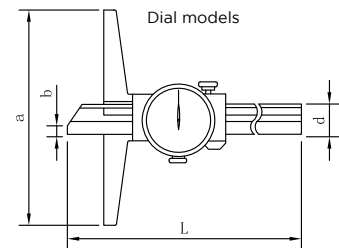
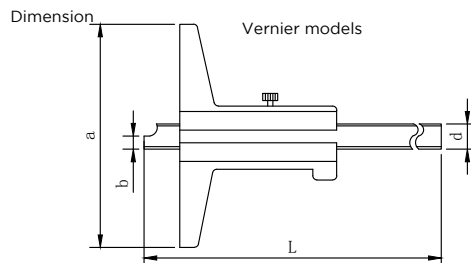
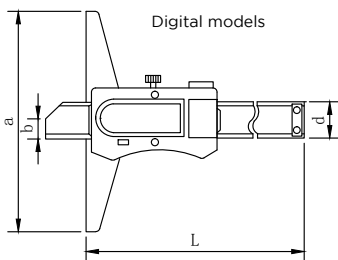
- Resolution:
 - Digital models: .0005" / 0.01mm
 - Vernier models: .001" / 0.02mm or 0.05mm
 - Dial models: .001" / 0.02mm
- Both of the measuring surfaces are precision ground for accuracy
- Models are available in Vernier, Dial or Digital designs

STANDARD ACCESSORIES

- SR44 Battery (Digital models)
- Warranty card, Instruction manual, Calibration certificate
- Packaging:
 - Plastic case (Digital models)
 - Wooden case (Dial models)

SPECIFICATIONS

| Inch | | | Metric | | | Inch | | Metric | |
|-----------------------|------------|----------|---------|------------|----------|-----------------|-----------------|--------|--|
| Range | Graduation | Accuracy | Range | Graduation | Accuracy | Code No. | Code No. | | |
| Digital models | | | | | | | | | |
| 0-6" | .0005" | ±.001" | 0-150mm | 0.01mm | ±0.02mm | - | 327-06-0 | | |
| 0-8" | .0005" | ±.0015" | 0-200mm | 0.01mm | ±0.03mm | - | 327-08-0 | | |
| 0-12" | .0005" | ±.0015" | 0-300mm | 0.01mm | ±0.04mm | - | 327-12-0 | | |
| Vernier models | | | | | | | | | |
| 0-6" | .001" | ±.001" | 0-150mm | 0.02mm | ±0.02mm | 321-06-1 | 321-06-2 | | |
| 0-8" | .001" | ±.0015" | 0-200mm | 0.02mm | ±0.03mm | 321-08-1 | 321-08-2 | | |
| 0-12" | .001" | ±.0015" | 0-300mm | 0.02mm | ±0.04mm | 321-12-1 | 321-12-2 | | |
| - | - | - | 0-150mm | 0.05mm | ±0.05mm | - | 321-06-0 | | |
| - | - | - | 0-200mm | 0.05mm | ±0.05mm | - | 321-08-0 | | |
| - | - | - | 0-300mm | 0.05mm | ±0.05mm | - | 321-12-0 | | |
| Dial models | | | | | | | | | |
| 0-6" | .001" | ±.001" | 0-150mm | 0.02mm | ±0.02mm | 324-06-1 | 324-06-0 | | |
| 0-8" | .001" | ±.0015" | 0-200mm | 0.02mm | ±0.03mm | 324-08-1 | 324-08-0 | | |
| 0-12" | .001" | ±.0015" | 0-300mm | 0.02mm | ±0.04mm | 324-12-1 | 324-12-0 | | |



| Range | Digital models | | | | Vernier models | | | | Dial models | | | |
|---------------|----------------|-------|-------|--------|----------------|-------|-----|------|-------------|-------|-------|--------|
| Inch/Metric | L | a | b | d | L | a | b | d | L | a | b | d |
| 0-6"/0-150mm | 230mm | 100mm | 8.5mm | 14.5mm | 250mm | 100mm | 5mm | 10mm | 236mm | 100mm | 4.6mm | 13.5mm |
| 0-8"/0-200mm | 280mm | 100mm | 8.5mm | 14.5mm | 300mm | 100mm | 5mm | 10mm | 286mm | 100mm | 4.6mm | 13.5mm |
| 0-12"/0-300mm | 380mm | 100mm | 8.5mm | 14.5mm | 400mm | 100mm | 5mm | 10mm | 386mm | 100mm | 4.6mm | 13.5mm |



Depth Calipers With Single Hook

322 Series

FEATURES

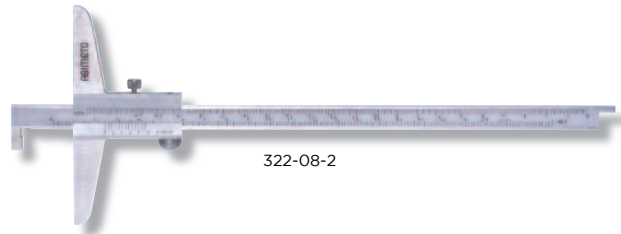
- Resolution:
 - Digital models: .0005" / 0.01mm
 - Vernier models: .001" / 0.05mm
- The stationary measuring surface on the beam protrudes at right angles (measuring hook) to allow for the measurement of depths, internal groove positions, and other intricate characteristics
- Measurements can be taken on either side of the measuring hook
- Vernier models are designed allowing the main beam to be reversible with corresponding scales on the slider
- All measuring surfaces are hardened
- Both Vernier and Digital models are available

STANDARD ACCESSORIES

- SR44 battery (Digital models)
- Warranty card, Instruction manual, Calibration certificate
- Packaging:
 - Plastic case (Digital models)
 - Litted leather holder (Vernier models)



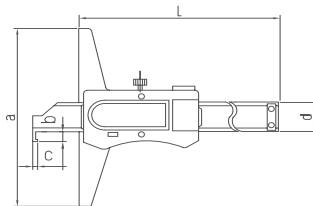
322-06-5



322-08-2

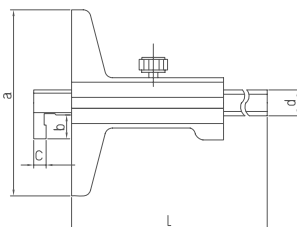
SPECIFICATIONS

| Inch | | | Metric | | | Inch | | Metric | |
|-----------------------|------------|----------|---------|------------|----------|-----------------|----------|--------|-----------------|
| Range | Resolution | Accuracy | Range | Resolution | Accuracy | Code No. | Code No. | | |
| Digital models | | | | | | | | | |
| 0-6" | .0005" | ±.001" | 0-150mm | 0.01mm | ±0.02mm | - | | | 322-06-5 |
| 0-8" | .0005" | ±.0015" | 0-200mm | 0.01mm | ±0.03mm | - | | | 322-08-5 |
| 0-12" | .0005" | ±.0015" | 0-300mm | 0.01mm | ±0.04mm | - | | | 322-12-5 |
| Vernier models | | | | | | | | | |
| 0-6" | .001" | ±.001" | 0-150mm | 0.05mm | ±0.05mm | 322-06-3 | | | 322-06-2 |
| 0-8" | .001" | ±.0015" | 0-200mm | 0.05mm | ±0.05mm | 322-08-3 | | | 322-08-2 |
| 0-12" | .001" | ±.0015" | 0-300mm | 0.05mm | ±0.08mm | 322-12-3 | | | 322-12-2 |



Dimension

Digital models



Vernier models

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

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

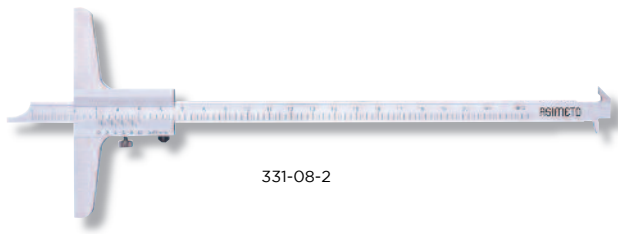


Depth Calipers With Double Hook

323 / 331 Series



323-06-5



331-08-2

FEATURES

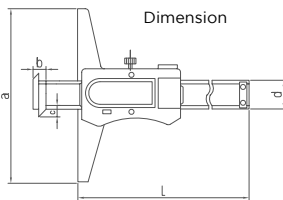
- Resolution:
 - Digital models: .0005" / 0.01mm
 - Vernier models: .001" / 0.05mm
- The hooked measuring surfaces are used for measurement of internal or external grooves and other intricate work piece characteristics
- The main beam on the Vernier models is double sided with dual scales, and is able to be reversed in the slider for measurement flexibility
- The base and measuring faces are hardened and precision ground
- Both Digital and Vernier models are available

STANDARD ACCESSORIES

- SR44 Battery (Digital models)
- Warranty card, Instruction manual, Calibration certificate
- Packaging:
 - Plastic case (Digital models)
 - Litted leather holder (Vernier models)

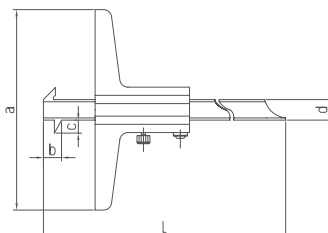
SPECIFICATIONS

| Inch | | | Metric | | | Inch | | Metric | |
|-----------------------|------------|----------|---------|------------|----------|-----------------|----------|--------|-----------------|
| Range | Resolution | Accuracy | Range | Resolution | Accuracy | Code No. | Code No. | | |
| Digital models | | | | | | | | | |
| 0-6" | .0005" | ±.001" | 0-150mm | 0.01mm | ±0.02mm | - | | | 323-06-5 |
| 0-8" | .0005" | ±.0015" | 0-200mm | 0.01mm | ±0.03mm | - | | | 323-08-5 |
| 0-12" | .0005" | ±.0015" | 0-300mm | 0.01mm | ±0.04mm | - | | | 323-12-5 |
| Vernier models | | | | | | | | | |
| 0-6" | .001" | ±.001" | 0-150mm | 0.05mm | ±0.05mm | 331-06-3 | | | 331-06-2 |
| 0-8" | .001" | ±.0015" | 0-200mm | 0.05mm | ±0.05mm | 331-08-3 | | | 331-08-2 |
| 0-12" | .001" | ±.0015" | 0-300mm | 0.05mm | ±0.08mm | 331-12-3 | | | 331-12-2 |



Digital models

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



Vernier models

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



Depth Base Attachments for Calipers

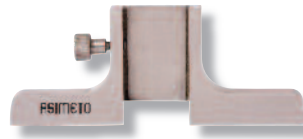
327 Series

FEATURES

- For up to 200mm calipers with depth bar
- Made of stainless steel
- Packaging: Cardboard box

SPECIFICATIONS

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



327-66-9



Digital Tire Depth Gauges

321 Series

FEATURES

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

STANDARD ACCESSORIES

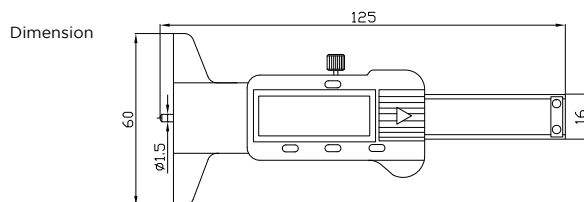
- SR44 Battery
- Warranty card, Calibration certificate
- Packaging: Plastic case

SPECIFICATIONS

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



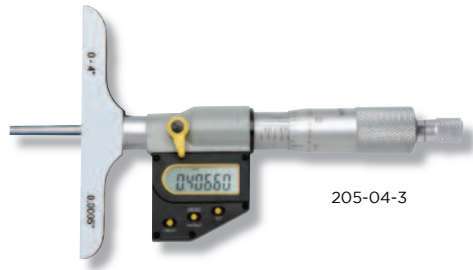
321-01-0



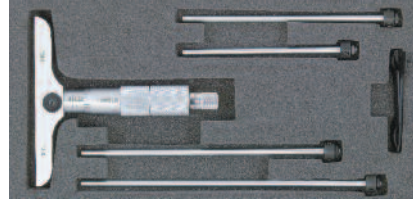


Depth Micrometers

201 / 205 Series



205-04-3



201-04-3



FEATURES

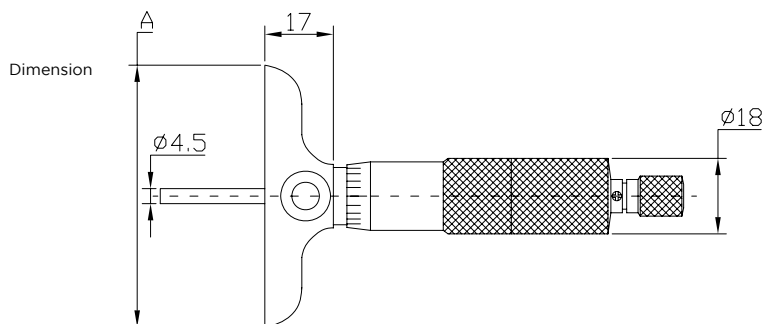
- Resolution:
Digital models: .00005" / 0.001mm
Mechanical models: .001" / 0.01mm
- Ratchet stop
- Protection level IP65
- The integrity of the measurements are maintained throughout the total range of the measuring rods. However the measuring rods must be kept as a set and may not be interchangeable 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

- SR44 Battery (Digital models), Rods, Y-wrench, S-wrench, 6-wrench (Mechanical Models), Torque Wrench, (Mechanical Models), Warranty card, Instruction manual, Calibration certificate
- Packaging:
Plastic case
Wooden case for 0-300mm range

SPECIFICATIONS

| Inch | | Metric | | | | Inch Code No. | | Metric Code No. | |
|--------------------------|----------|---------|----------|-------------|--------|---------------|---------------|-----------------|---------------|
| Range | Accuracy | Range | Accuracy | Base length | Rods | Flat end | Spherical end | Flat end | Spherical end |
| Digital models | | | | | | | | | |
| 0-2" | ±.0002" | 0-50mm | ±.004mm | 63mm | 2 pcs | 205-02-1 | 205-52-1 | 205-02-0 | 205-52-0 |
| 0-4" | ±.0002" | 0-100mm | ±.005mm | 63mm | 4 pcs | 205-04-1 | 205-54-1 | 205-04-0 | 205-54-0 |
| 0-6" | ±.0002" | 0-150mm | ±.005mm | 63mm | 6 pcs | 205-06-1 | 205-56-1 | 205-06-0 | 205-56-0 |
| 0-12" | ±.00028" | 0-300mm | ±.007mm | 63mm | 12 pcs | 205-12-1 | 205-62-1 | 205-12-0 | 205-62-0 |
| 0-4" | ±.0002" | 0-100mm | ±.005mm | 101.5mm | 4 pcs | 205-04-3 | 205-54-3 | 205-04-2 | 205-54-2 |
| 0-6" | ±.0002" | 0-150mm | ±.005mm | 101.5mm | 6 pcs | 205-06-3 | 205-56-3 | 205-06-2 | 205-56-2 |
| 0-12" | ±.00028" | 0-300mm | ±.007mm | 101.5mm | 12 pcs | 205-12-3 | 205-62-3 | 205-12-2 | 205-62-2 |
| Mechanical models | | | | | | | | | |
| 0-2" | ±.0002" | 0-50mm | ±.004mm | 63mm | 2 pcs | 201-02-1 | 201-52-1 | 201-02-0 | 201-52-0 |
| 0-4" | ±.0002" | 0-100mm | ±.005mm | 63mm | 4 pcs | 201-04-1 | 201-54-1 | 201-04-0 | 201-54-0 |
| 0-6" | ±.0002" | 0-150mm | ±.005mm | 63mm | 6 pcs | 201-06-1 | 201-56-1 | 201-06-0 | 201-56-0 |
| 0-12" | ±.00028" | 0-300mm | ±.007mm | 63mm | 12 pcs | 201-12-1 | 201-62-1 | 201-12-0 | 201-62-0 |
| 0-4" | ±.0002" | 0-100mm | ±.005mm | 101.5mm | 4 pcs | 201-04-3 | 201-54-3 | 201-04-2 | 201-54-2 |
| 0-6" | ±.0002" | 0-150mm | ±.005mm | 101.5mm | 6 pcs | 201-06-3 | 201-56-3 | 201-06-2 | 201-56-2 |
| 0-12" | ±.00028" | 0-300mm | ±.007mm | 101.5mm | 12 pcs | 201-12-3 | 201-62-3 | 201-12-2 | 201-62-2 |





Depth Gauges

473 / 475 Series

FEATURES

- Resolution:
Digital models: .0005" or .0001" / 0.01mm or 0.001mm
Dial models: .001" / 0.01mm
- The total measuring range is accomplished with threaded depth rods in 1" or 20mm intervals
- The base surface is precisely finished and hardened for accurate repeatable measurements
- Inch/Metric conversion for digital models

STANDARD ACCESSORIES

- SR44 Battery (Digital models), Interchangeable rods
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Wooden case



475-04-4



473-04-0

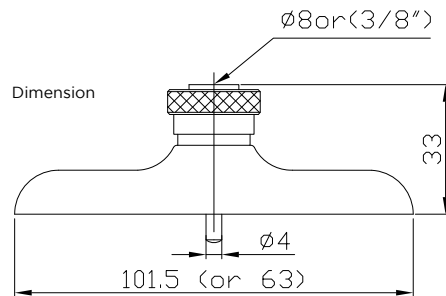
SPECIFICATIONS

Digital models

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

Dial models

| Range | Resolution | Accuracy | Stroke | Rods | Base Length | Code No. |
|---------------|------------|----------|--------|--------|--------------|-----------------|
| Inch | | | | | | |
| 0-4" | .001" | .002" | 1" | 4 pcs | 2.5" x .63" | 473-04-1 |
| 0-4" | .001" | .002" | 1" | 4 pcs | 4" x .63" | 473-04-3 |
| Metric | | | | | | |
| 0-100mm | 0.01mm | 0.02mm | 10mm | 10 pcs | 63.5 x 17mm | 473-04-0 |
| 0-100mm | 0.01mm | 0.02mm | 10mm | 10 pcs | 101.6 x 17mm | 473-04-2 |





Thickness Gauges

495 / 491 Series



491-01-0



495-02-0

FEATURES

- Resolution:
 - Digital models: .0005" or .0001" / 0.01mm or 0.001mm
 - Dial models: .001" / 0.01mm
- Designed for the measurement of paper, film, wire, sheet metal, jewelry, leather and similar materials
- Measurement anvils are flat

STANDARD ACCESSORIES

- SR44 Battery (Digital models)
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Plastic case

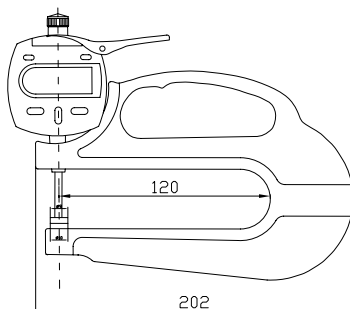
SPECIFICATIONS

Digital models

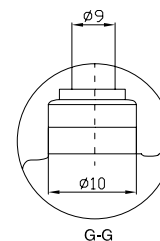
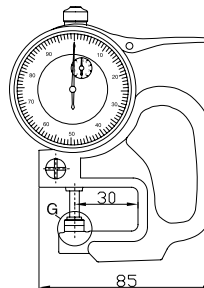
| Inch | | | Metric | | | | Deep Throat | Code No. |
|--------|------------|----------|--------|------------|----------|-------|-----------------|----------|
| Range | Resolution | Accuracy | Range | Resolution | Accuracy | | | |
| 0-0.4" | .0005" | ±.001" | 0-10mm | 0.01mm | ±0.015mm | 30mm | 495-01-0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

Dial models

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



Dimension





Single Beam Digital Height Gauges with Hand Wheel

626 Series

FEATURES

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

STANDARD ACCESSORIES

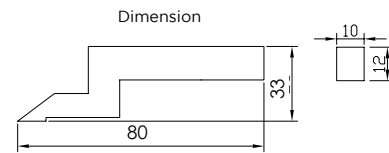
- Carbide tipped scriber with clamp, SR44 Battery
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Foam box plus carton box

SPECIFICATIONS

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



626-12-0



Digital Height Gauges

625 Series

FEATURES

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

STANDARD ACCESSORIES

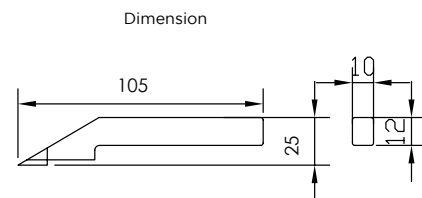
- Carbide tipped scriber with clamp, SR44 Battery
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Foam box plus carton box

SPECIFICATIONS

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



625-24-0

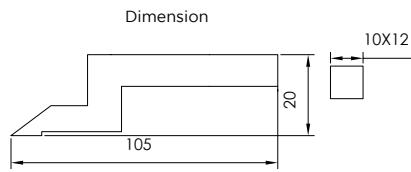




Double Beam Digit Counter Height Gauges with Hand Wheel 623 Series



623-18-1



FEATURES

- Graduation: .001" / 0.01mm.
- Position is displayed by a combination of the digit counter and the dial
- Hand wheel design for both course 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

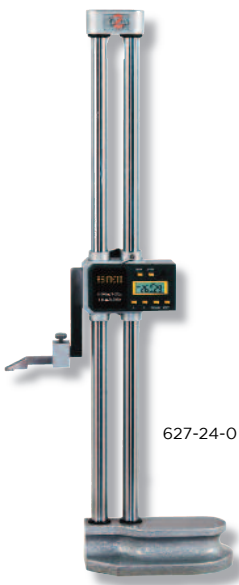
STANDARD ACCESSORIES

- Carbide tipped scriber with clamp
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Foam box plus carton box

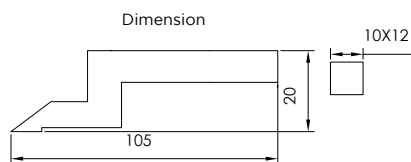
SPECIFICATIONS

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

Double Beam Digital Height Gauges with Hand Wheel 627 Series



627-24-0



FEATURES

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

STANDARD ACCESSORIES

- Carbide tipped scriber with clamp, SR44 Battery
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Foam box plus carton box

SPECIFICATIONS

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



Vernier Height Gauges

621 Series

FEATURES

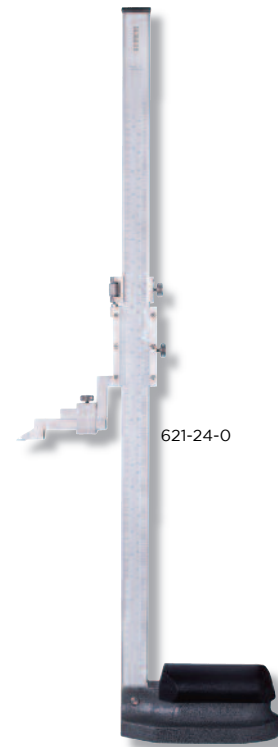
- Graduation:
Inch: .001" or 1/128"
Metric: 0.02mm or 0.05mm
- The fine-adjustment allows the slider to be precisely positioned
- Mat chrome finish
- Stainless steel design
- The base is designed with a thermal heat isolation hand grip

STANDARD ACCESSORIES

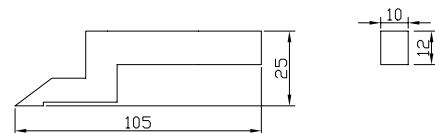
- Carbide tipped scriber with clamp
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Foam box plus carton box

SPECIFICATIONS

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



Dimension



Optional Accessories

| Spare part | Description | Code No. |
|--------------|------------------------|-----------------|
| Holding Bars | 10x12mm, Length: 50mm | 500-21-4 |
| Holding Bars | 10x12mm, Length: 100mm | 500-21-6 |





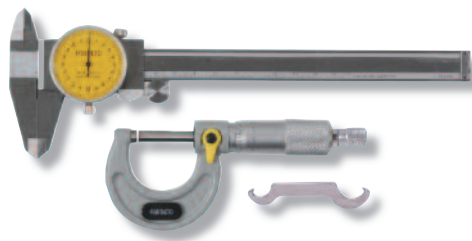
Tool Kits

960 Series

- Packaging: Plastic case

Kit #1 Analog

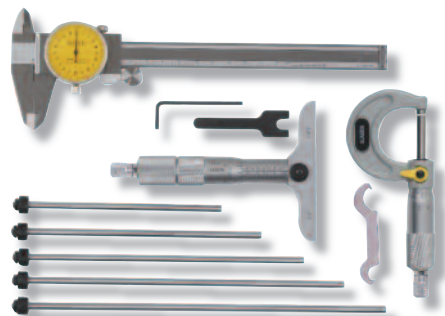
| | Inch | Metric |
|---|----------------------------|----------------------------|
| Code No. | 960-01-1 | 960-01-0 |
| Individual Description | Individual Code No. | Individual Code No. |
| 0-6" x .001", 0-150mm x 0.02mm Dial Caliper | 303-06-1 | 303-06-2 |
| 0-1" x .0001", 0-25mm x 0.01mm Outside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



960-01-0

Kit #2 Analog Plus

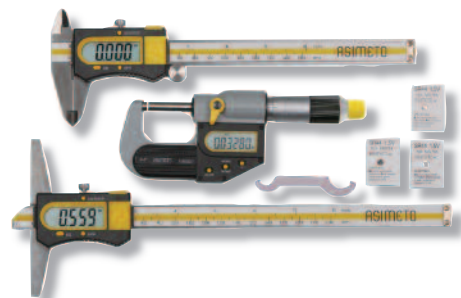
| | Inch | Metric |
|---|----------------------------|----------------------------|
| Code No. | 960-02-1 | 960-02-0 |
| Individual Description | Individual Code No. | Individual Code No. |
| 0-6" x .001", 0-150mm x 0.02mm Dial Caliper | 303-06-1 | 303-06-2 |
| 0-1" x .0001", 0-25mm x 0.01mm Outside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



960-02-0

Kit #3 Digital Plus

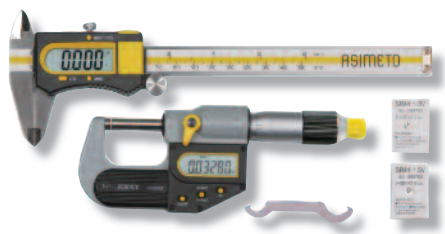
| | Inch | Metric |
|---|----------------------------|----------------------------|
| Code No. | 960-03-1 | 960-03-0 |
| Individual Description | Individual Code No. | Individual Code No. |
| 0-6" x .0005", 0-150mm x 0.01mm Digital Caliper | 307-06-1 | 307-06-2 |
| 0-1" x .00005", 0-25mm x 0.001mm Digital Outside Mic. | 106-01-5 | 106-01-4 |
| 0-8" x .0005", 0-200mm x 0.01mm Digital Depth Caliper | 327-08-0 | 327-08-0 |



960-03-1

Kit #5 Digital

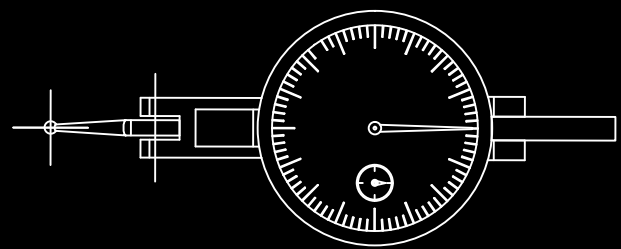
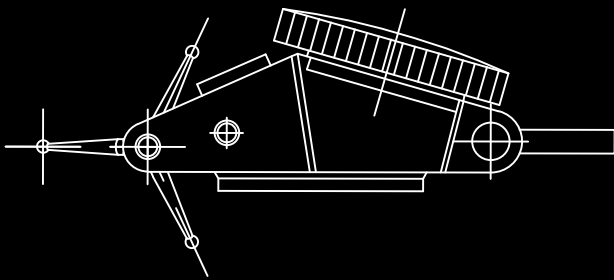
| | Inch | Metric |
|---|----------------------------|----------------------------|
| Code No. | 960-05-1 | 960-05-0 |
| Individual Description | Individual Code No. | Individual Code No. |
| 0-6" x .0005", 0-150mm x 0.01mm Digital Caliper | 307-06-1 | 307-06-0 |
| 0-1" x .00005", 0-25mm x 0.001mm Digital Outside Mic. | 106-01-5 | 106-01-4 |



960-05-1

Indicators & Dial Gauges

- 70 Digital Indicators
- 71 Digital Indicators With Analog Display
- 72 AGD2 Dial Indicators
- 75 AGD1 Dial Indicators
- 76 Dial Indicators - One revolution for Error-free Reading
- 76 Back Plunger Type Dial Indicators
- 77 Dial Comparators
- 77 Centering Indicators
- 78 Test Indicators
- 80 Extended range Dial Test Indicator
- 81 Extended range Dial Test Indicator Sets
- 82 Optional Accessories for Dial Test Indicators
- 83 Internal Caliper Gauges
- 84 External Caliper Gauges
- 85 Magnetic Bases
- 87 Tool kits





ASIMETO Digital Indicator

Features:





Digital Indicators

405 Series



FEATURES

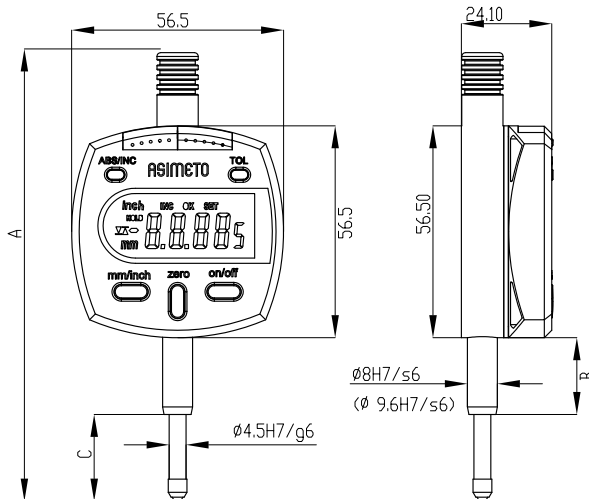
- Resolution:
Inch: .0005"; .00005"
Metric: 0.01mm; 0.001mm
- Tolerance measurement feature
- Inch/Metric conversion
- Power: CR2032 3V
- Flat back (attached) and lug back supplied
- Ø8mm stem diameter for metric models
Ø3/8" stem diameter for inch models

STANDARD ACCESSORIES

- Lug Back, CR2032 Battery
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Plastic case

SPECIFICATIONS

| Inch | | | Metric | | | Inch | | Metric | |
|-------|------------|----------|----------|------------|----------|----------|----------|--------|--|
| Range | Resolution | Accuracy | Range | Resolution | Accuracy | Code No. | Code No. | | |
| 0-.5" | .0005" | ±.0008" | 0-12.5mm | 0.01mm | ±0.02mm | 405-95-1 | 405-95-0 | | |
| 0-1" | .0005" | ±.0012" | 0-25mm | 0.01mm | ±0.03mm | 405-01-1 | 405-01-0 | | |
| 0-2" | .0005" | ±.0012" | 0-50mm | 0.01mm | ±0.03mm | 405-02-1 | 405-02-0 | | |
| 0-.5" | .00005" | ±.0003" | 0-12.5mm | 0.001mm | ±0.007mm | 405-95-5 | 405-95-4 | | |
| 0-1" | .00005" | ±.0004" | 0-25mm | 0.001mm | ±0.009mm | 405-01-5 | 405-01-4 | | |
| 0-2" | .00005" | ±.0004" | 0-50mm | 0.001mm | ±0.009mm | 405-02-5 | 405-02-4 | | |



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



Digital Indicators With Analog Display

406 Series

FEATURES

- Resolution: .00005" / 0.002mm
- Absolute measurement
- 360 deg. screen rotation
- Inch/Metric conversion
- Present tolerance and value
- 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, CR2032 3V Battery
- Warranty card, Instruction manual,
Calibration certificate
- Packaging: Plastic case

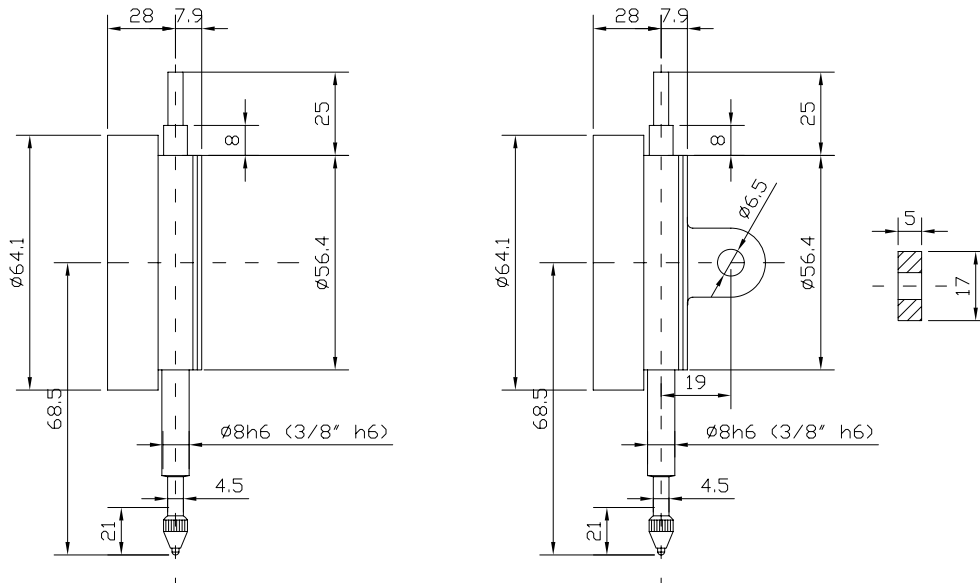


CR2032 Battery

406-05-1

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 | | |





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

STANDARD ACCESSORIES

- Flat back, Warranty card, Instruction manual, Calibration certificate
- Packaging: Blister plus cardboard box

SPECIFICATIONS

| Range | Graduation | Range / Rev. | Dial reading | Accuracy | Code No. |
|--|------------|--------------|--------------|----------|-----------------|
| Stem diameter Ø3/8" | | | | | |
| .25" | .001" | .1" | 0-100 | ±.002" | 402-06-1 |
| .25" | .001" | .1" | 0-50-0 | ±.002" | 402-06-3 |
| .25" | .0005" | .05" | 0-25-0 | ±.0015" | 402-06-5 |
| .50" | .001" | .1" | 0-100 | ±.002" | 402-12-1 |
| .50" | .001" | .1" | 0-50-0 | ±.002" | 402-12-3 |
| .50" | .0005" | .05" | 0-50 | ±.002" | 402-12-5 |
| 1" | .001" | .1" | 0-100 | ±.002" | 402-26-1 |
| 1" | .001" | .1" | 0-50-0 | ±.002" | 402-26-3 |
| 1" | .0005" | .05" | 0-50 | ±.002" | 402-26-5 |
| 2" | .001" | .1" | 0-100 | ±.004" | 402-51-1 |
| .05" | .0001" | .01" | 0-100 | ±.0007" | 402-01-1 |
| .05" | .0001" | .01" | 0-50-0 | ±.0007" | 402-01-3 |
| 3mm | 0.01mm | 1mm | 0-100 | ±0.03mm | 402-03-1 |
| 3mm | 0.01mm | 1mm | 0-50-0 | ±0.03mm | 402-03-3 |
| 5mm | 0.01mm | 1mm | 0-100 | ±0.03mm | 402-05-1 |
| 5mm | 0.01mm | 1mm | 0-50-0 | ±0.03mm | 402-05-3 |
| 10mm | 0.01mm | 1mm | 0-100 | ±0.03mm | 402-10-1 |
| 10mm | 0.01mm | 1mm | 0-50-0 | ±0.03mm | 402-10-3 |
| 20mm | 0.01mm | 1mm | 0-50-0 | ±0.04mm | 402-20-1 |
| 25mm | 0.01mm | 1mm | 0-50-0 | ±0.04mm | 402-25-3 |
| Stem diameter Ø8mm | | | | | |
| 1mm | 0.001mm | 0.2mm | 0-200 | 0.005mm | 402-01-0 |
| 1mm | 0.001mm | 0.2mm | 0-100-0 | 0.005mm | 402-01-2 |
| 3mm | 0.01mm | 1mm | 0-100 | 0.014mm | 402-03-0 |
| 3mm | 0.01mm | 1mm | 0-50-0 | 0.014mm | 402-03-2 |
| 5mm | 0.01mm | 1mm | 0-100 | 0.016mm | 402-05-0 |
| 5mm | 0.01mm | 1mm | 0-50-0 | 0.016mm | 402-05-2 |
| 10mm | 0.01mm | 1mm | 0-100 | 0.02mm | 402-10-0 |
| 10mm | 0.01mm | 1mm | 0-50-0 | 0.02mm | 402-10-2 |
| 20mm | 0.01mm | 1mm | 0-50-0 | 0.025mm | 402-20-0 |
| 20mm | 0.01mm | 1mm | 0-100 | 0.025mm | 402-20-2 |
| 25mm | 0.01mm | 1mm | 0-50-0 | 0.035mm | 402-25-0 |
| 25mm | 0.01mm | 1mm | 0-100 | 0.035mm | 402-25-2 |
| 30mm | 0.01mm | 1mm | 0-100 | 0.035mm | 402-30-0 |
| 30mm | 0.01mm | 1mm | 0-50-0 | 0.035mm | 402-30-2 |
| Shock Proof. Stem diameter Ø8mm | | | | | |
| 5mm | 0.01mm | 1mm | 0-50-0 | 0.016mm | 402-05-4 |
| 10mm | 0.01mm | 1mm | 0-100 | 0.02mm | 402-10-8 |
| 20mm | 0.01mm | 1mm | 0-100 | 0.025mm | 402-20-8 |



402-10-0

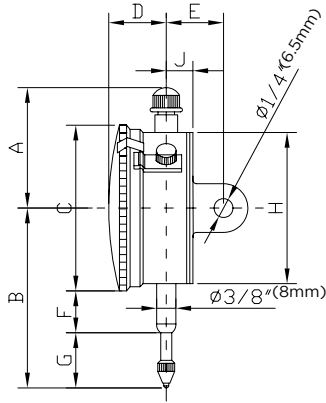


402-26-5

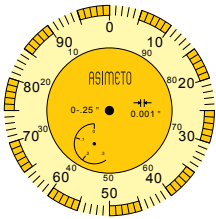


AGD2 Dial Indicators

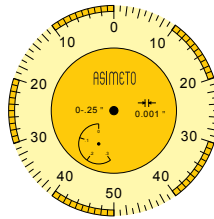
402 Series



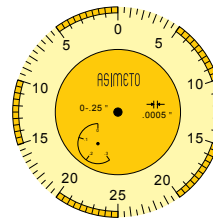
| Range | A | B | C | D | E | F | G | H | J |
|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Inch | inch | inch | inch | inch | inch | inch | inch | inch | inch |
| 0-.05" | 1.76 | 2.39 | 2.28 | 0.64 | 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 |



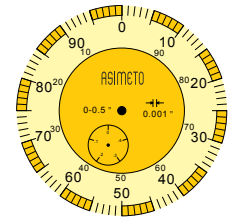
402-06-1



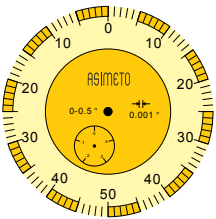
402-06-3



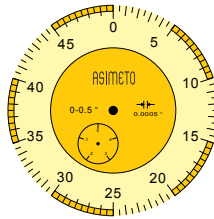
402-06-5



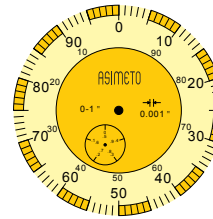
402-12-1



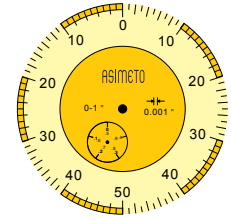
402-12-3



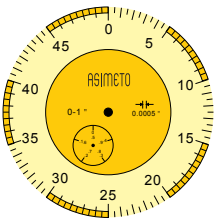
402-12-5



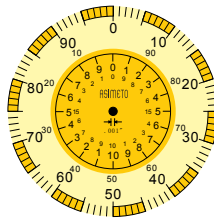
402-26-1



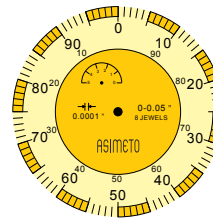
402-26-3



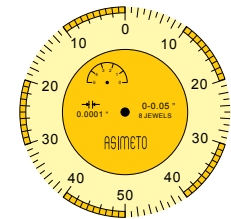
402-26-5



402-51-1



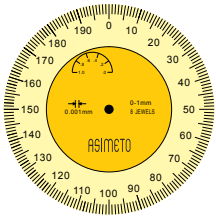
402-01-1



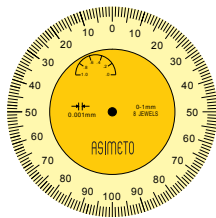
402-01-3



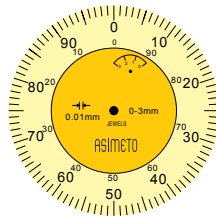
AGD2 Dial Indicators



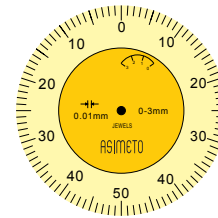
402-01-0



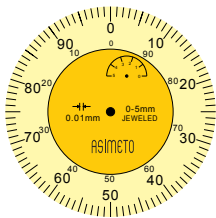
402-01-2



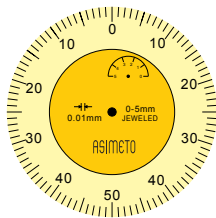
402-03-0
402-03-1



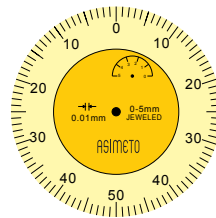
402-03-2
402-03-3



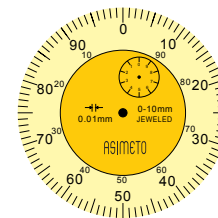
402-05-0
402-05-1



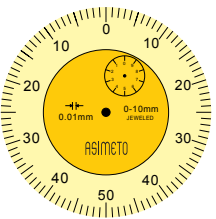
402-05-2
402-05-3



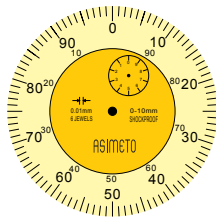
402-05-4



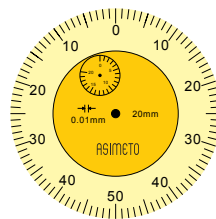
402-10-0
402-10-1



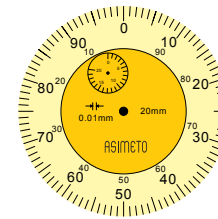
402-10-2
402-10-3



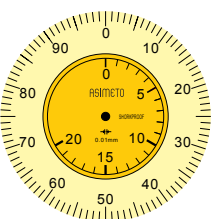
402-10-8



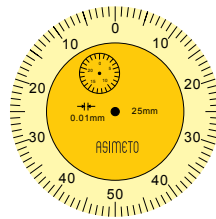
402-20-0
402-20-1



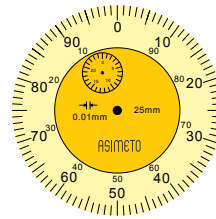
402-20-2



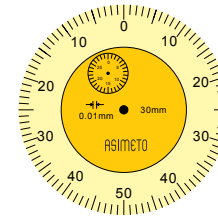
402-20-8



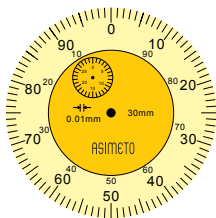
402-25-0
402-25-3



402-25-2



402-30-2



402-30-0



AGD1 Dial Indicators

401 Series

FEATURES

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

STANDARD ACCESSORIES

- Flat Back
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Blister plus cardboard box



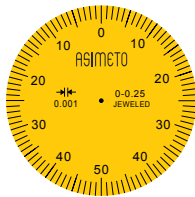
401-06-1



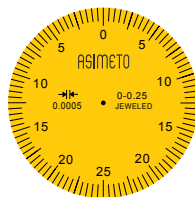
401-05-2

SPECIFICATIONS

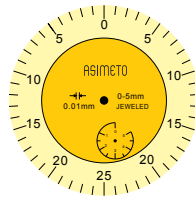
| Range | Graduation | Range / Rev. | Dial reading | Accuracy | Code No. |
|----------------------------|------------|--------------|--------------|----------|-----------------|
| Stem diameter Ø3/8" | | | | | |
| .25" | .001" | .1" | 0-100 | ±.001" | 401-06-1 |
| .25" | .001" | .1" | 0-50-0 | ±.001"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



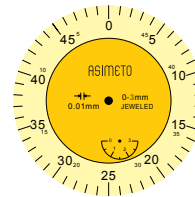
401-06-3



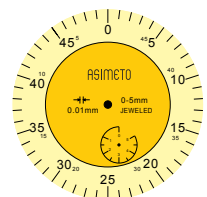
401-06-5



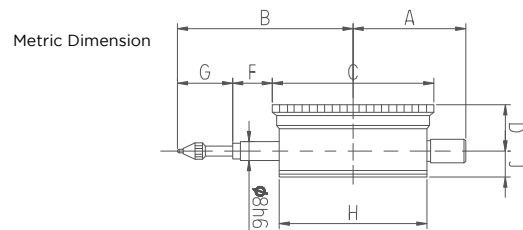
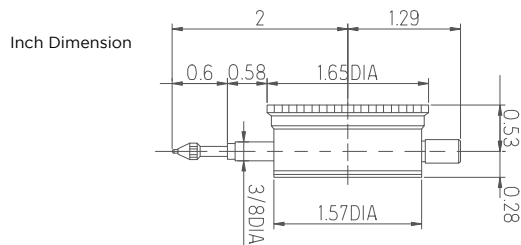
401-05-2
401-05-3



401-03-0
401-03-1



401-05-0
401-05-1



| 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 |



Dial Indicators - One revolution for Error-free Reading

422 Series

FEATURES

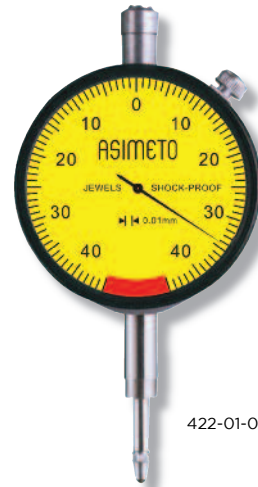
- Graduation: 0.01mm
- AGD2 series, dial face dia. $\varnothing 2.20''/\varnothing 58\text{mm}$
- Easy to read dial face
- A pair of limit hands are provided for quick and easy tolerance judgment
- Provided with an improved resistance to shop floor contaminants such as water and dust
- With Flat back
- With $\varnothing 8\text{mm}$ stem diameter

STANDARD ACCESSORIES

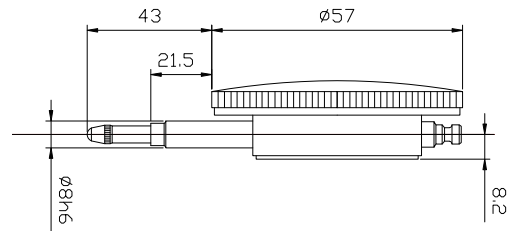
- Warranty card, Calibration certificate
- Packaging: Blister plus cardboard box

SPECIFICATIONS

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



422-01-0



Back Plunger Type Dial Indicators

422 Series

FEATURES

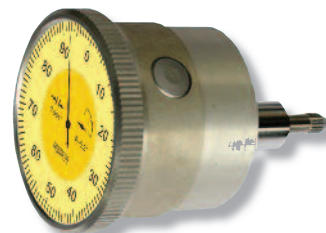
- Graduation: $.001'' / 0.01\text{mm}$
- Easy to read dial face with dial revolution counter
- Back plunger type dial indicators are designed to be used in fixtures and other applications that the dial reading is best viewed from an axis parallel to that of the indicator measuring axis

STANDARD ACCESSORIES

- Warranty card
- Packaging: Plastic case

SPECIFICATIONS

| Range | Graduation | Accuracy | Range / Rev. | Dial Dia. | Stem diameter | Dial reading | Code No. |
|---------------|------------|----------------------|--------------|-----------|--------------------------|--------------|-----------------|
| Inch | | | | | | | |
| .1" | .001" | $\pm 0.001''$ | .1" | 1.6" | $\varnothing 3/8''$ | 0-100 | 422-11-1 |
| .2" | .001" | $\pm 0.001''$ | .1" | 1.6" | $\varnothing 3/8''$ | 0-100 | 422-12-1 |
| Metric | | | | | | | |
| 1mm | 0.01mm | $\pm 0.015\text{mm}$ | 1mm | 58mm | $\varnothing 8\text{mm}$ | 0-100 | 422-11-2 |
| 3mm | 0.01mm | $\pm 0.015\text{mm}$ | 1mm | 58mm | $\varnothing 8\text{mm}$ | 0-100 | 422-12-2 |
| 5mm | 0.01mm | $\pm 0.02\text{mm}$ | 1mm | 58mm | $\varnothing 8\text{mm}$ | 0-100 | 422-13-2 |



422-11-1



Dial Comparator

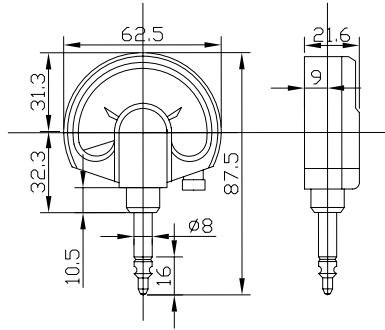
422 Series

FEATURES

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

STANDARD ACCESSORIES

- Spindle lifting cable
- Warranty card, Instruction manual
- Packaging: Plastic case



422-21-0

SPECIFICATIONS

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

Centering Indicator

469 Series

FEATURES

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

STANDARD ACCESSORIES

- 6 pcs Feeler Set, Center Locating Feeler, Warranty card, Instruction manual
- Packaging: Wooden case

SPECIFICATIONS

| | Dial range | Accuracy | Code No. |
|---------------|------------|----------|-----------------|
| Metric | 0-3mm | 0.005mm | 469-00-6 |
| Inch | 0-.15" | .0002" | 469-00-8 |

Parts

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



469-00-6



Dial Test Indicators

501 / 502 Series

FEATURES

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

STANDARD ACCESSORIES

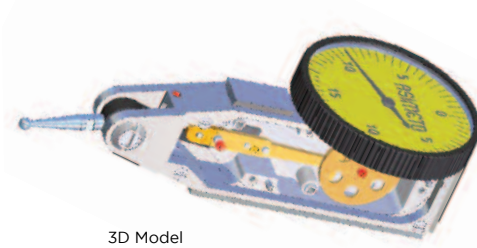
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Plastic case



Horizontal

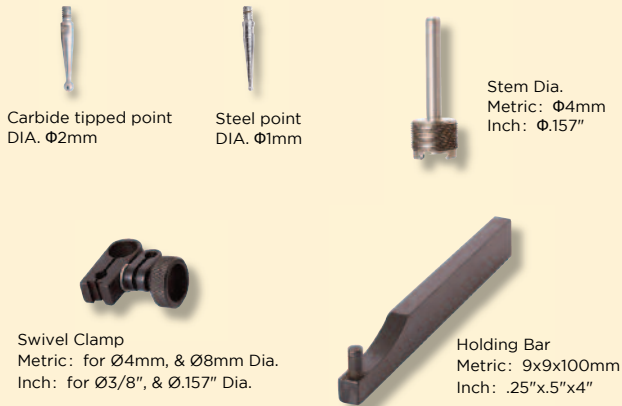


Vertical

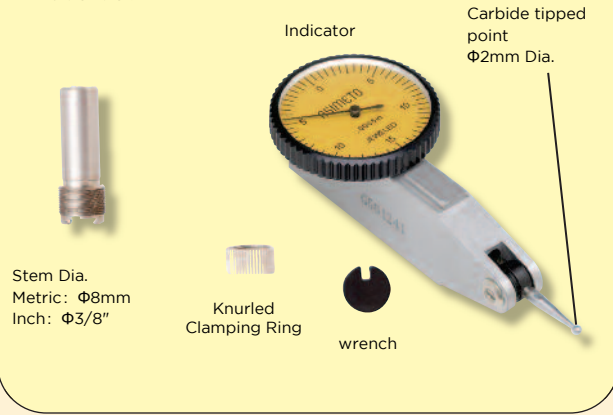


3D Model

Full Set



Base Set



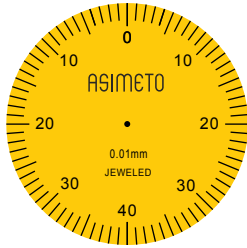
SPECIFICATIONS

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

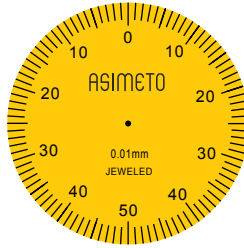


Dial Test Indicators

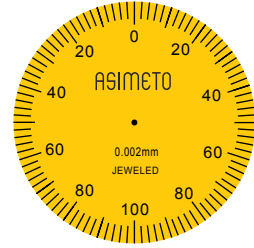
510 / 502 Series



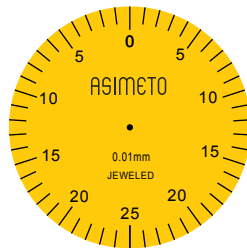
501-08-0 502-08-0
501-08-4 502-08-4
501-08-9 502-08-9



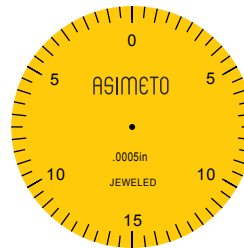
501-10-0 502-10-0
501-10-4 502-10-4
501-10-9 502-10-9



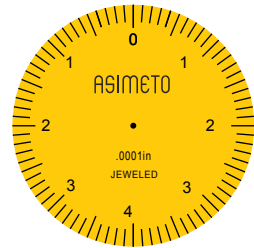
501-02-0 502-02-0
501-02-4 502-02-4
501-02-9 502-02-9



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



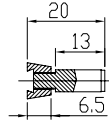
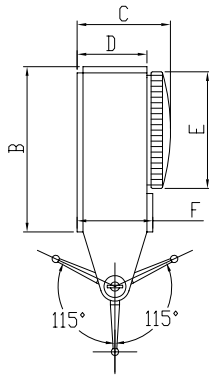
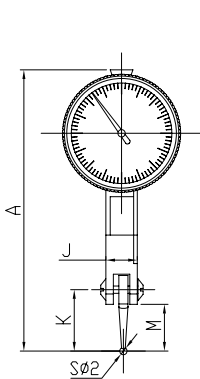
501-73-1 501-73-9
501-73-5
501-73-7



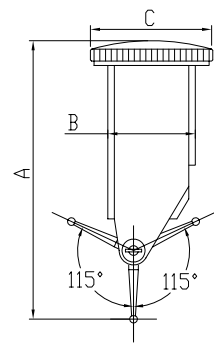
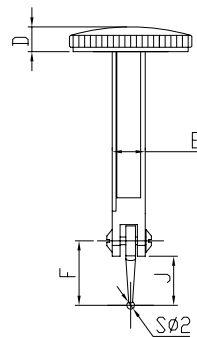
501-78-1
501-78-5
501-78-9

Dimension

Horizontal



Vertical



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

Remark: Refer to Page 82 for the detail length of contact point for different ranges test indicators



Extended range dial test indicators

503 / 504 Series

FEATURES

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

STANDARD ACCESSORIES

- Wrench
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Plastic case



503-06-1



503-56-1



503-16-1

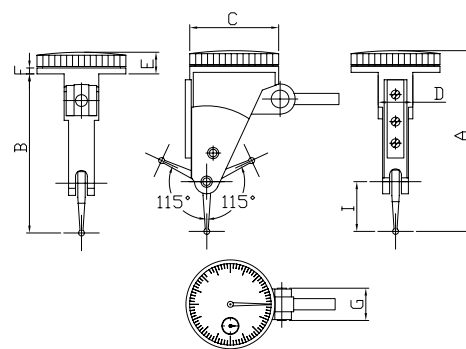
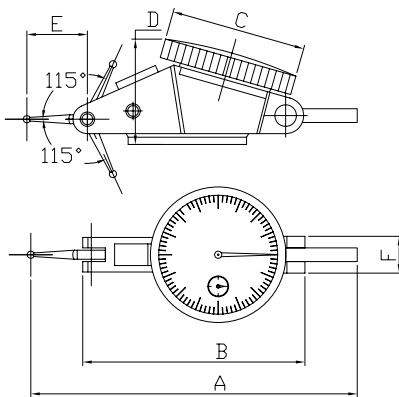
SPECIFICATIONS

| Range | Graduation | Dial Reading | Accuracy | Note | Dia. $\varnothing 30$ mm | Dia. $\varnothing 38$ mm |
|---------------|------------|--------------|--------------|------------|--------------------------|--------------------------|
| | | | | | Code No. | Code No. |
| Inch | | | | | | |
| .060" | .001" | 0-15-0 | $\pm .0012"$ | Horizontal | 503-06-1 | - |
| .060" | .0005" | 0-15-0 | $\pm .0012"$ | Horizontal | 503-56-1 | 504-56-1 |
| .016" | .0001" | 0-4-0 | $\pm .0005"$ | Horizontal | 503-16-1 | 504-16-1 |
| .060" | .001" | 0-15-0 | $\pm .0012"$ | Vertical | 503-06-3 | - |
| .060" | .0005" | 0-15-0 | $\pm .0012"$ | Vertical | 503-56-3 | 504-56-3 |
| .016" | .0001" | 0-4-0 | $\pm .0005"$ | Vertical | - | 504-16-3 |
| Metric | | | | | | |
| 1.6mm | 0.01mm | 0-40-0 | 0.02mm | Horizontal | 503-56-0 | 504-56-0 |
| 0.4mm | 0.002mm | 0-100-0 | 0.006mm | Horizontal | 503-16-0 | 504-16-0 |
| 1.6mm | 0.01mm | 0-40-0 | 0.02mm | Vertical | 503-56-2 | 503-56-2 |
| 0.4mm | 0.002mm | 0-100-0 | 0.006mm | Vertical | - | 504-16-2 |

Dimension

Horizontal

Vertical



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

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



Extended range Dial Test Indicator Sets

504 Series

SET #1

FEATURES

- Double the range of most of indicators
- Jeweled movement and easy to read dial
- Range: 0 - 0.060"
- Two dovetail stems and 3 contact points included: Stems: 3/8" & 5/32", Points: .04" (hardened steel), .08", .12" (tungsten carbide) x 5/8" long

STANDARD ACCESSORIES

- Calibration certificate, Instruction manual, Warranty card, Indicator, wrench
- Height Gage 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
- Packaging: Plastic case



504-56-1

SPECIFICATIONS

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

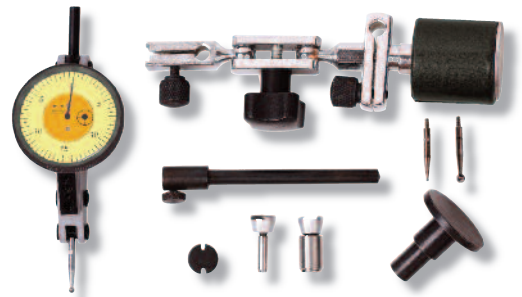
SET #2

FEATURES

- Double the range of most of indicators
- Jeweled movement and easy to read dial
- Supplied with Xtra-Mag magnetic base
- Range: 0 - 0.060", Graduation: 0.0005"
- Dial Reading 0-15-0, Dial Dia.: 1-5/16"
- 5/32" Stem, dovetail on front and back

STANDARD ACCESSORIES

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



504-56-3

SPECIFICATIONS

| Range | Graduation | Dial Dia. | Accuracy | Indicator Code No. | Set Code No. |
|-------|------------|-----------|----------|--------------------|--------------|
| .060" | .0005" | 1.5" | ±0.0012" | 504-56-1 | 504-82-1 |



Optional Accessories for Dial Test Indicators

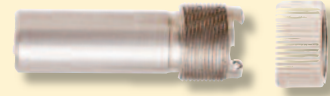
500 Series

Contact Points



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

Dovetail Stem Sets



Kurlined Clamping Ring

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

Swivel Clamps



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

Holding Bars



500-21-0



500-21-1

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

Centering Holder

- Allows large diameter cylinders or holes to be centered



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



Internal Caliper Gauges

400 / 403 Series



400-14-0



403-22-0

FEATURES

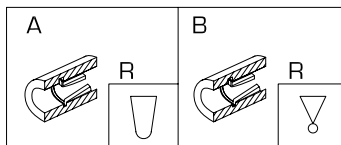
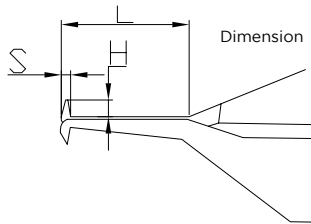
- Resolution:
Digital models: .0002" / 0.005mm; Dial models: .0005" / 0.01mm
- Designed to measure internal grooves, and other intricate detailed internal characteristics
- This measuring instrument provides comparison readings and must be set to the nominal dimension using either micrometer or setting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

STANDARD ACCESSORIES

- CR2032 Battery (Digital models)
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Aluminum case

SPECIFICATIONS

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

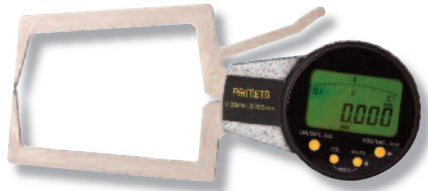


| Metric Range | Inch Range | L | S | H | Measuring contact | |
|--------------|------------|------|-------|-------|-------------------|---------------------|
| | | | | | A(R) | B(D) |
| 5-15mm | .2-.6" | 20mm | 1.0mm | 1.5mm | 0.3mm | / |
| 10-20mm | .4-.8" | 25mm | 1.5mm | 3.0mm | 0.3mm | $\Phi 1.5\text{mm}$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



External Caliper Gauges

404 / 405 Series



404-21-0



405-11-0

FEATURES

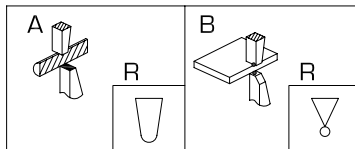
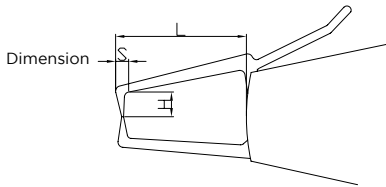
- Resolution:
 - Digital models: .0002" / 0.005mm; Dial models: .0005" / 0.01mm
 - Designed to measure hard to access external work piece characteristics
 - This measuring instrument provides comparison readings and must be set to the nominal dimension using either gauge blocks or an external setting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

STANDARD ACCESSORIES

- CR2032 Battery (Digital models)
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Aluminum case

SPECIFICATIONS

| Range | Arm Length | Tipped Length | Accuracy | Dial models | | Digital models | |
|---------------|------------|---------------|---------------------|-----------------|-----------------|-----------------|-----------------|
| | | | | Type A Code No. | Type B Code No. | Type A Code No. | Type B Code No. |
| Inch | | | | | | | |
| 0-.4" | 20mm | 1.5mm | $\pm .0008"$ | 405-11-1 | 405-11-3 | 404-11-1 | 404-11-3 |
| .4-.8" | 25mm | 3.0mm | $\pm .0008"$ | 405-12-1 | 405-12-3 | 404-12-1 | 404-12-3 |
| .8-1.2" | 30mm | 6.5mm | $\pm .0008"$ | 405-13-1 | 405-13-3 | 404-13-1 | 404-13-3 |
| 1.2-1.6" | 30mm | 9.0mm | $\pm .0008"$ | 405-14-1 | 405-14-3 | 404-14-1 | 404-14-3 |
| 1.6-2.0" | 30mm | 9.0mm | $\pm .0008"$ | 405-15-1 | 405-25-3 | 404-15-1 | 404-15-3 |
| 0-.8" | 35mm | 1.5mm | $\pm .00012"$ | 405-21-1 | 405-21-3 | 404-21-1 | 404-21-3 |
| .4-1.2" | 55mm | 3.5mm | $\pm .00012"$ | 405-22-1 | 405-22-3 | 404-22-1 | 404-22-3 |
| .8-1.6" | 80mm | 6.5mm | $\pm .00012"$ | 405-23-1 | 405-23-3 | 404-23-1 | 404-23-3 |
| 1.2-2.0" | 80mm | 8.5mm | $\pm .00012"$ | 405-24-1 | 405-24-3 | 404-24-1 | 404-24-3 |
| 1.6-2.4" | 80mm | 8.5mm | $\pm .00012"$ | 405-25-1 | 405-25-3 | 404-25-1 | 404-25-3 |
| Metric | | | | | | | |
| 0-10mm | 20mm | 1.5mm | $\pm 0.02\text{mm}$ | 405-11-0 | 405-11-2 | 404-11-0 | 404-11-2 |
| 10-20mm | 25mm | 3.0mm | $\pm 0.02\text{mm}$ | 405-12-0 | 405-12-2 | 404-12-0 | 404-12-2 |
| 20-30mm | 30mm | 6.5mm | $\pm 0.02\text{mm}$ | 405-13-0 | 405-13-2 | 404-13-0 | 404-13-2 |
| 30-40mm | 30mm | 9.0mm | $\pm 0.02\text{mm}$ | 405-14-0 | 405-14-2 | 404-14-0 | 404-14-2 |
| 40-50mm | 30mm | 9.0mm | $\pm 0.02\text{mm}$ | 405-15-0 | 405-15-2 | 404-15-0 | 404-15-2 |
| 0-20mm | 35mm | 1.5mm | $\pm 0.03\text{mm}$ | 405-21-0 | 405-21-2 | 404-21-0 | 404-21-2 |
| 10-30mm | 55mm | 3.5mm | $\pm 0.03\text{mm}$ | 405-22-0 | 405-22-2 | 404-22-0 | 404-22-2 |
| 20-40mm | 80mm | 6.5mm | $\pm 0.03\text{mm}$ | 405-23-0 | 405-23-2 | 404-23-0 | 404-23-2 |
| 30-50mm | 80mm | 8.5mm | $\pm 0.03\text{mm}$ | 405-24-0 | 405-24-2 | 404-24-0 | 404-24-2 |
| 40-60mm | 80mm | 8.5mm | $\pm 0.03\text{mm}$ | 405-25-0 | 405-25-2 | 404-25-0 | 404-25-2 |



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



Magnetic Bases

601 Series

FEATURES

- Accepts test indicators with dovetail clamping mechanism
- Dial gauges can be held by the 3/8 or 8mm diameter stem or by the lug backing plate
- The rotary knob switches natural magnet on or off
- The precision surfaces and the bottom V are securely fastened to the ferrous work piece or machine table when the rotary knob is in the on position
- #601-02-0/1 with Fine Adjustment
- 132 lb / 60kg magnetic pull
- Packaging: Cardboard box



601-01-1



601-02-1

SPECIFICATIONS

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

Articulating Arm Magnetic Bases

602- Series

FEATURES

- Accepts test indicators with dovetail clamping mechanism
- Dial gauges can be held by the 3/8 or 8mm diameter stem or by the lug backing plate
- Arm has 3 articulating joints that can be locked with the single hand knob
- The rotary knob switches natural magnet on or off
- The precision surfaces and the bottom V are securely fastened to the ferrous work piece or machine table when the rotary knob is in the on position
- 132 lb / 60kg magnetic pull
- Packaging: Cardboard box



602-02-1



602-31-0

SPECIFICATIONS

| Model | Magnetic Power | Magnetic Base | Height | Dia. of Hole | | Working Angle | Code No. |
|-------|----------------|---------------|--------|--------------|-------|---------------|-----------------|
| | | (L X W X H) | | Hole | Slot | | |
| I | 30 kg | 36x30x35mm | 180mm | Φ3/8"/Φ8mm | 6.5mm | 150° | 602-01-1 |
| II | 60 kg | 60x50x55mm | 280mm | Φ3/8"/ 8mm | 6.5mm | 150° | 602-02-1 |
| III | 60 kg | 60x50x55mm | 340mm | Φ3/8"/ 8mm | 6.5mm | 150° | 602-03-1 |
| IV | 60 kg | 60x50x55mm | 390mm | Φ3/8"/ 8mm | 6.5mm | 150° | 602-31-0 |

Magnetic Bases

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



600-01-1



Flexible Arm Magnetic Base

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
- Packaging: Cardboard box

SPECIFICATIONS

| Magnetic Power | Magnetic Base (L X W X H) | Main Stem Length | Dia. of Hole | Working Angle | Code No. |
|----------------|------------------------------|------------------|--------------|---------------|----------|
| 60 kg | 60x50x55mm | 360mm | Φ8mm | 150° | 601-11-1 |
| 60 kg | 60x50x55mm | 360mm | Φ3/8" | 150° | 601-11-0 |



601-11-0

Permanent Magnetic Base

601 Series

FEATURES

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

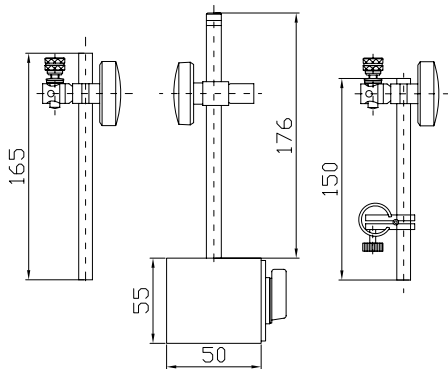
SPECIFICATIONS

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

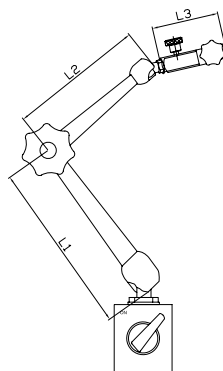


601-12-0

Dimension



Articulating Arm Magnetic Base



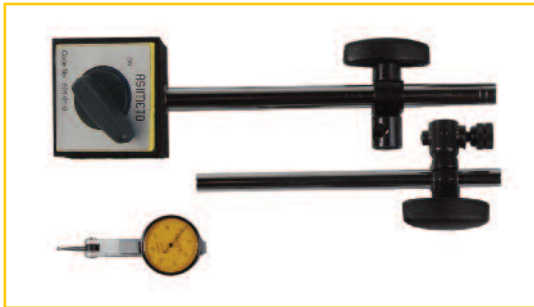
| Models | L1 | L2 | L3 | Toal |
|--------|-----|-----|----|------|
| | mm | mm | mm | mm |
| I | 65 | 55 | 60 | 180 |
| II | 110 | 110 | 60 | 280 |
| III | 160 | 120 | 60 | 340 |
| IV | 200 | 130 | 60 | 390 |



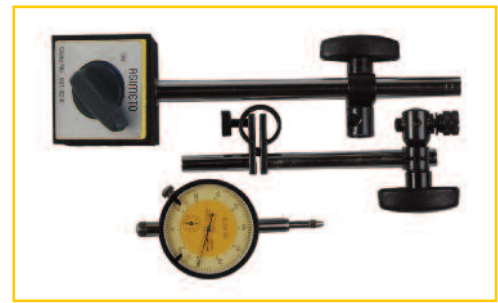
Tool Kits

960 Series

- Packed in plastic carry case



960-10-0



960-08-0

Kit #6 Magnetic Base and Dial Gauge

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

Kit #7 Magnetic Base and Dial Gauge Plus

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

Kit #8 Magnetic Adj. Base and Dial Gauge

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

Kit #9 Magnetic Adj. Base and Dial Gauge Plus

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

Kit #10 Magnetic Base and Test Indicator

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

Kit #11 Magnetic Base and Test Indicator Plus

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

Kit #12 Magnetic Adj. Base and Test Indicator

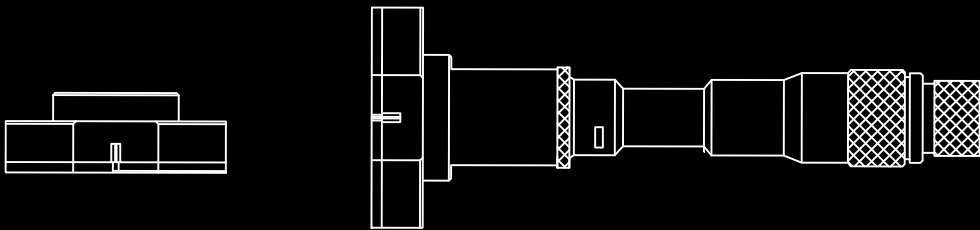
| | Inch | Metric |
|---|----------------------------|----------------------------|
| Code No. | 960-12-1 | 960-12-0 |
| Individual Description | Individual Code No. | Individual Code No. |
| Magnetic Stand with 6" Rods and Universal Clamp / Fine Adjustment | 601-02-1 | 601-02-0 |
| HORIZ. Dial Test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

Kit #13 Magnetic Adj. Base and Test Indicator Plus

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

Holtests & Bore Gauges

- 89 Two and Three Point Internal Micrometers
- 93 Inside Micrometers
- 94 Dual Measurement Inside Micrometers
- 94 Tubular Inside Micrometers
- 95 Inside Micrometers - Interchangeable Rod Type
- 96 Dial Bore Gauges
- 97 Extensions for Dial Bore Gauges
- 97 Large Diameter Dial Bore Gauges
- 98 Digital Bore Gauges





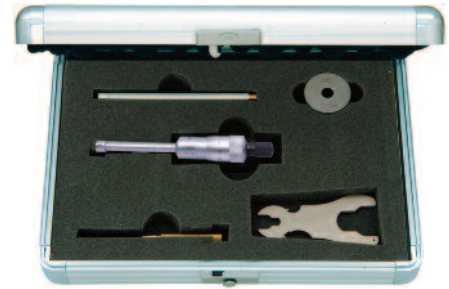
Two and Three Point Internal Micrometers (2-12mm)



208-12-0



209-09-0



209-12-0

FEATURES

- Resolution:
Digital models: .00005" / 0.001mm
Mechanical models: .0001" / 0.001mm
- Protection level IP65
- Ratchet stop
- Setting rings supplied
- Measuring contact points are designed to allow measurements near to the bottom of blind holes
- Up to and including 6mm or .24 inch models are with two measuring points
- For models 7mm or .275 inch and above are with three measuring points

STANDARD ACCESSORIES

- SR44 Battery (Digital models),
Setting Rings,
Extension Rods (over 6-8mm range),
S-wrench, Screwdriver
- Warranty card, Instruction manual,
Calibration certificate
- Packaging: Aluminum case

SPECIFICATIONS

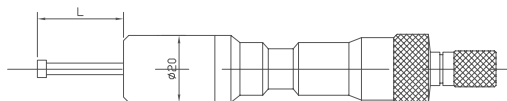
Digital models

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

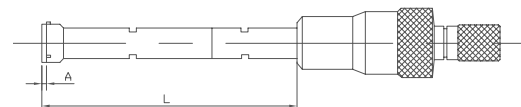
Mechanical models

| Inch | | | Metric | | | | | | Inch | | Metric | |
|-----------|----------|---------------|---------|----------|---------------|--------|-------|----------------|-----------------|-----------------|--------|--|
| Range | Accuracy | Setting Rings | Range | Accuracy | Setting Rings | L | A | Extension Rods | Code No. | Code No. | | |
| .08-.1" | ±.00016" | .1" | 2-2.5mm | ±0.004mm | 2.5mm | 12.5mm | - | - | 209-06-1 | 209-06-0 | | |
| .1-.12" | ±.00016" | .1" | 2.5-3mm | ±0.004mm | 2.5mm | 12.5mm | - | - | 209-07-1 | 209-07-0 | | |
| .12-.16" | ±.00016" | .16" | 3-4mm | ±0.004mm | 4mm | 22.5mm | - | - | 209-08-1 | 209-08-0 | | |
| .16-.2" | ±.00016" | .16" | 4-5mm | ±0.004mm | 5mm | 22.5mm | - | - | 209-09-1 | 209-09-0 | | |
| .2-.24" | ±.00016" | .24" | 5-6mm | ±0.004mm | 6mm | 22.5mm | - | - | 209-10-1 | 209-10-0 | | |
| .24-.28" | ±.00016" | .24" | - | - | - | - | - | - | 209-10-5 | - | | |
| .275-.35" | ±.00016" | .275" | 6-8mm | ±0.004mm | 6mm | 53.5mm | 0.5mm | 100mm | 209-11-1 | 209-11-0 | | |
| .35-.425" | ±.00016" | .35" | 8-10mm | ±0.004mm | 8mm | 53.5mm | 0.5mm | 100mm | 209-12-1 | 209-12-0 | | |
| .425-.5" | ±.00016" | .5" | 10-12mm | ±0.004mm | 10mm | 53.5mm | 0.5mm | 100mm | 209-13-1 | 209-13-0 | | |

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



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





Three-Point Internal Micrometers (12-100mm)

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 rings for origin point setting
- Measuring contact points are designed to allow measurements near to the bottom of blind holes
- Additional extensions can be added to increase the measuring depth
- Measuring surfaces are carbide

STANDARD ACCESSORIES

- SR44 Battery (Digital models),
Extension Rods (over 6-8mm range),
Wrench, Screwdriver, Setting Rings
- Warranty card, Instruction manual,
Calibration certificate
- Packaging: Aluminum case

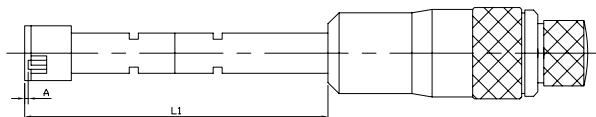
SPECIFICATIONS

Digital models

| Inch | | | Metric | | | | | | Inch | | Metric | |
|----------|----------|---------------|----------|----------|---------------|-------|-------|----------------|-----------------|-----------------|--------|--|
| Range | Accuracy | Setting Rings | Range | Accuracy | Setting Rings | L1 | A | Extension Rods | Code No. | Code No. | | |
| .5-.65" | ±.00016" | .65" | 12-16mm | ±0.004mm | 16mm | 80mm | 0.5mm | 150mm | 208-24-1 | 208-24-0 | | |
| .65-.8" | ±.00016" | .65" | 16-20mm | ±0.004mm | 16mm | 80mm | 0.5mm | 150mm | 208-25-1 | 208-25-0 | | |
| .8-1" | ±.00016" | 1" | 20-25mm | ±0.004mm | 25mm | 90mm | 0.5mm | 150mm | 208-26-1 | 208-26-0 | | |
| 1-1.2" | ±.00016" | 1" | 25-30mm | ±0.004mm | 25mm | 90mm | 0.5mm | 150mm | 208-27-1 | 208-27-0 | | |
| 1.2-1.6" | ±.00016" | 1.6" | 30-40mm | ±0.004mm | 40mm | 97mm | 0.5mm | 150mm | 208-28-1 | 208-28-0 | | |
| 1.6-2" | ±.0002" | 1.6" | 40-50mm | ±0.005mm | 40mm | 97mm | 0.5mm | 150mm | 208-29-1 | 208-29-0 | | |
| 2-2.5" | ±.0002" | 2.5" | 50-63mm | ±0.005mm | 62mm | 114mm | 0.5mm | 150mm | 208-30-1 | 208-30-0 | | |
| 2.5-3" | ±.0002" | 2.5" | 62-75mm | ±0.005mm | 62mm | 114mm | 0.5mm | 150mm | 208-31-1 | 208-31-0 | | |
| 3-3.5" | ±.0002" | 3.5" | 75-88mm | ±0.005mm | 87mm | 114mm | 0.5mm | 150mm | 208-32-1 | 208-32-0 | | |
| 3.5-4" | ±.0002" | 3.5" | 87-100mm | ±0.005mm | 87mm | 114mm | 0.5mm | 150mm | 208-33-1 | 208-33-0 | | |

Mechanical models

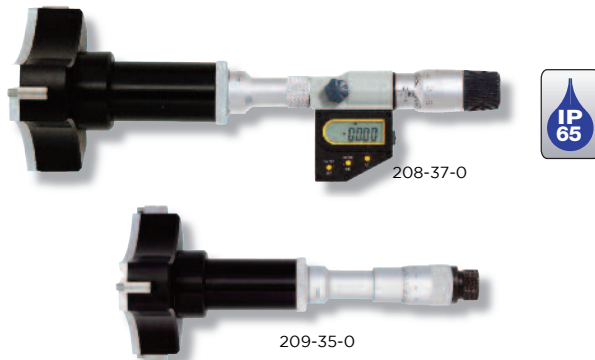
| Inch | | | Metric | | | | | | Inch | | Metric | |
|----------|----------|---------------|----------|----------|---------------|-------|-------|----------------|-----------------|-----------------|--------|--|
| Range | Accuracy | Setting Rings | Range | Accuracy | Setting Rings | L1 | A | Extension Rods | Code No. | Code No. | | |
| .5-.65" | ±.00016" | .65" | 12-16mm | ±0.004mm | 16mm | 80mm | 0.5mm | 150mm | 209-24-1 | 209-24-0 | | |
| .65-.8" | ±.00016" | .65" | 16-20mm | ±0.004mm | 16mm | 80mm | 0.5mm | 150mm | 209-25-1 | 209-25-0 | | |
| .8-1" | ±.00016" | 1" | 20-25mm | ±0.004mm | 25mm | 90mm | 0.5mm | 150mm | 209-26-1 | 209-26-0 | | |
| 1-1.2" | ±.00016" | 1" | 25-30mm | ±0.004mm | 25mm | 90mm | 0.5mm | 150mm | 209-27-1 | 209-27-0 | | |
| 1.2-1.6" | ±.00016" | 1.6" | 30-40mm | ±0.004mm | 40mm | 97mm | 0.5mm | 150mm | 209-28-1 | 209-28-0 | | |
| 1.6-2" | ±.0002" | 1.6" | 40-50mm | ±0.005mm | 40mm | 97mm | 0.5mm | 150mm | 209-29-1 | 209-29-0 | | |
| 2-2.5" | ±.0002" | 2.5" | 50-63mm | ±0.005mm | 62mm | 114mm | 0.5mm | 150mm | 209-30-1 | 209-30-0 | | |
| 2.5-3" | ±.0002" | 2.5" | 62-75mm | ±0.005mm | 62mm | 114mm | 0.5mm | 150mm | 209-31-1 | 209-31-0 | | |
| 3-3.5" | ±.0002" | 3.5" | 75-88mm | ±0.005mm | 87mm | 114mm | 0.5mm | 150mm | 209-32-1 | 209-32-0 | | |
| 3.5-4" | ±.0002" | 3.5" | 87-100mm | ±0.005mm | 87mm | 114mm | 0.5mm | 150mm | 209-33-1 | 209-33-0 | | |





Three-Point Internal Micrometers (100-300mm)

208 / 209 Series



FEATURES

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

STANDARD ACCESSORIES

- SR44 Battery (Digital models)
- Extension Rods (over 6-8mm range)
- Wrench, Screwdriver
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Aluminum case

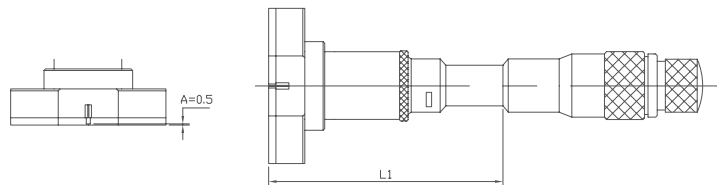
SPECIFICATIONS

Digital models

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

Mechanical models

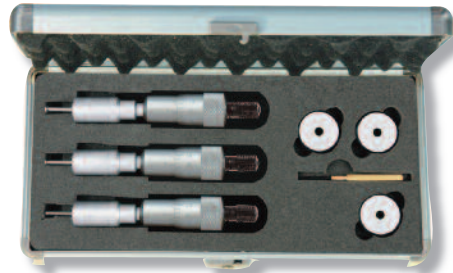
| Inch | | | Metric | | | Inch | | | | Metric | |
|--------|----------|---------------|-----------|----------|---------------|-------|----------------|-----------------|-----------------|----------|----------|
| Range | Accuracy | Setting Rings | Range | Accuracy | Setting Rings | L1 | Extension Rods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





Two and Three Point Internal Micrometers Sets

208 / 209 Series



208-62-8

SPECIFICATIONS

Digital models

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

Mechanical models

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



Inside Micrometers

203 / 207 Series

FEATURES

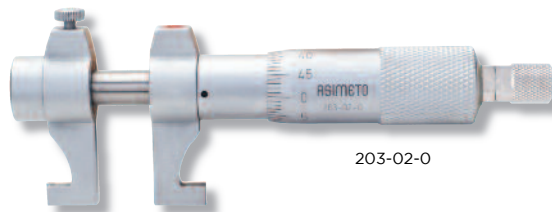
- Resolution:
Digital models: .00005" / 0.001mm
Mechanical models: .001" / 0.01mm
- Designed for the measurement of intricate internal characteristics
- 207 Series has solid carbide pins for measurement contact points
- Satin chrome finished
- .2-1.2"/5-30mm and 1-2"/25-50mm range are supplied with setting rings
- Ratchet stop
- Digital System same as 105- Series

STANDARD ACCESSORIES

- SR44 Battery (Digital models), S-wrench, Setting rings
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Wooden case



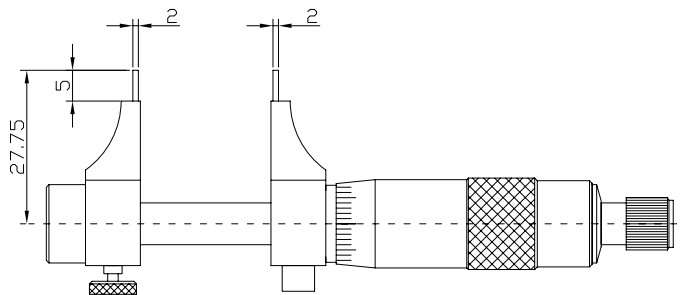
207-01-1



203-02-0

SPECIFICATIONS

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



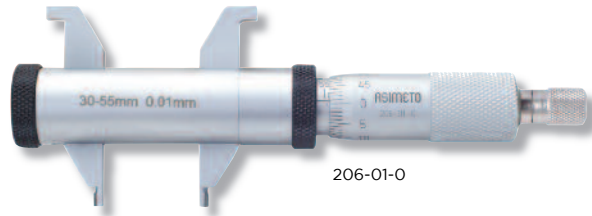


Dual Measurement Inside Micrometers

206 Series

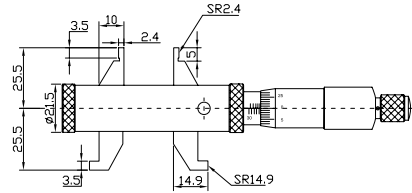
FEATURES

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



STANDARD ACCESSORIES

- S-wrench, Setting rings
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Wooden case



SPECIFICATIONS

| Upper Range | Lower Range | Graduation | Accuracy | Code No. |
|---------------|-------------|------------|----------|----------|
| Inch | | | | |
| .2-1.2" | 1.2-2.2" | .001" | ±0.0024" | 206-01-1 |
| Metric | | | | |
| 5-30mm | 30-55mm | 0.01mm | ±0.008mm | 206-01-0 |

Tubular Inside Micrometers

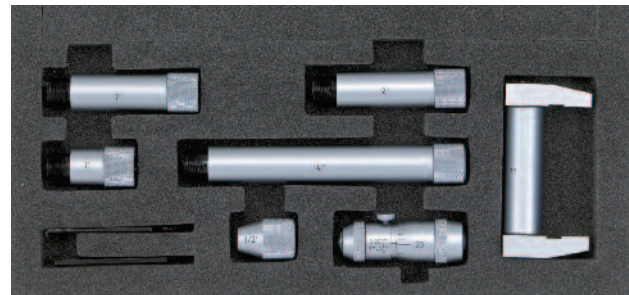
240 Series

SPECIFICATIONS

- Graduation: .001" / 0.01mm
- Offers a wide range of ID measurements by combining extension rods with the micrometer head
- Supplied with a standard caliper gauge for zero setting
- The combining of extension rods provide a wide measuring range
- Carbide measuring faces
- Diameter of extension rods:Ø15.5mm
- Accuracy: Metric (3+n+L/50)µm, Inch [0.00005 x (3+n+L/2)]" (n= number of rod, L=maximum measuring length (mm) [Inch])

STANDARD ACCESSORIES

- S-wrench, Standard caliper gage, Extension rods, Micrometer Head
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Wooden case



240-01-1

SPECIFICATIONS

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



Inside Micrometers - Interchangeable Rod Type

242 Series



242-40-1

FEATURES

- Graduation: .001" / 0.01mm.
- Rods marked with its measuring range
- Satin chrome finish throughout
- All contact points hardened for extra long tool life
- With locking clamp
- Zero point can be readjusted by rotating the micrometer head sleeve
- Carbide tipped measuring faces

STANDARD ACCESSORIES

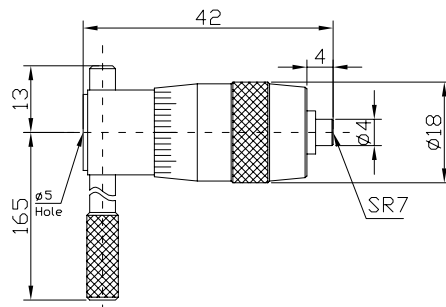
- Micrometer Head, Extension Rods, S-wrench
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Wooden case

SPECIFICATIONS

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

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

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





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
- Packaging: Wooden case



.24-.4"/6-10mm



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



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



Over 1.4"/35mm
Wheel guide



484-22-0

SPECIFICATIONS

| Range | Graduation | Dial Travel | Number of Anvils | Number of Spacers | Number of Sub-anvils | Probe Depth | Code No. |
|---------------|-------------------|--------------------------------|------------------|----------------------|----------------------|-----------------|-----------------|
| Inch | | Dial Code No.: 402-01-3 | | | | | |
| .24-.4" | .0001" | .05" | 9 | - | - | 2" | 483-11-1 |
| .4-.7" | .0001" | .05" | 9 | 1 | - | 4" | 483-12-1 |
| .7-1.5" | .0001" | .05" | 10 | 2 | - | 6" | 483-21-1 |
| 1.4-2.4" | .0001" | .05" | 6 | 4 | - | 6" | 483-22-1 |
| 2-6" | .0001" | .05" | 11 | 4 | 1 | 6" | 483-31-1 |
| 6-10" | .0001" | .05" | 6 | 6 | 1 | 10" | 483-32-1 |
| 10-16" | .0001" | .05" | 6 | 6 | 2 | 16" | 483-33-1 |
| Metric | | Dial Code No.: 402-01-2 | | | | | |
| 6-10mm | 0.001mm | 1mm | 9 | - | - | 40mm | 483-11-0 |
| 10-18mm | 0.001mm | 1mm | 9 | 1 | - | 100mm | 483-12-0 |
| 18-35mm | 0.001mm | 1mm | 9 | 1 | - | 150mm | 483-21-0 |
| 35-50mm | 0.001mm | 1mm | 4 | 4 | - | 150mm | 483-22-0 |
| 50-160mm | 0.001mm | 1mm | 12 | 4 | 1 | 150mm | 483-31-0 |
| 160-250mm | 0.001mm | 1mm | 5 | 5 | 1 | 250mm | 483-32-0 |
| 250-400mm | 0.001mm | 1mm | 5 | 5 | 2 | 400mm | 483-33-0 |
| Metric | | Dial Code No.: 402-03-2 | | | | | |
| 6-10mm | 0.01mm | 3mm | 9 | - | - | 40mm | 484-11-0 |
| 10-18mm | 0.01mm | 3mm | 9 | 1 | - | 100mm | 484-12-0 |
| 18-35mm | 0.01mm | 3mm | 9 | 2 | - | 150mm | 484-21-0 |
| 35-50mm | 0.01mm | 3mm | 4 | 4 | - | 150mm | 484-22-0 |
| 50-160mm | 0.01mm | 3mm | 12 | 4 | 1 | 150mm | 484-31-0 |
| 160-250mm | 0.01mm | 3mm | 5 | 5 | 1 | 250mm | 484-32-0 |
| 250-400mm | 0.01mm | 3mm | 5 | 5 | 2 | 400mm | 484-33-0 |
| Set | | | | | | | |
| Range | Graduation | Individual Holer | | Indicator | | Code No. | |
| 18-160mm | 0.01mm | 18-35mm, 35-50mm, 50-160mm | | 402-03-2 3mmx0.01mm | | 484-63-8 | |
| 18-160mm | 0.001mm | 18-35mm, 35-50mm, 50-160mm | | 402-01-2 1mmx0.001mm | | 483-63-8 | |



Extensions for Dial Bore Gauges

483 / 484 Series

FEATURES

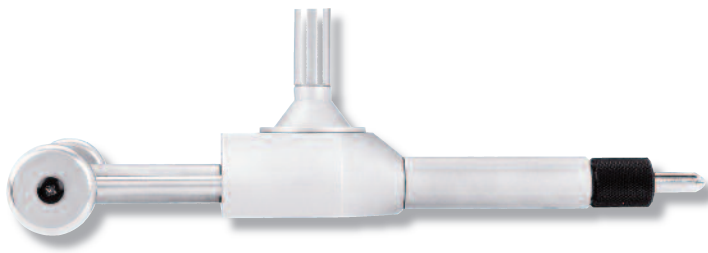
- Increases the depth that measurements can be taken with the standard type of dial bore gauge
- Packaging: Wooden case

SPECIFICATIONS

| Range | Graduation | Dial Travel | Depth / Code No. | | | |
|-------------|------------|-------------|------------------|-----------|------------|-----------|
| Inch | | | 19.7" | 39.4" | 59.1" | 78.7" |
| 1.4"-2.4" | .0005" | .25" | 483-22-105 | 483-22-11 | 483-22-115 | 483-22-12 |
| 2.0"-6.0" | .0005" | .25" | 483-31-105 | 483-31-11 | 483-31-115 | 483-31-12 |
| 6.0"-10.0" | .0005" | .25" | 483-32-105 | 483-32-11 | 483-32-115 | 483-32-12 |
| 10.0"-16.0" | .0005" | .25" | 483-33-105 | 483-33-11 | 483-33-115 | 483-33-12 |
| Metric | | | 500mm | 1000mm | 1500mm | 2000mm |
| 35-50mm | 0.01mm | 3mm | 484-22-005 | 484-22-01 | 484-22-015 | 484-22-02 |
| 50-160mm | 0.01mm | 3mm | 484-31-005 | 484-31-01 | 484-31-015 | 484-31-02 |
| 160-250mm | 0.01mm | 3mm | 484-32-005 | 484-32-01 | 484-32-015 | 484-32-02 |
| 250-400mm | 0.01mm | 3mm | 484-33-005 | 484-33-01 | 484-33-015 | 484-33-02 |

Large Diameter Bore Gauges

484 Series



FEATURES

- Carbide tipped contact point, wheel guide
- Equipped with dial indicator #402-03-2
- Packaging: Wooden case

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 | 3mm | 1.5mm | 8 | 2 | 1 | 150mm | 484-41-0 |
| 30-100mm | 0.01mm | 3mm | 1.8mm | 5 | 3 | 2 | 150mm | 484-42-0 |
| 50-100mm | 0.01mm | 3mm | 4mm | 10 | 2 | - | 200mm | 484-43-0 |
| 100-160mm | 0.01mm | 3mm | 4mm | 7 | 4 | - | 300mm | 484-44-0 |
| 100-300mm | 0.01mm | 3mm | 3mm | 6 | 4 | 2 | 250mm | 484-45-0 |
| 160-250mm | 0.01mm | 3mm | 4mm | 5 | 4 | 2 | 400mm | 484-46-0 |
| 250-450mm | 0.01mm | 3mm | 6mm | 5 | 4 | 2 | 500mm | 484-47-0 |
| 450-700mm | 0.01mm | 3mm | 8mm | 5 | 4 | 4 | 500mm | 484-48-0 |
| 700-1000mm | 0.01mm | 3mm | 8mm | 5 | 4 | 5 | 500mm | 484-49-0 |



Digital Bore Gauges

485 Series

FEATURES

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

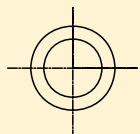
- List on Specification
- Warranty card, Instruction manual, Calibration certificate
- Packaging: Wooden case



SPECIFICATIONS

| Inch Range | Metric Range | Number of Anvils | Number of Spacers | Number of Sub-anvils | Probe Depth | Inch Code No. | Metric Code No. |
|------------|--------------|------------------|-------------------|----------------------|-------------|---------------|-----------------|
| .24"-.4" | 6-10mm | 9 | - | - | 2"/40mm | 485-11-1 | 485-11-0 |
| .4-.74" | 10-18mm | 9 | 1 | - | 4"/100mm | 485-12-1 | 485-12-0 |
| .7-1.4" | 18-35mm | 9 | 2 | - | 4"/100mm | 485-21-1 | 485-21-0 |
| 1.4-2.0" | 35-50mm | 4 | 4 | - | 6"/150mm | 485-22-1 | 485-22-0 |
| 2-6" | 50-160mm | 12 | 4 | 1 | 6"/150mm | 485-31-1 | 485-31-0 |
| 6.4-10" | 160-250mm | 5 | 6 | 1 | 10"/250mm | 485-32-1 | 485-32-0 |
| 10-16" | 250-400mm | 5 | 6 | 2 | 10"/400mm | 485-33-1 | 485-33-0 |

Accessories



Washers



Sub-Anvils

Metric Washers and Sub-Anvils

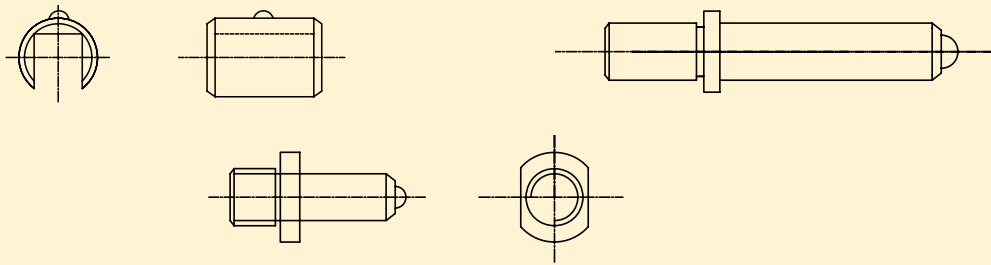
| Range | Qty. | Washers (mm) | | | | | Sub-Anvils (mm) | | | |
|-----------|------|--------------|----|----|----|----|-----------------|----|-----|--|
| | | #1 | #2 | #3 | #4 | #5 | Qty. | #1 | #2 | |
| 6-10mm | | | | | | | | | | |
| 10-18mm | 1 | 0.5 | | | | | | | | |
| 18-35mm | 2 | 0.5 | 1 | | |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



Accessories

Inch Washers and Sub-Anvils

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



Adjustment Anvils

Metric Adjustment Anvils

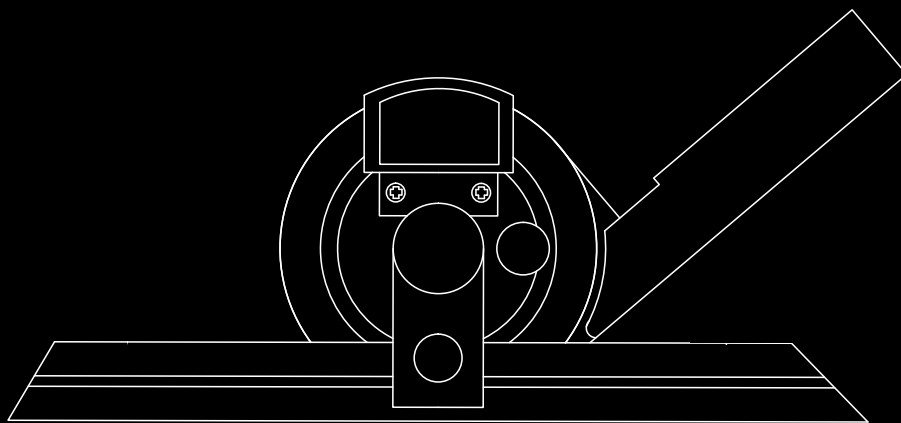
| Range | Anvils Range (mm) | | | | | | | | | | | | |
|-----------|-------------------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|-----|
| | Qty. | #1 | #2 | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 | #11 | #12 |
| 6-10mm | 9 | 6 | 6.5 | 7 | 7.5 | 8 | 8.5 | 9 | 9.5 | 10 | | | |
| 10-18mm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

Inch Adjustment Anvils

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

Other Gauge

- 101 Protractors
- 101 Universal Bevel Protractors
- 102 Dial Protractors
- 102 Digital Protractors
- 103 Digital Protractors - Level Type
- 103 Combination Square Sets
- 104 Steel Squares
- 104 Granite Squares
- 105 Straight Knife Edges
- 105 5-pcs Square Sets
- 105 Flexible Steel Rules
- 106 Angle Gauges
- 106 Angle Blocks
- 107 Thread Pitch Gauges
- 107 Center Gauges
- 108 Radius Gauges
- 108 Thickness Gauges
- 109 Spring Dividers and Calipers
- 109 Precision Levels
- 110 V-Blocks with Clamps
- 110 Optical Flat and Parallels
- 111 High Precision Metric Parallels
- 112 Granite Surface Plates
- 113 Granite Plate Stands
- 113 Dial Gauge Stands





Protractors 490 Series

FEATURES

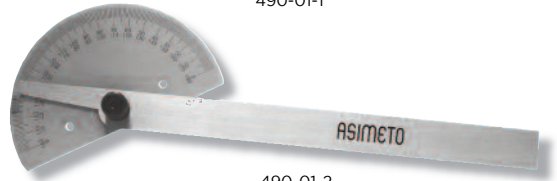
- Graduation: 1°
- Base and scale are stainless steel
- 150mm/6" arm, Ø85mm protractor
- Packaging: Fitted leather case

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 |



490-01-1



490-01-2

Universal Bevel Protractors 490 Series

FEATURES

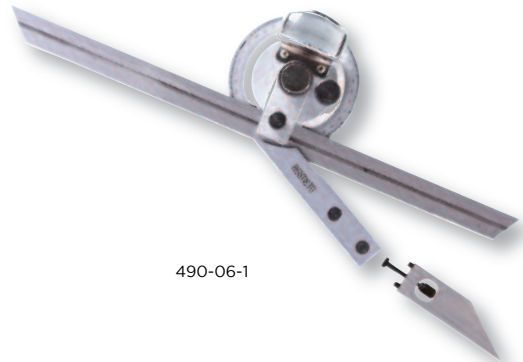
- Dial Graduation: 1°, Vernier: 5'
- Designed to provide precise angular measurements
- Magnifying glass is provided for easier reading
- Can be used with a standard height gauge to provide angular measurement from reference plate
- Accuracy: ±5

STANDARD ACCESSORIES

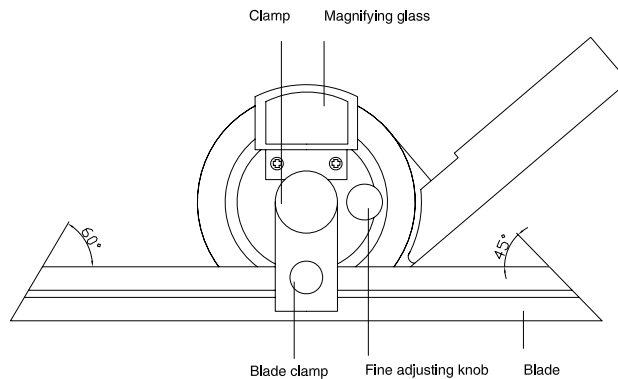
- Base, Blades, Bevel Blades, Warranty card, Instruction manual
- Packaging: Wooden case

SPECIFICATIONS

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



490-06-1





Dial Protractors 490 Series

FEATURES

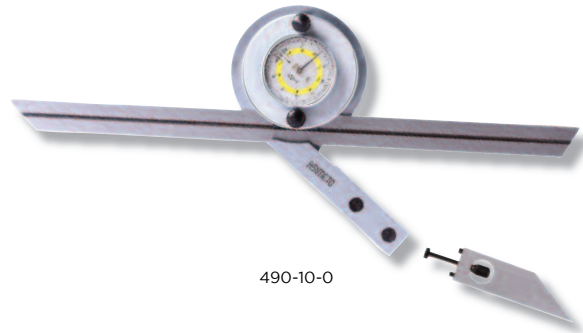
- Measuring Range: 0-360°, Graduation: 5'
- Designed with analog readout and fine adjustment to provide precise angular measurements
- Can be used with a standard height gauge to provide angular measurement from reference plate
- Accuracy: ± 5

STANDARD ACCESSORIES

- Base, Blades (3 pcs), Bevel Blade
- Warranty card, Instruction manual
- Packaging: Wooden case

SPECIFICATIONS

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



490-10-0

Digital Protractors 490 Series

FEATURES

- Resolution: 30"/0.008°
- Measuring Range: 0-360°
- Range selection: 1 x 360°, 2 x 180°, 4 x 90°
- Dual reading LCD display arc minutes / decimal degrees
- With find adjustment
- Preset function
- Accuracy: ± 5 min

STANDARD ACCESSORIES

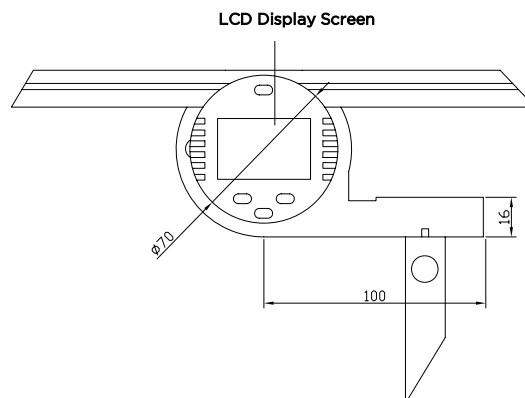
- Base, Blades (3 pcs), Bevel Blade, Setting Square
- Warranty card, Instruction manual
- Packaging: Wooden case

SPECIFICATIONS

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



490-15-0





Digital Protractors - Level Type

490 Series

FEATURES

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



490-16-0

STANDARD ACCESSORIES

- CR2032 3V Battery, Warranty card, Instruction manual
- Packaging: Cardboard box

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 |

Combination Square Set

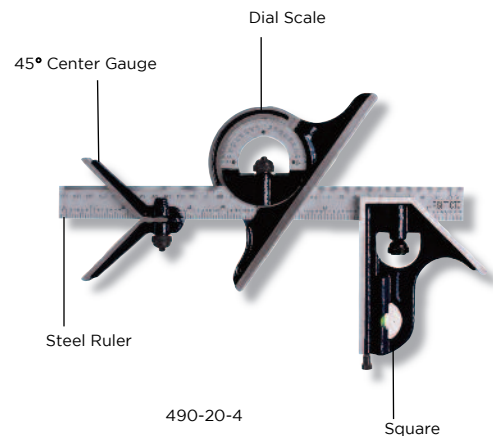
490 Series

FEATURES

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

SPECIFICATIONS

| Description | Blade Length | Code No. |
|--|--------------|----------|
| 4 pcs Set | 12"/300mm | 490-20-4 |
| 3 pcs Set (Blades, Squares, 45° Center Gauges) | 12"/300mm | 490-20-3 |
| 3 pcs Set (Blades, Squares, 45° Center Gauges) | 6"/300mm | 490-20-6 |
| 2 pcs Set (Blades, Squares) | 12"/300mm | 490-20-2 |





Steel Squares

639 Series

FEATURES

- Made of precision ground hardened stainless steel
- Accuracy according to DIN875
- Packaging: Cardboard box

SPECIFICATIONS

| Inch Size | Metric Size | Regular Type | | Bevel Type | |
|--|-------------|--------------|----------|------------|----------|
| | | Squareness | Code No. | Squareness | Code No. |
| General Type Squares | | | | | |
| 2" x 1.6" | 50 x 40mm | 0 | 639-21-4 | 00 | 639-21-0 |
| 3" x 2" | 75 x 50mm | 0 | 639-22-4 | 00 | 639-22-0 |
| 4" x 2.75" | 100 x 70mm | 0 | 639-23-4 | 00 | 639-23-0 |
| 6" x 4" | 150 x 100mm | 0 | 639-24-4 | 00 | 639-24-0 |
| 8" x 5" | 200 x 130mm | 0 | 639-25-4 | 00 | 639-25-0 |
| 10" x 6.5" | 250 x 160mm | 0 | 639-26-4 | 00 | 639-26-0 |
| 12" x 8" | 300 x 200mm | 0 | 639-27-4 | 00 | 639-27-0 |
| 16" x 10" | 400 x 265mm | 1 | 639-28-4 | - | - |
| 20" x 12" | 500 x 330mm | 1 | 639-29-4 | - | - |
| Squares with Wider Base, "Engineers Square" | | | | | |
| 2" x 1.6" | 50 x 40mm | 0 | 639-31-4 | 00 | 639-31-0 |
| 3" x 2" | 75 x 50mm | 0 | 639-32-4 | 00 | 639-32-0 |
| 4" x 2.75" | 100 x 70mm | 0 | 639-33-4 | 00 | 639-33-0 |
| 6" x 4" | 150 x 100mm | 0 | 639-34-4 | 00 | 639-34-0 |
| 8" x 5" | 200 x 130mm | 0 | 639-35-4 | 00 | 639-35-0 |
| 10" x 6.5" | 250 x 165mm | 0 | 639-36-4 | 00 | 639-36-0 |
| 12" x 8" | 300 x 200mm | 0 | 639-37-4 | 00 | 639-37-0 |
| Squares with Extra Base | | | | | |
| 3" x 2" | 75 x 50mm | 0 | 639-53-0 | 00 | 639-53-1 |
| 4" x 2.75" | 100 x 70mm | 0 | 639-54-0 | 00 | 639-54-1 |
| 6" x 4" | 150 x 100mm | 0 | 639-55-0 | 00 | 639-55-1 |
| 8" x 5" | 200 x 130mm | 0 | 639-56-0 | 00 | 639-56-1 |
| 10" x 6.5" | 250 x 160mm | 0 | 639-57-0 | 00 | 639-57-1 |
| 12" x 8" | 300 x 200mm | 0 | 639-58-0 | 00 | 639-58-1 |
| 16" x 10" | 400 x 265mm | 1 | 639-59-0 | - | - |
| 20" x 12" | 500 x 330mm | 1 | 639-60-0 | - | - |



639-33-4



639-53-0

Granite Squares

639 Series

FEATURES

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

SPECIFICATIONS

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



639-03-0



Straight Knife Edges

639 Series

FEATURES

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

SPECIFICATIONS

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



639-73-0

5-pcs Square Sets

- Packaging: Wooden case

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



639-00-8

Flexible Steel Rules

606 Series

FEATURES

- Made of hardened tool steels
- Packaging: Vinyl case



606-02-0

SPECIFICATIONS

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



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
- Packaging: Vinyl case



SPECIFICATIONS

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

Individual Gauges Included

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

Angle Blocks

605 Series

FEATURES

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

SPECIFICATIONS

10 pcs Set

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

2 pcs Set

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

7 pcs Set

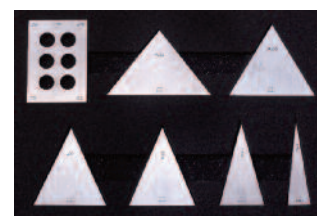
| Grade | Individual Blocks Included | Code No. |
|-------|--|----------|
| DIN/1 | 15°10', 30°20', 45°30' 50°, 60°40', 75°50', 90° | 605-06-3 |



605-06-0



605-06-2



605-06-3



Thread Pitch Gauge

605 Series

FEATURES

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

SPECIFICATIONS

Metric Screw Pitch Gauges (60°)

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

Unified Screw Pitch Gauges (60°)

| Range | No. of Leaves | Composition of Leaves | Code No. |
|------------|---------------|--|-----------------|
| 4 - 42 TPI | 30 | 4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42 TPI | 605-50-2 |
| 4 - 84 TPI | 51 | 4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30 - 84 by 2 , TPI | 605-51-2 |

Metric and Unified Screw Pitch Gauges (60°)

| Range | No. of Leaves | Composition of Leaves | Code No. |
|-------------------------|---------------|--|-----------------|
| 0.4 - 7mm 4 - 42 TPI | 51 | 605-52-0 and 605-50-2 | 605-50-8 |
| 0.5 - 6mm 4 - 56 TPI | 28 | 0.5, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6mm 4, 6, 7, 8, 10, 11, 11-1/2, 12, 13, 16, 20, 28, 32 TPI | 605-51-8 |

Whitworth Screw Pitch Gauges (55°)

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



Center Gauges

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
- Packaging: Vinyl case



Code No. 605-60-0



Radius Gauges

605 Series

FEATURES

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

SPECIFICATIONS

| Range | Qty. | Composition of Leaves | Remark | Code No. |
|----------------|----------|--|-----------|-----------------|
| 1/32" - 17/64" | 18 pairs | 1/32" - 12/64" x 1/64" step | 90° arc. | 605-40-1 |
| 1/32" - 1/4" | 15 pairs | 1/32" - 1/4" x 1/64" step | 180° arc. | 605-41-1 |
| 17/64" - 1/2" | 16 pairs | 17/64" - 1/2" x 1/64" step | 180° arc. | 605-42-1 |
| 9/32" - 33/64" | 16 pairs | 9/32" - 33/64" x 1/64" step | 90° arc. | 605-43-1 |
| 1/64" - 1/2" | 25 pairs | 1/64" - 17/64" x 1/64" step, 9/32" - 1/2" x 1/32" step | - | 605-44-1 |
| 0.5 - 13mm | 26 pairs | 0.5 - 13mm x 0.5mm step | 90° arc. | 605-41-0 |
| 1 - 7mm | 17 pairs | 1-3mm x 0.25mm step, 3.5-7mm x 0.5mm step | 180° arc. | 605-42-0 |
| 7.5 - 15mm | 16 pairs | 7.5 - 15mm x 0.5mm step | 180° arc. | 605-43-0 |
| 15.5 - 25mm | 15 pairs | 15.5 - 20mm x 0.5mm step, 21-25mm x 1mm step | 180° arc. | 605-44-0 |



Thickness Gauges

605 Series

FEATURES

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



605-31-1

SPECIFICATIONS

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



Spring Dividers and Calipers

606 Series

FEATURES

- Manufactured from hardened durable material
- Contact surfaces are rounded
- Packaging: Vinyl case



606-32-2

SPECIFICATIONS

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



606-32-4

606-32-0

Precision Levels

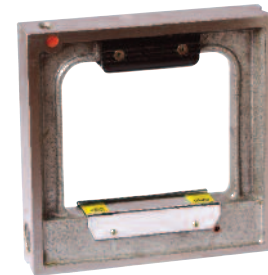
606 Series

FEATURES

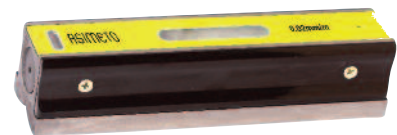
- All measuring surfaces of the square models are precision ground to facilitate readings at both horizontal and vertical planes
- Packaging: Wooden case

SPECIFICATIONS

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



606-53-0



606-51-0



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
- Packaging: Wooden case

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 |

Optical Flats and Parallels

605 Series

FEATURES

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

SPECIFICATIONS

Optical Flats

| Dimensions | Flatness | Code No. |
|------------|----------|----------|
| ∅45 x 15mm | 0.1µm | 605-51-1 |
| ∅60 x 20mm | 0.2µm | 605-51-3 |

Optical Parallels Diameter: 30mm

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



605-51-1



605-52-1

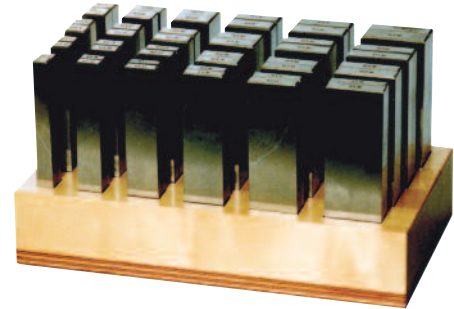


High Precision Metric Parallels

663 Series



663-02-0



663-12-0

FEATURES

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

SPECIFICATIONS

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

| Width x Height of Individual Blocks | Length | Number of Pairs | Code No. |
|---|--------|-----------------|-----------------|
| 2x5, 3x6, 4x7, 5x8, 6x9mm,2x10, 3x11, 4x12, 5x13, 6x14mm, 2x15, 3x16, 4x17, 5x18, 6x19mm,2x20, 3x21, 4x22, 5x23, 6x24mm | 100mm | 20 | 663-11-0 |
| 8x11, 10x13, 12x15, 14x17mm,8x16, 10x18, 12x20, 14x22mm,8x21, 10x23, 12x25, 14x27mm, 8x26, 10x28, 12x30, 14x32mm,8x31, 10x33, 12x35, 14x37mm,8x36, 10x38, 12x40, 14x42mm | 125mm | 24 | 663-12-0 |
| | 150mm | 24 | 663-13-0 |



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
- Packaging: Wooden box



SPECIFICATIONS

Inch

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

Metric

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



Granite Plate Stands

638 Series

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

Dial Gauge Stands

670 Series



670-01-0



670-11-0



670-22-0

FEATURES

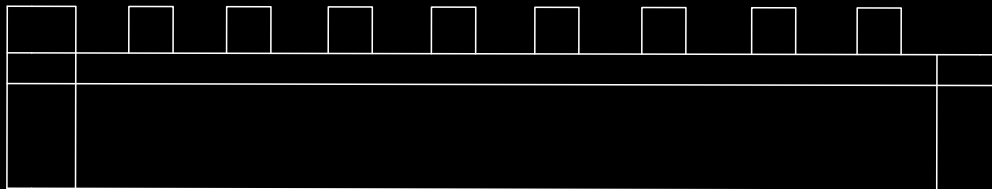
- Both column and metal stage are hardened and precision lapped
- With Ø8mm H7 clamping hole
- Packaging: Wooden box

SPECIFICATIONS

| Size | Flatness | Pillar | Verticality | Measuring range | Code No. | Code No. | |
|-----------------------|----------|-------------|-------------|-----------------|----------|--------------|---------------|
| Cast-iron Base | | | | | | | |
| Ø50mm | 0.002mm | 207 x Ø35mm | 0.03mm | 100mm | 670-01-0 | | |
| 60 x 68mm | 0.002mm | 207 x Ø35mm | 0.03mm | 100mm | 670-11-0 | | |
| 98 x 115mm | 0.005mm | 235 x Ø35mm | 0.05mm | 100mm | 670-12-0 | | |
| Granite Base | | | | | | Screw Column | Smooth Column |
| 150 x 100 x 40 | 0.002mm | 150 x Ø18mm | 0.03mm | 100mm | - | 670-21-2 | |
| 200 x 150 x 50 | 0.002mm | 300 x Ø35mm | 0.03mm | 250mm | 670-22-0 | 670-22-2 | |
| 300 x 200 x 50 | 0.002mm | 300 x Ø35mm | 0.03mm | 250mm | 670-23-0 | 670-23-2 | |

Gauge

- 115 Rectangular Gauge Block Sets
- 117 Rectangular Steel Gauge Block Sets
- 118 Inch Individual Rectangular Gauge Blocks
- 119 Metric Individual Rectangular Gauge Blocks
- 121 Gauge Block Accessories
- 122 Plug Gauges and Ring Gauges
- 123 Thread Plug Gauges and Ring Gauges
- 125 Whitworth Pipe Threads Gauges
- 125 Check Masters
- 126 Gauges Block Sets for Calipers Checking
- 126 Gauges Block Sets for Micrometers Checking
- 127 Telescoping Gauges
- 127 Bore Gauge Zero Checkers



Rectangular Gauge Block Sets

650 Series

FEATURES

- Individual serial numbers on each block, regardless of grade
- A complete certificate of calibration traceable to the N.I.S.T or P.T.B showing the deviation of each block
- Mirror polished surfaces provide superior wringing characteristics
- Packaging: Wooden case



650-63-0

SPECIFICATIONS

Inch

| Blocks Per Set | Blocks Included In Set | Grade | Former grade | Steel | Ceramic |
|----------------|---|-------|--------------|----------|----------|
| | | | | Code No. | Code No. |
| 81 (ASME) | 1 Block: 0.050" 10 Blocks: 0.1000"-0.1009" x 0.0001" step 49 Blocks: 0.101"-0.149" x 0.001" step 17 Blocks: 0.150"-0.950" x 0.050" step 4 Blocks: 1.000"-4.000" x 1.000" step | 0 | 2 | 650-01-0 | 650-51-0 |
| | | AS-1 | 3 | 650-01-1 | 650-51-1 |
| | | AS-2 | B | 650-01-2 | 650-51-2 |
| 36 (ASME) | 1 Block: 0.050" 10 Blocks: 0.1000"-0.1009" x 0.0001" step 9 Blocks: 0.101"-0.109" x 0.001" step 9 Blocks: 0.110"-0.190" x 0.010" step 4 Blocks: 0.200"-0.500" x 0.100" step 3 Blocks: 1", 2", 4" | 0 | 2 | 650-02-0 | 650-52-0 |
| | | AS-1 | 3 | 650-02-1 | 650-52-1 |
| | | AS-2 | B | 650-02-2 | 650-52-2 |

Metric

1 mm base set

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

Rectangular Gauge Block Sets

650 Series

Metric 1 mm base set

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

Metric 0.001 mm base set

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

Rectangular Steel Gauge Block Sets

650 Series

Metric 2 mm base Set

| Blocks Per Set | Blocks Included In Set | Grade | ASME / DIN / JIS / GB | ASME |
|----------------|--|-------|-----------------------|----------|
| | | | Code No. | Code No. |
| 112 | 1 Block: 2.0005mm 9 Block: 2.001- 2.009mm x 0.001mm step 49 Block: 2.01- 2.49mm x 0.01mm step 49 Block: 0.5 - 24.5mm x 0.5mm step 4 Block: 25 - 100mm x 25mm step | 0 | 650-29-0 | 650-79-0 |
| | | 1 | 650-29-1 | 650-79-1 |
| | | 2 | 650-29-2 | 650-79-2 |
| 88 | 1 Block: 1.0005mm 9 Block: 2.001- 2.009mm x 0.001mm step 49 Block: 2.01- 2.49mm x 0.01mm step 19 Block: 0.5 - 9.5mm x 0.5mm step 10 Block: 10 - 100mm x 10mm step | 0 | 650-30-0 | 650-80-0 |
| | | 1 | 650-30-1 | 650-80-1 |
| | | 2 | 650-30-2 | 650-80-2 |
| 88 | 1 Block: 2.0005mm 9 Block: 2.001- 2.009mm x 0.001mm step 49 Block: 2.01- 2.49mm x 0.01mm step 19 Block: 0.5 - 9.5mm x 0.5mm step 10 Block: 10 - 100mm x 10mm step | 0 | 650-31-0 | 650-81-0 |
| | | 1 | 650-31-1 | 650-81-1 |
| | | 2 | 650-31-2 | 650-81-2 |
| 47 | 1 Block: 2.0005mm 9 Block: 2.001- 2.009mm x 0.001mm step 9 Block: 2.01- 2.09mm x 0.01mm step 9 Block: 2.1- 2.9mm x 0.1mm step 9 Block: 1- 9mm x 1mm step 10 Block: 10 - 100mm x 10mm step | 0 | 650-32-0 | 650-82-0 |
| | | 1 | 650-32-1 | 650-82-1 |
| | | 2 | 650-32-2 | 650-82-2 |
| 46 | 9 Block: 2.001- 2.009mm x 0.001mm step 9 Block: 2.01- 2.09mm x 0.01mm step 9 Block: 2.1- 2.9mm x 0.1mm step 9 Block: 1- 9mm x 1mm step 10 Block: 10 - 100mm x 10mm step | 0 | 650-33-0 | 650-83-0 |
| | | 1 | 650-33-1 | 650-83-1 |
| | | 2 | 650-33-2 | 650-83-2 |
| 33 | 1 Block: 2.005 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 |

Rectangular Tungsten Steel Gauge Block Sets

650- Series

| Blocks Per Set | Blocks Included In Set | Grade | Code No. |
|-------------------------------|---|-------|----------|
| 87 (ASME / DIN / JIS / G) | 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 |
| | | 0 | 650-92-0 |
| 103 (ASME / DIN / JIS / G) | 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 | 1 | 650-92-1 |
| | | 0 | 650-97-0 |
| 112 (ASME / DIN / JIS / G) | 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 | 1 | 650-97-1 |
| | | 0 | 650-97-0 |

Inch Individual Rectangular Gauge Blocks

65X Series

FEATURES

- ASME / DIN / JIS / GB Standard
- Material: Steel
- Available in ASME Grade 0 and Grade AS-1
- Packaging: Plastic case



651-87-0

SPECIFICATIONS

| | Steel | Ceramic |
|----------|----------|----------|
| Size | Code No. | Code No. |
| 0.05" | 651-01-0 | 655-01-0 |
| 0.05005" | 651-02-0 | 655-02-0 |
| 0.0503" | 651-03-0 | 655-03-0 |
| 0.0506" | 651-04-0 | 655-04-0 |
| 0.0507" | 651-05-0 | 655-05-0 |
| 0.0508" | 651-06-0 | 655-06-0 |
| 0.0509" | 651-07-0 | 655-07-0 |
| 0.052" | 651-08-0 | 655-08-0 |
| 0.053" | 651-09-0 | 655-09-0 |
| 0.054" | 651-10-0 | 655-10-0 |
| 0.055" | 651-11-0 | 655-11-0 |
| 0.056" | 651-12-0 | 655-12-0 |
| 0.058" | 651-13-0 | 655-13-0 |
| 0.06" | 651-14-0 | 655-04-0 |
| 0.1" | 651-15-0 | 655-15-0 |
| 0.10005" | 651-16-0 | 655-16-0 |
| 0.1001" | 651-17-0 | 655-17-0 |
| 0.1002" | 651-18-0 | 655-18-0 |
| 0.1003" | 651-19-0 | 655-19-0 |
| 0.1004" | 651-20-0 | 655-20-0 |
| 0.1005" | 651-21-0 | 655-21-0 |
| 0.1006" | 651-22-0 | 655-22-0 |
| 0.1007" | 651-23-0 | 655-23-0 |
| 0.1008" | 651-24-0 | 655-24-0 |
| 0.1009" | 651-25-0 | 655-25-0 |
| 0.101" | 651-26-0 | 655-26-0 |
| 0.102" | 651-27-0 | 655-27-0 |
| 0.103" | 651-28-0 | 655-28-0 |
| 0.104" | 651-29-0 | 655-29-0 |
| 0.105" | 651-30-0 | 655-30-0 |
| 0.106" | 651-31-0 | 655-31-0 |
| 0.107" | 651-32-0 | 655-32-0 |
| 0.108" | 651-33-0 | 655-33-0 |
| 0.109" | 651-34-0 | 655-34-0 |
| 0.11" | 651-35-0 | 655-35-0 |
| 0.111" | 651-36-0 | 655-36-0 |

| | Steel | Ceramic |
|--------|----------|----------|
| Size | Code No. | Code No. |
| 0.112" | 651-37-0 | 655-37-0 |
| 0.113" | 651-38-0 | 655-38-0 |
| 0.114" | 651-39-0 | 655-39-0 |
| 0.115" | 651-40-0 | 655-40-0 |
| 0.116" | 651-41-0 | 655-41-0 |
| 0.117" | 651-42-0 | 655-42-0 |
| 0.118" | 651-43-0 | 655-43-0 |
| 0.119" | 651-44-0 | 655-44-0 |
| 0.12" | 651-45-0 | 655-45-0 |
| 0.121" | 651-46-0 | 655-46-0 |
| 0.122" | 651-47-0 | 655-47-0 |
| 0.123" | 651-48-0 | 655-48-0 |
| 0.124" | 651-49-0 | 655-49-0 |
| 0.125" | 651-50-0 | 655-50-0 |
| 0.126" | 651-51-0 | 655-51-0 |
| 0.127" | 651-52-0 | 655-52-0 |
| 0.128" | 651-53-0 | 655-53-0 |
| 0.129" | 651-54-0 | 655-54-0 |
| 0.13" | 651-55-0 | 655-55-0 |
| 0.131" | 651-56-0 | 655-56-0 |
| 0.132" | 651-57-0 | 655-57-0 |
| 0.133" | 651-58-0 | 655-58-0 |
| 0.134" | 651-59-0 | 655-59-0 |
| 0.135" | 651-60-0 | 655-60-0 |
| 0.136" | 651-61-0 | 655-61-0 |
| 0.137" | 651-62-0 | 655-62-0 |
| 0.138" | 651-63-0 | 655-63-0 |
| 0.139" | 651-64-0 | 655-64-0 |
| 0.14" | 651-65-0 | 655-65-0 |
| 0.141" | 651-66-0 | 655-66-0 |
| 0.142" | 651-67-0 | 655-67-0 |
| 0.143" | 651-68-0 | 655-68-0 |
| 0.144" | 651-69-0 | 655-69-0 |
| 0.145" | 651-70-0 | 655-70-0 |
| 0.146" | 651-71-0 | 655-71-0 |
| 0.147" | 651-72-0 | 655-72-0 |

| | Steel | Ceramic |
|--------|----------|----------|
| Size | Code No. | Code No. |
| 0.148" | 651-73-0 | 655-73-0 |
| 0.149" | 651-74-0 | 655-74-0 |
| 0.15" | 651-75-0 | 655-75-0 |
| 0.16" | 651-76-0 | 655-76-0 |
| 0.17" | 651-77-0 | 655-77-0 |
| 0.18" | 651-78-0 | 655-78-0 |
| 0.19" | 651-79-0 | 655-79-0 |
| 0.2" | 651-80-0 | 655-80-0 |
| 0.21" | 651-81-0 | 655-81-0 |
| 0.25" | 651-82-0 | 655-82-0 |
| 0.3" | 651-83-0 | 655-83-0 |
| 0.35" | 651-84-0 | 655-84-0 |
| 0.4" | 651-85-0 | 655-85-0 |
| 0.45" | 651-86-0 | 655-86-0 |
| 0.5" | 651-87-0 | 655-87-0 |
| 0.55" | 651-88-0 | 655-88-0 |
| 0.6" | 651-89-0 | 655-89-0 |
| 0.65" | 651-90-0 | 655-90-0 |
| 0.7" | 651-91-0 | 655-91-0 |
| 0.75" | 651-92-0 | 655-92-0 |
| 0.8" | 651-93-0 | 655-93-0 |
| 0.85" | 651-94-0 | 655-94-0 |
| 0.9" | 651-95-0 | 655-95-0 |
| 0.95" | 651-96-0 | 655-96-0 |
| 1" | 651-97-0 | 655-97-0 |
| 2" | 651-98-0 | 655-98-0 |
| 3" | 651-99-0 | 655-99-0 |
| 4" | 652-00-0 | 656-00-0 |
| 5" | 652-01-0 | 656-01-0 |
| 6" | 652-02-0 | - |
| 7" | 652-03-0 | - |
| 8" | 652-04-0 | - |
| 10" | 652-05-0 | - |
| 12" | 652-06-0 | - |
| 16" | 652-07-0 | - |
| 20" | 652-08-0 | - |

Metric Individual Rectangular Gauge Blocks

653 / 654 Series

FEATURES

- ASME / DIN / JIS / GB Standard
- Steel Grade 0 and Grade 1
- Packaging: Plastic case

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 O
- Packaging: Plastic case

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 |
| | |
| | |

Gauge Block Accessories

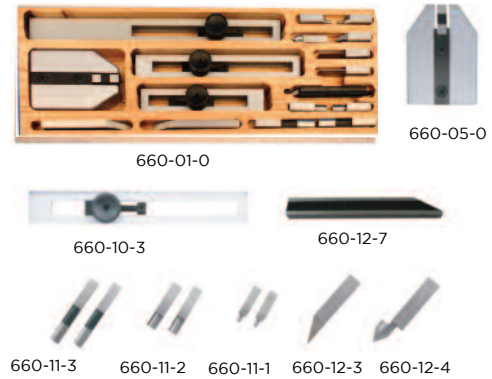
660 Series

FEATURES

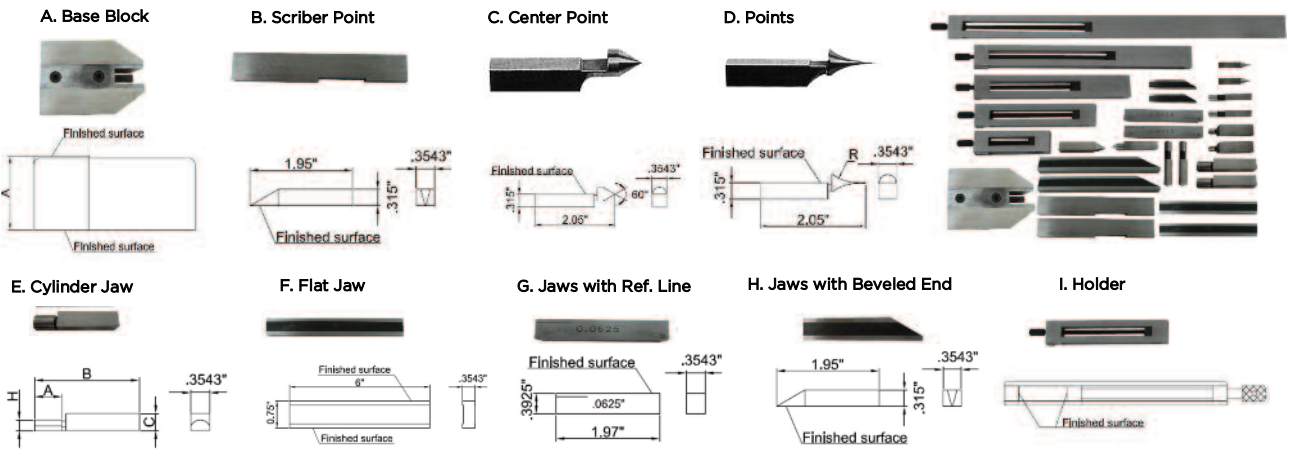
- The gauge block accessory set is used to firmly connect rectangular gauge blocks with the gauge holding devices. A series of universal precision measuring surfaces and base are provided to increase the measurement flexibility
- Plastic: Aluminum case for Inch set; Wooden case for Metric set

SPECIFICATIONS

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



| Inch | | | 14 pcs Set Code No. | 27 pcs Set Code No. | | |
|------|-----------------------|--------------------------------|------------------------|---------------------|--------------------|-----------------|
| # | Description/Use | Dimension | Accuracy | Individuals in Set | Individuals in Set | Code No. |
| A | Base Block | 4 x 2-3/4 x 1.7" | Height: ±.0002" | 1 pcs | - | 660-05-5 |
| B | Scriber Point | 1.950" Length | Flatness: ±.00002"/2" | 1 pcs | - | 660-13-1 |
| C | Center Point | 2.05" Length | Concentricity: ±.0004" | 1 pcs | - | 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 pair | 660-15-1 |
| | | 4.000" Capacity, 6.5" Length | accurately ground | 1 pcs | - | 660-15-2 |
| | | 6.000" Capacity, 8.5" Length | and lapped | 1 pcs | 1 pair | 660-15-3 |
| | | 10.000" Capacity, 12" Length | | 1 pcs | - | 660-15-4 |



Plug Gauges and Ring Gauges

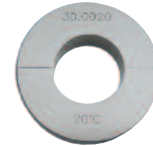
670 / 675 Series

FEATURES

- Hardened steel
- Plug Gauges Accuracy according to DIN 7162/7164
- Plug Gauges Sizes according to DIN 2245
- Ring Gauges Accuracy according to DIN 2250
- Packaging: PP plastic box



670-24-7



675-30-0

SPECIFICATIONS

Plug Gauges

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

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

Ring Gauge

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

| Size | Code No. |
|------|----------|
| 11mm | 675-11-0 |
| 12mm | 675-12-0 |
| 13mm | 675-13-0 |
| 14mm | 675-14-0 |
| 15mm | 675-15-0 |
| 16mm | 675-16-0 |
| 17mm | 675-17-0 |
| 18mm | 675-18-0 |
| 19mm | 675-19-0 |
| 20mm | 675-20-0 |
| 21mm | 675-21-0 |
| 22mm | 675-22-0 |
| 23mm | 675-23-0 |
| 24mm | 675-24-0 |

| Size | Code No. |
|------|----------|
| 25mm | 675-25-0 |
| 26mm | 675-26-0 |
| 27mm | 675-27-0 |
| 28mm | 675-28-0 |
| 30mm | 675-30-0 |
| 32mm | 675-32-0 |
| 33mm | 675-33-0 |
| 34mm | 675-34-0 |
| 35mm | 675-35-0 |
| 36mm | 675-36-0 |
| 37mm | 675-37-0 |
| 38mm | 675-38-0 |
| 40mm | 675-40-0 |
| 42mm | 675-42-0 |

| Size | Code No. |
|------|----------|
| 44mm | 675-44-0 |
| 45mm | 675-45-0 |
| 46mm | 675-46-0 |
| 47mm | 675-47-0 |
| 48mm | 675-48-0 |
| 50mm | 675-50-0 |
| 52mm | 675-52-0 |
| 55mm | 675-55-0 |
| 58mm | 675-58-0 |
| 60mm | 675-60-0 |
| 62mm | 675-62-0 |
| 65mm | 675-65-0 |
| 68mm | 675-68-0 |
| 70mm | 675-70-0 |

| Size | Code No. |
|-------|----------|
| 72mm | 675-72-0 |
| 75mm | 675-75-0 |
| 80mm | 675-80-0 |
| 82mm | 675-82-0 |
| 85mm | 675-85-0 |
| 88mm | 675-88-0 |
| 90mm | 675-90-0 |
| 92mm | 675-92-0 |
| 95mm | 675-95-0 |
| 98mm | 675-98-0 |
| 100mm | 676-00-0 |

Thread Plug Gauges and Ring Gauges

68X Series

FEATURES

- ISO-Metric Thread
- Per DIN 13
- Packaging: PP plastic box



682-14-5



685-14-5



686-14-5

SPECIFICATIONS

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

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

Thread Plug Gauges and Ring Gauges

68X Series

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

Whitworth Pipe Thread Gauges

690 Series

- Right hand, DIN ISO 228

SPECIFICATIONS

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

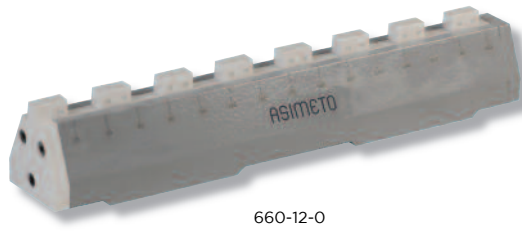
| | Plug Gauge | Ring Gauge "GO" | Ring Gauge "NO GO" |
|--------|------------|-----------------|--------------------|
| Size | Code No. | Code No. | Code No. |
| G1-1/8 | 690-10-1 | 690-10-3 | 690-10-4 |
| G1-1/4 | 690-11-1 | 690-11-3 | 690-11-4 |
| G1-1/2 | 690-12-1 | 690-12-3 | 690-12-4 |
| G1-3/4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

Check Masters

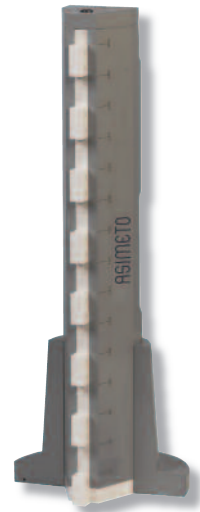
660 / 661 Series

FEATURES

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



660-12-0



661-12-0

SPECIFICATIONS

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

Customized pitch for special purpose is available also

Gauges Block Sets for Calipers Checking

659 Series

FEATURES

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



659-31-1

SPECIFICATIONS

For DIN Standard

| Blocks in Set | Grade | Code No. |
|---|---------|----------|
| 30.0mm, 41.3mm, 131.4mm, Φ 4.0mm, Φ 25.0mm | 0-150mm | 1 |
| 41.3mm, 131.4mm, 243.5mm, Φ 4.0mm, Φ 25.0mm | 0-300mm | 0 |

For GB Standard

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

Gauges Block Set for Micrometers Checking

659 Series

FEATURES

- DIN / GB Standard
- Steel or Ceramic, Grade 1
- Packaging: Wooden case



659-71-1

SPECIFICATIONS

For DIN Standard

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

For GB Standard

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

Telescoping Gauges

487 Series

FEATURES

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



487-86-9

SPECIFICATIONS

| Model | Inch | Metric | Depth | Code No. |
|-------|----------------|-----------|----------|----------|
| | Range | Range | | |
| A | 5/16"-1/2" | 8-12.7mm | 4"/102mm | 487-01-1 |
| B | 1/2"-3/4" | 12.7-19mm | 4"/102mm | 487-02-1 |
| C | 3/4"-1.25" | 19-32mm | 4"/102mm | 487-03-1 |
| D | 1-1/2"-2-1/8" | 32-54mm | 5"/127mm | 487-04-1 |
| E | 2-1/8"-3-9/16" | 54-90mm | 5"/127mm | 487-05-1 |
| F | 3-9/16"-6" | 90-150mm | 5"/127mm | 487-06-1 |

Sets

| Pieces in set | Including models | Inch | Metric | Code No. |
|---------------|------------------|--------------|------------|----------|
| | | Range | Range | |
| 6 pcs | A, B, C, D, E, F | 5/16"-6" | 8-150mm | 487-86-9 |
| 5 pcs | B, C, D, E, F | 1/2"-6" | 12.7-150mm | 487-85-9 |
| 4 pcs | A, B, C, D | 5/16"-2-1/8" | 8-54mm | 487-84-9 |

Bore Gauge Zero Checker

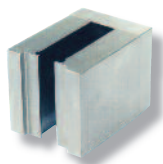
483 Series

FEATURES

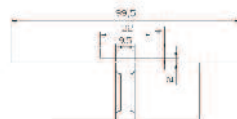
- The Bore Gauge Zero Checker allows easy zero adjustment of dial bore gauges with ranges of 18mm (.7") through 400mm (16") using gauge blocks
- High Accuracy and stable performance
- Interchangeable Supporting Blocks is for zero setting for various bore gages

SPECIFICATIONS

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



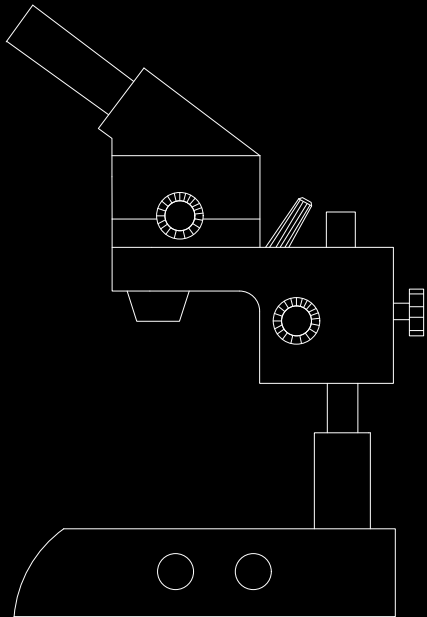
483-50-0

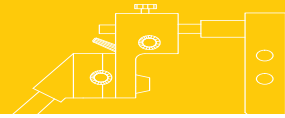


483-00-2

Testers & Optical Equipment

| | |
|-----|------------------------------------|
| 129 | Surface Roughness Standards |
| 129 | Digital Coating Thickness Gauges |
| 130 | Rockwell Type Hardness Testers |
| 130 | Shore Scale A Durometer |
| 131 | Brinell Hardness Tester |
| 132 | Impact Hardness Tester |
| 132 | Hardness Test Block |
| 132 | Hardness Tester Penetrator |
| 133 | Workshop Measuring Microscope WMS |
| 134 | Workshop Measuring Microscope QZW1 |
| 135 | Vertical Profile Projectors |
| 136 | 12" Optical Comparator |
| 137 | Microscope |





Surface Roughness Standards

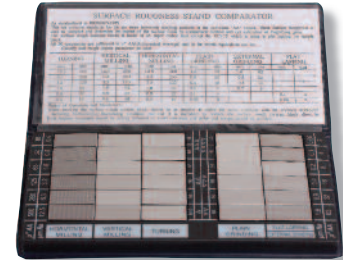
506 Series

FEATURES

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

SPECIFICATIONS

| Code No. | | 506-01-0 |
|----------|--------------------|--|
| Qty. | Contents | Roughness |
| 2 pcs | Flat Lapping | 0.05; 0.1 μ m (2; 4 μ "") |
| 4 pcs | Reaming | 0.2; 0.4; 0.8; 1.6 μ m (8; 16; 32; 63 μ "") |
| 6 pcs | Grinding | 0.05; 0.1; 0.2; 0.4; 0.8; 1.6 μ m (2; 4; 8; 16; 32; 63 μ "") |
| 6 pcs | Horizontal Milling | 0.4; 0.8; 1.6; 3.2; 6.3; 12.5 μ m (16; 32; 63; 125; 250; 500 μ "") |
| 6 pcs | Vertical Milling | 0.4; 0.8; 1.6; 3.2; 6.3; 12.5 μ m (16; 32; 63; 125; 250; 500 μ "") |
| 6 pcs | Turning | 0.4; 0.8; 1.6; 3.2; 6.3; 12.5 μ m (16; 32; 63; 125; 250; 500 μ "") |



Digital Coating Thickness Gauges

506 Series

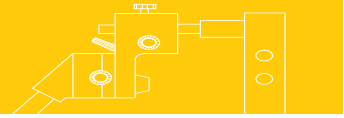
FEATURES

- Adopting magnetic induction and eddy current thickness measuring methods
- 3 measuring modes: direct mode, group mode (APPL1-APPL5) and continuous mode
- Data saving: 495 measuring results can be saved
- Testing data could be transmitted to PC
- Data deleting and Error hint
- Conforms to the ISO standards

SPECIFICATIONS

| Code No. | | 506-10-0 |
|------------------------|--|---|
| Range | | 0-10000 μ m |
| Resolution | | 0.1 μ m |
| 6 probes are available | | F400, F1, F1/90°, F10, CNO2, & N1 |
| 5 statistic data | | Mean value (MEAN), Maximum (MAX) and Minimum (MIN) value, Number of measurements (NO.), and Standard deviation (S. DEV) |
| Power Supply | | DC 4.8V (rechargeable battery of 1.2V x 4pcs) |
| Dimension | | 270 x 80 x 45mm |
| Weight | | Approx. 510g |





Rockwell Type Hardness Testers

640 Series

FEATURES

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

STANDARD ACCESSORIES

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



640-01-0



640-02-0

SPECIFICATIONS

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

Shore Scale A Durometer

640 Series

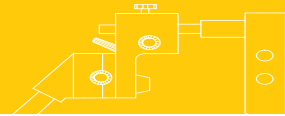
FEATURES

- Used for precisely determining the Shore hardness value of rubber plastic materials
- Packaging: Plastic case

SPECIFICATIONS

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





Brinell Hardness Testers

640 Series

FEATURES

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

STANDARD ACCESSORIES

- | | |
|---|------------|
| 1, Tungsten carbide ball penetrator Ø2.5mm, Ø5mm, Ø10mm | 1 pcs each |
| 2, V-notch anvil | 1 pcs |
| 3, Small flat anvil | 1 pcs |
| 4, Large flat anvil | 1 pcs |
| 5, Brinell standardized block | 2 pcs |
| 6, 20X readout microscope | 1 pcs |
| 7, Instruction manual | 1 pcs |
| 8, Packaging: Wooden box | |



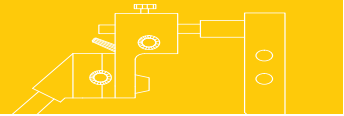
640-10-1



640-10-5

SPECIFICATIONS

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



Impact Hardness Tester

FEATURES

- Used for determining the hardness of ferrous and non-ferrous metals
- The hardness is displayed in a "L" value that can be converted into Brinell, Rockwell, Vickers and Shore Hardness
- The unit is portable and can easily measure large work pieces
- The surface must be prepared to remove the de-carburization layer and me of a smooth finish otherwise the reading will be erroneous

STANDARD ACCESSORIES

- Small positioning adaptor 1 pcs
- Coupling Liquid 1 bottle
- Calibration test block 1 pcs
- Charger 1 pcs

SPECIFICATIONS

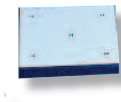
| Code No. | 640-15-1 | 640-15-2 | 640-15-3 | 640-15-4 |
|--------------------------|---|--|--|---|
| | Models# D | Models# DC | Modesls# D+15 | Models# G |
| Range | 330-890HL | 330-890HL | 346-890HL | 330-890HL |
| Impace Capacity | 11 Nmm | 11 Nmm | 11 Nmm | 90 Nmm |
| Dimensions | Ø20 x 150mm | Ø20 x 85mm | Ø20 x 165mm | Ø20 x 250mm |
| Testing direction | Arbitrary | Arbitrary | Arbitrary | Arbitrary |
| Working | 1-40°C | 1-40°C | 1-40°C | 1-40°C |
| Power | DC 6.0V | DC 6.0V | DC 6.0V | DC 6.0V |
| Weight | 75g | 50g | 80g | 250g |
| Mass of impact body | 5.5g | 5.5g | 5.5g | 20g |
| Diameter of carbide ball | 3mm | 3mm | 3mm | 5mm |
| Application Range | Basic, suitable for Most of hardness tester | Suitable for hardness measuring of inner holes and small balls | Suitable for hardness measuring of gear face, column inner surface and concave surface | Suitable for hardness measuring of steel, cast steel, grey cast iron, nodular cast iron & non-ferrous metal |



Hardness Test Block

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 Penetrator

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 |





Workshop Measuring Microscope WMS

FEATURES

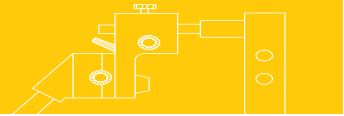
- High quality optics for light intensive and sharp three dimensional images
- Focusing with an ergonomic hand wheel, can be mounted either side, ideal for either a left or right handed operator
- Zoom lens with continuous variable magnification and/or fixed lens
- Prism head can be tilted to 45° with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



642-05-0

SPECIFICATIONS

| Code No. | 642-05-0 |
|-----------------------------|---|
| Measuring range X/Y | 50 / 50 mm |
| Measuring table dimensions | 150 x 150 mm |
| Max. table load | 15 kg |
| Measuring system | Micrometer Head |
| - Readings | 0.001 mm |
| - Error limit | 8 µm |
| - Repeatability | 2 µm |
| Magnification Variable zoom | 8 - 40X |
| Field of view | 23 - 4 mm |
| Working distance | 70 mm |
| Max. height of test piece | 190 mm |
| Illumination | LED Incident and transmitted light, individually adjustable |
| Interfaces | USB / Opto RS232 |
| Dimensions H x B x T | 535 x 410 x 470 mm |



Workshop Measuring Microscope QZW1

FEATURES

- QZW1 with QC 300 and CCD color camera
- Zoom lens, magnification 0.7X - 4.5X
- MPE1 = 3 + (L/100) μm

Measuring table

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

Illumination

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

Further measuring ranges

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

Options

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

Characteristics of the QC 300:

- Intuitive operation per Touch-screen
- Automatic edge detection
- Storage and processing images
- Printing images via a USB printer
- Protocol can be printed
- Measurement and evaluation functions (intersecting straight lines, line of best fit, index circle, etc.)
- Simply create a measuring program with the Teach-In mode
- Trouble free program sequence due to on screen graphic guidance
- Tolerance assessment



642-06-0



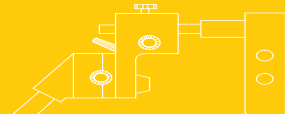
QC300

STANDARD ACCESSORIES

- QZW1 with measuring range 200 mm x 100 mm
- Operating and display unit QC 300 with automatic edge detection
- Zoom lens with magnification 0.7X - 4.5X (25X -160X on the display unit)
- Calibration standard incl. calibration certificate
- Data connection cable RS232

SPECIFICATIONS

| Code No. | 642-06-0 |
|----------------------------|--------------|
| Measuring table dimensions | 200 x 100 mm |
| Measuring system | QC300 |



Vertical Profile Projectors

FEATURES

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

STANDARD ACCESSORIES

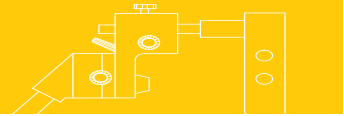
| | |
|--|-------|
| 1, Main body | 1 pcs |
| 2, Lens | 1 pcs |
| 3, Corresponding semi-Reflective (Equipped With the Lens) | 1 pcs |
| 4, Spring Fixture of screen | 4 pcs |
| 5, 2m Power wire | 1 pcs |
| 6, Instruction manual | 1 pcs |
| 7, Certification | 1 pcs |
| 8, Packaging list | 1 pcs |
| 9,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



641-01-0

SPECIFICATIONS

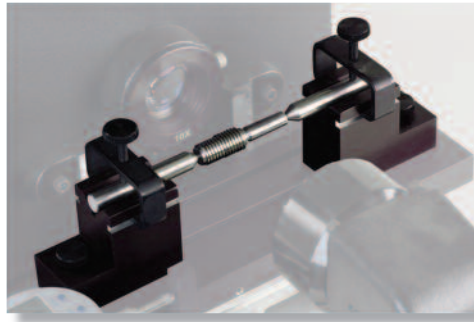
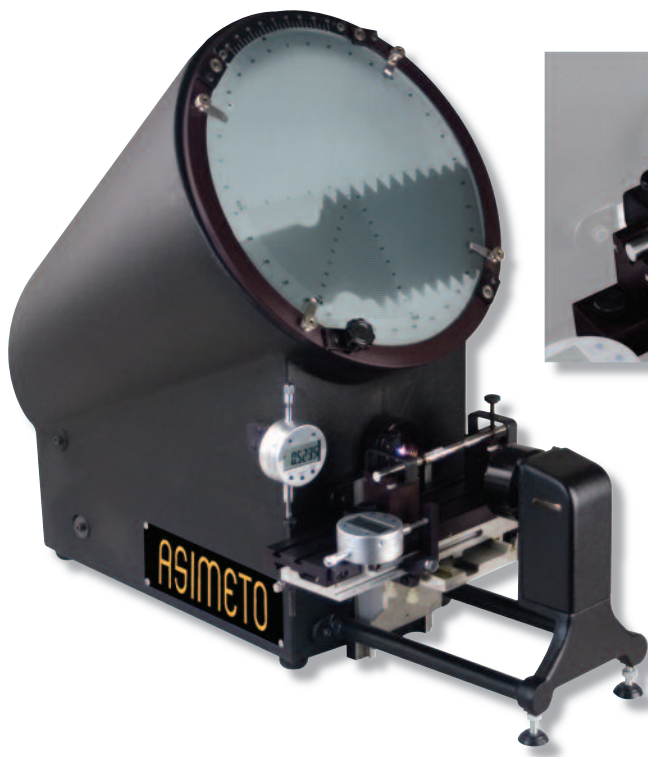
| Code No. | 641-01-0 / 641-01-1 | | | 641-02-0 / 641-02-1 | | | |
|----------------------------|--|---|--------------|---------------------------|---|--------------|--------------|
| Imaging direction | Direct / Indirect Image | | | Direct / Indirect Image | | | |
| Working Table | Stage Size (mm) | 340 x 152 | | | 404 x 228 | | |
| | Glass Table Size (mm) | 196 x 96 | | | 260 x 160 | | |
| | X-Axis Travel (mm) | 150 | | | 200 | | |
| | Y-Axis Travel (mm) | 50 | | | 100 | | |
| | Z-Axis Travel (mm) | 90 (for focusing) | | | 90 (for focusing) | | |
| | Measuring Accuracy | 4.0+L/25 Qm L: Measuring Length (mm) | | | 4.0+L/25 Qm L: Measuring Length (mm) | | |
| Projector Screen | Resolution (X/Y-axis) | 0.001 mm (1µm) or 0.0005 mm (0.5µm) | | | 0.001 mm (1Qm) or 0.0005 mm (0.5µm) | | |
| | Dimension | 12" (Ø312 mm), usable range > Ø300 mm | | | 12" (Ø312 mm), usable range > Ø300 mm | | |
| | Rotary Range | 0°-360° | | | 0°-360° | | |
| Objective Lens | Angle Resolution | 1' or 0.01° | | | 1' or 0.01° | | |
| | Magnification | 10X (Standard) | 20X (Option) | 50X (Option) | 10X (Standard) | 20X (Option) | 50X (Option) |
| | Object View (mm) | Ø30 | Ø15 | Ø6 | Ø30 | Ø15 | Ø6 |
| | Working Distance (mm) | 77.7 | 44.3 | 38.4 | 77.7 | 44.3 | 38.4 |
| Data Processing System | DC-3000 multi-function data processing system: Coordinate skew, mm/inch conversion, ABS/INC conversion, Zero setting, calculation, 0°, 90°, 270°, 360° conversion, linear compensation | | | | | | |
| Illumination | Transmission and reflection light source: 24V/150W-halogen lamp | | | | | | |
| Power | 110V/220V(AC), 50/60Hz, 400W total power | | | | | | |
| Light Source Cooling | Forced air cooling | | | | | | |
| Instruments dimension (mm) | 770 x 550 x 1100 | | | 770 x 550 x 1100 | | | |
| Weight (kgs) | 130 | | | 160 | | | |
| Option | Rotary Table | | | Code No.: 641-05-0 | | | |
| | Swivel Center Support | | | Code No.: 641-05-1 | | | |
| | Edge Detector | | | Code No.: 641-05-2 | | | |



12" Optical Comparators

FEATURES

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



641-09-9

SPECIFICATIONS

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



Microscope XC-100L



642-01-0

FEATURES

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

STANDARD ACCESSORIES

- Eyepiece, Lamp, Instruction manual

| Code No. | 642-01-0 | 642-01-0A |
|---------------------|-----------------------------|-----------------------------|
| Graduation | 0.01mm | 0.025mm |
| Magnification | 100X | 40X |
| Field of View | 1.6mm | 4.2mm |
| Working Distance | 7mm | 18mm |
| Eyepiece | WF10X, Graduation: 0.025 mm | WF10X, Graduation: 0.025 mm |
| Objective | 10X | 4X |
| Illumination System | Pen Illumination | Pen Illumination |
| Spare Part | Description | Code No. |
| Objective | 4X | 642-10-0 |

Microscope MS-2



642-01-1

FEATURES

- Sharp stereo erect image over a wide field of view
- Rotatable objective, 45° inclined and 360° rotatable
- Packaging: Foam box plus carton box

STANDARD ACCESSORIES

- Eyepiece, Glass stage, Instruction manual

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

Stereo-Microscope ST 40



642-01-2

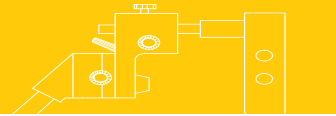
FEATURES

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

STANDARD ACCESSORIES :

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

| Code No. | 642-01-2 | 642-01-2A |
|---------------------|-------------------------|-------------------------|
| Magnification | 20X / 40X | 40X / 80X |
| Field of View | 10mm / 5mm | 6.5mm / 3.2mm |
| Working Distance | 76mm | 76mm |
| Eyepiece | WF10X | WF20X |
| Objective | 2X / 4X | 2X / 4X |
| Illumination System | 12V/10W double-lighting | 12V/10W double-lighting |



Stereo-Microscope ST 45



642-01-3

FEATURES

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

STANDARD ACCESSORIES

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

| Code No. | 642-01-3 | 642-01-3A |
|---------------------|----------------------------------|----------------------------------|
| Magnification | 20X / 40X | 40X / 80X |
| Field of View | 10mm / 5mm | 6.5mm / 3.2mm |
| Working Distance | 76mm | 76mm |
| Eyepiece | WF10X / 20mm | WF20X |
| Objective | 2X / 4X | 2X / 4X |
| Illumination System | 12V/10W Halogen and Incandescent | 12V/10W Halogen and Incandescent |

Stereo-Microscope ST 50



642-01-4

FEATURES

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

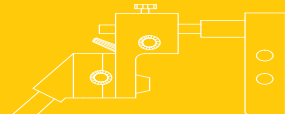
STANDARD ACCESSORIES

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

| Code No. | 642-01-4 |
|---------------------|----------------------|
| Magnification | 20X |
| Field of View | 10mm |
| Working Distance | 230mm |
| Eyepiece | WF10X / 20mm |
| Objective | 2X |
| Illumination System | 12V/10W Incandescent |

Accessory for ST 40/ST 45

| Spare Part | Description | Code No. |
|------------|-----------------------------|----------|
| Eyepiece | WF15X / 15mm | 642-10-3 |
| Eyepiece | WF20X / 10mm | 642-10-4 |
| Eyepiece | WF10X , Graduation: 0.05 mm | 642-10-5 |



Stereo-Microscope LAB 1



642-01-5

FEATURES

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

STANDARD ACCESSORIES

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

| Code No. | 642-01-5 | |
|---------------------|------------------------------------|----------|
| Magnification | 20X / 40X | |
| Field of View | 10mm / 5mm | |
| Working Distance | 99mm / 81mm | |
| Eyepiece | WF10X | |
| Objective | 2X / 4X | |
| Illumination System | 12V/10W Adjustable double-lighting | |
| Spare Part | Description | Code No. |
| Eyepiece | WF15X / 15mm | 642-10-3 |
| Eyepiece | WF20X / 10mm | 642-10-4 |
| Eyepiece | WF10X (1 pc), Graduation: 0.05 mm | 642-10-5 |

Stereo-Zoom Microscope LAB 2



642-01-6

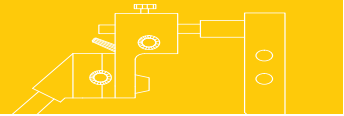
FEATURES

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

STANDARD ACCESSORIES

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

| Code No. | 642-01-6 | 642-01-6A |
|---------------------|------------------------------------|------------------------------------|
| Magnification | 10X-40X | 10X-80X |
| Field of View | 23mm - 5.5mm | 11.5mm - 3mm |
| Working Distance | 91mm | 28mm |
| Eyepiece | SWF10X | SWF10X |
| Objective | 1X-4X | 1X-4X Auxiliary objective 2X |
| Illumination System | 12V/10W Adjustable double-lighting | 12V/10W Adjustable double-lighting |
| Spare Part | Description | Code No. |
| Eyepiece | WF15X / 15mm | 642-10-3 |
| Eyepiece | WF20X / 10mm | 642-10-4 |
| Eyepiece | WF10X, Graduation: 0.05 mm | 642-10-5 |
| Auxiliary objective | 2X | 642-11-3 |



Stereo-Zoom Microscope SZM 1/2



642-02-1
SZM 1



642-02-2
SZM 2

FEATURES

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

STANDARD ACCESSORIES

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

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

Stereo-Zoom Microscope SZM 3/4



642-02-3
SZM 3



642-02-9
SZM 4

FEATURES

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

STANDARD ACCESSORIES

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

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



Accessory for SZM1, SZM2, SZM3, SZM4



642-11-5

| Spare Part | Description | Code No. |
|---------------------|----------------------------------|----------|
| Eyeiece | WF15X / 15 mm | 642-10-7 |
| Eyeiece | WF20X / 10 mm | 642-10-8 |
| Eyeiece | WF10X, Graduation: 10 mm / 0.1mm | 642-10-9 |
| Adoption Lens | 0.5X | 642-11-0 |
| Adoption Lens | 2.0X | 642-11-1 |
| CCD - Camera | 1.3 million pixels | 642-11-5 |
| Adapter (c-mount) | 1 X | 642-12-2 |
| Auxiliary objective | 2X | 642-11-2 |
| Auxiliary objective | 2X | 642-11-4 |

LED Ring Light

FEATURES

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



Back

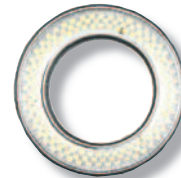


Front

642-20-2



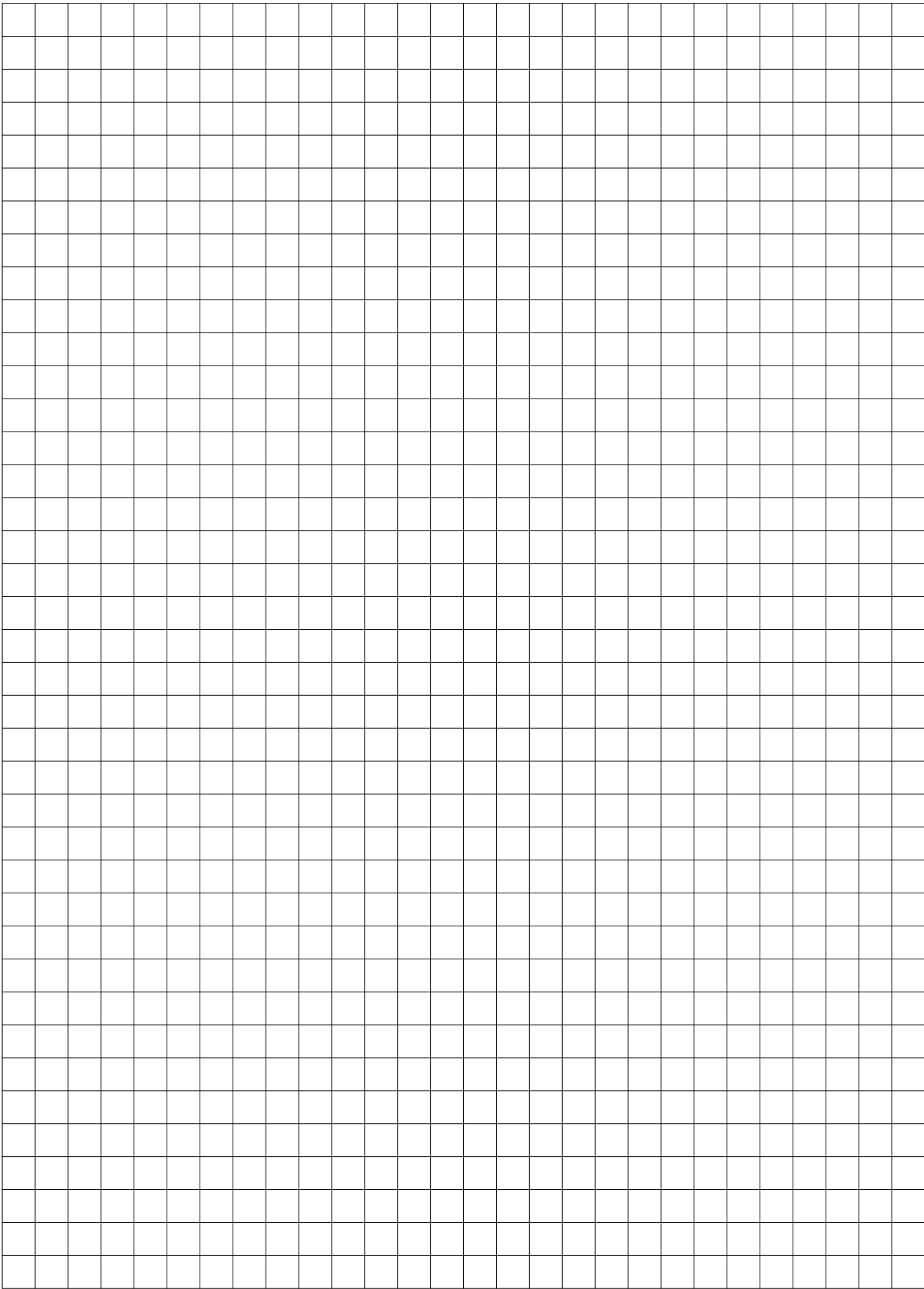
Control box

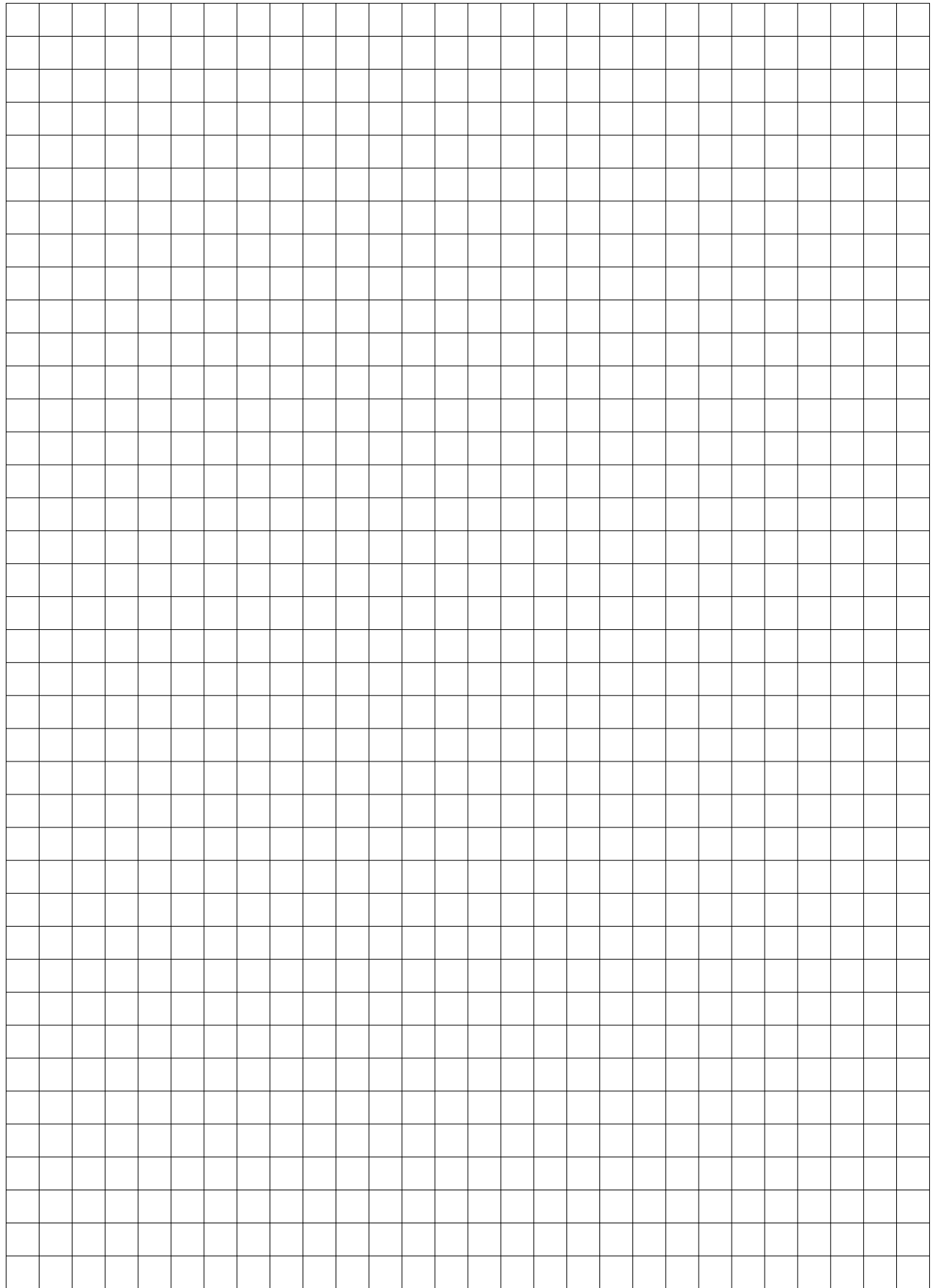


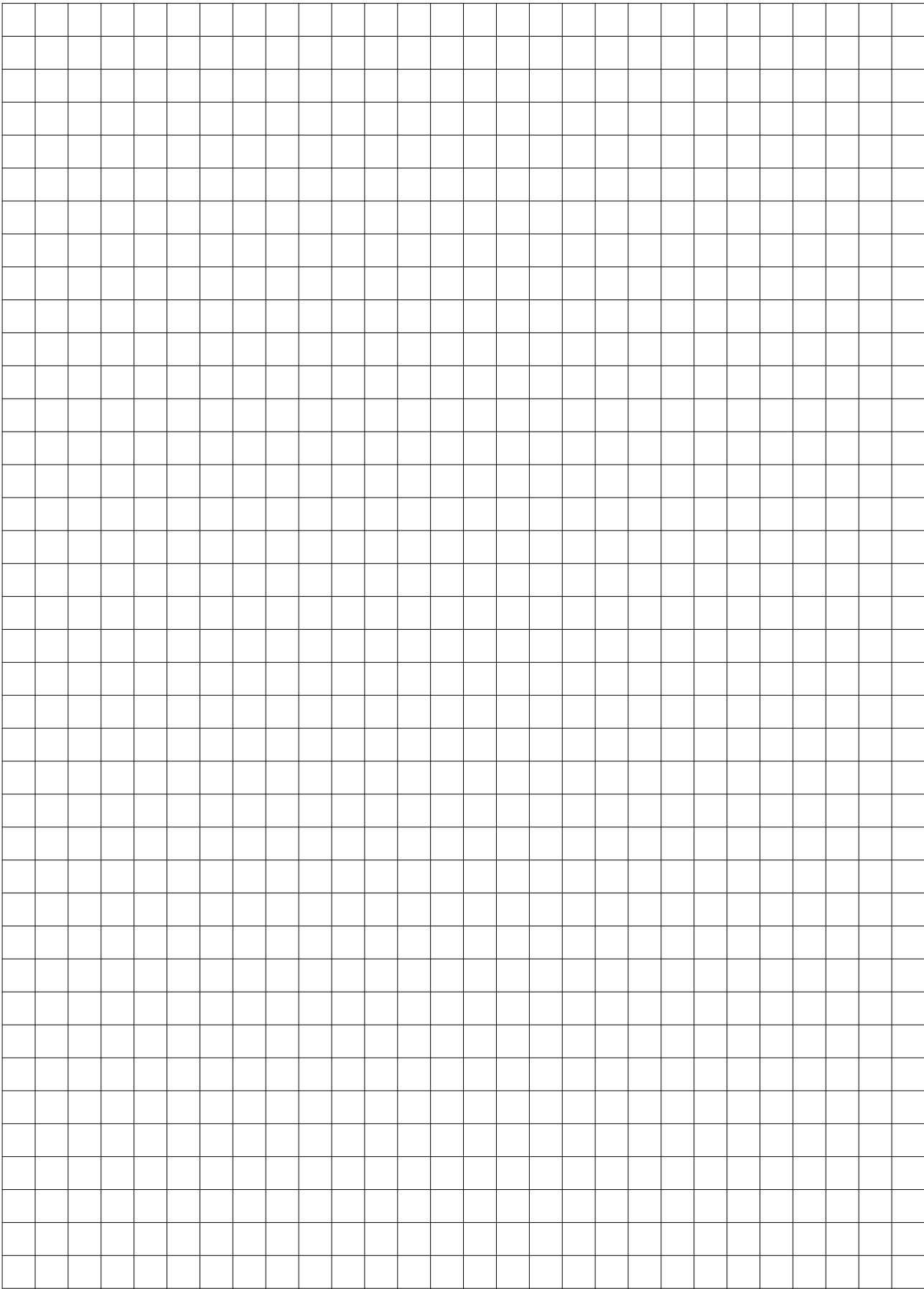
Front

642-20-1

| Dimension | Segments | Code No. |
|-----------|----------|----------|
| Ø66mm | 1 | 642-20-1 |
| Ø66mm | 4 | 642-20-2 |







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