



MiTech Metrology is an innovative company specialized in total measurement solution offering and high-performance precision tools manufacturing, mainly focus on metrology technical research, measurement instrument development and OEM, ODM, as well as wholesales business.

Our main products Include: caliper, micrometer, indicators, height gauge, magnetic base, universal digital protractor; digital level, and optical measurement machine etc.

Our target is to provide top quality products with competitive costs, finally exceed customers' expectation with our incredible service.

All our employees have rich experiences in metrology industry and global marketing service. We keep none-gap association with our factories to ensure integrated precision solution in various factors, such as: brand new design, technological innovation, quality & cost control, production & delivery optimization, after-sales service.

For years, we have bridged the gaps between customers all over the world and our factories perfectly. With our one-stop solution service, customers have got the most efficiency and workable cooperation, which finally result in time saving and cost saving.

One thing to distinguish our company from others is, we care long-term Vision more than anything else. We are capable enough to support top branded global companies, while we also have passion to help medium and just "start-up" companies to grow up step by step. We sincerely hope, with great quality and our knowledge, we can help our customers to move forward continuously and constantly.

Let's work together and reach final win-win!





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## Data Transfer System

Data  
Output

### Hub

- With RS232 data port, connect with PC, PLC etc.;
- Standard MODBUS protocol
- Can connect up to 32pcs of indicator



| Data Channel | Data Port Interface | Code No. (Main) | Code No. (Sub)  |
|--------------|---------------------|-----------------|-----------------|
| 4 ports      | RS232               | <b>5050-400</b> | <b>5010-400</b> |
| 8 ports      | RS232               | <b>5050-800</b> | <b>5010-800</b> |



| Data Channel | Data Port Interface | Code No. (Main) | Code No. (Sub)  |
|--------------|---------------------|-----------------|-----------------|
| 4 ports      | RS232               | <b>5050-410</b> | <b>5010-410</b> |
| 4 ports      | DB9 serial port     | <b>5050-420</b> | <b>5010-420</b> |

### Cable

- Connect between indicator, hub and PC for data transmission
- With RS232-RS232 or RS232-USB interface



| Data Input | Data Output | Connection Between |         | Remark                 | Code No.           |
|------------|-------------|--------------------|---------|------------------------|--------------------|
| Mini USB   | RS232       | Indicator          | Hub, PC | Data to software       | <b>DCB-05 R232</b> |
| RS232      | RS232       | Main Hub           | Sub Hub |                        | <b>DCB-06 R232</b> |
|            |             | Hub                | PC      |                        | <b>DCB-06 USB</b>  |
| RS232      | USB         | Hub                | PC      |                        | <b>DCB-05 USB</b>  |
| Mini USB   | USB         | Indicator          | PC      | Data to Excel directly | <b>DCB-05</b>      |

## Wireless

- Up to 10 meters data transmission distance;
- CR2032 battery, 4 million times of data transmission;
- Fast response, can work in complex environment.
- Transfer data to software, can collect data automatically as requested
- 1 receiver can connect with up to 6 transmitters.



## Transmitter

| Interface | Length of cable | Code No. (Sub) |
|-----------|-----------------|----------------|
| Mini USB  | 100 mm          | DWB-05T1       |
| Micro USB | 100 mm          | DWB-05T2       |



## Receiver

| Interface | Length of cable | Code No. |
|-----------|-----------------|----------|
| USB       | 10 mm           | DWB-05R  |



## Software

- User-friendly interface, show data and judgment directly;
- With function of tolerance calculation and data collection automatically



## Data Transfer Device

### Cable

Data  
Output

#### Features:

Don't need special software. Data will be sent to MS Excel directly

DCB-01 is with 5 pins square plug with button

DCB-02 is with micro-USB plug

DCB-03 with Type-C plug



**DCB-01**



**DCB-02**



**DCB-03**

### Wireless Device

#### Features:

2.4G wireless data transmission device with 8 channels

10 meters transfer distance

Don't need special software. Data will be sent to MS Excel directly

DWB-01T is with 5 pins square plug

DWB-02T is with micro-USB plug

DWB-03T is with Type-C plug

Bluetooth type data transmission devices are available (DWB-01TB, DWB-02TB)



**DWB-01T**

**DWB-01R**



**DWB-02T**

**DWB-01R**



**DWB-03T**

**DWB-01R**

## Digital Caliper

### Features

- Stainless steel material
- Metric/Inch conversion
- IP54 protection level, can be used in workshop conditions
- Fraction display is optional
- Packed in plastic box



| Range         | Resolution      | Accuracy       | with thumb wheel | without thumb wheel |
|---------------|-----------------|----------------|------------------|---------------------|
| 0-100mm/0-4"  | 0.005mm/0.0005" | 0.02mm/0.001"  | <b>11001-041</b> | <b>11001-040</b>    |
| 0-150mm/0-6"  | 0.005mm/0.0005" | 0.02mm/0.001"  | <b>11001-061</b> | <b>11001-060</b>    |
| 0-200mm/0-8"  | 0.005mm/0.0005" | 0.03mm/0.0015" | <b>11001-081</b> | <b>11001-080</b>    |
| 0-300mm/0-12" | 0.005mm/0.0005" | 0.03mm/0.0015" | <b>11001-121</b> | <b>11001-120</b>    |

## Digital Caliper

### Features

- Stainless steel material
- Metric/Inch conversion
- IP54 protection level, can be used in workshop conditions
- Packed in plastic box



| Range         | Resolution      | Accuracy       | with thumb wheel | without thumb wheel |
|---------------|-----------------|----------------|------------------|---------------------|
| 0-100mm/0-4"  | 0.005mm/0.0005" | 0.02mm/0.001"  | <b>11005-041</b> | <b>11005-040</b>    |
| 0-150mm/0-6"  | 0.005mm/0.0005" | 0.02mm/0.001"  | <b>11005-061</b> | <b>11005-060</b>    |
| 0-200mm/0-8"  | 0.005mm/0.0005" | 0.03mm/0.0015" | <b>11005-081</b> | <b>11005-080</b>    |
| 0-300mm/0-12" | 0.005mm/0.0005" | 0.03mm/0.0015" | <b>11005-121</b> | <b>11005-120</b>    |

## Big Screen Digital Caliper

### Features

- Large screen display
- Stainless steel material
- IP54 protection level, can be used in workshop conditions
- mm, inch and fraction display
- Packed in plastic box



| Range         | Resolution     | Accuracy       | with thumb wheel | without thumb wheel |
|---------------|----------------|----------------|------------------|---------------------|
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.02mm/0.001"  | <b>11007-061</b> | <b>11007-060</b>    |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>11007-081</b> | <b>11007-080</b>    |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>11007-121</b> | <b>11007-120</b>    |

## Rechargeable Digital Caliper

### Features

- Large screen display
- Stainless steel material
- IP54 protection level, can be used in workshop conditions
- Fraction display is optional
- Thumb wheel for find adjustment
- Built-in rechargeable lithium battery
- Built-in Bluetooth data transmission is optional



| Range         | Resolution     | Accuracy       | with thumb wheel | without thumb wheel |
|---------------|----------------|----------------|------------------|---------------------|
| 0-100mm/0-4"  | 0.01mm/0.0005" | 0.02mm/0.001"  | <b>11101-041</b> | <b>11101-040</b>    |
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.02mm/0.001"  | <b>11101-061</b> | <b>11101-060</b>    |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>11101-081</b> | <b>11101-080</b>    |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>11101-121</b> | <b>11101-120</b>    |

## Absolute Digital Caliper



### Features

- Stainless steel material
- Inductive measurement system
- IP65 protection level
- Absolute measurement system.  
No response speed limit
- With data output port (DCB-01 / DWB-01)



| Range         | Resolution     | Accuracy       | with thumb wheel | without thumb wheel |
|---------------|----------------|----------------|------------------|---------------------|
| 0-100mm/0-4"  | 0.01mm/0.0005" | 0.02mm/0.001"  | <b>11002-041</b> | <b>11002-040</b>    |
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.02mm/0.001"  | <b>11002-061</b> | <b>11002-060</b>    |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>11002-081</b> | <b>11002-080</b>    |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>11002-121</b> | <b>11002-120</b>    |

## IP67 Rechargeable Digital Caliper



### Features

- Stainless steel material
- Metal housing design, IP67 protection level
- Full screen electronic pointer display, color LCD, metal house
- 6 different display modes for easy reading
- Tolerance setting and GO/NG indication
- Backlight display with three kinds of brightness and six kinds of power off time
- Built-in rechargeable lithium battery
- Built-in Bluetooth data transmission is optional



| Range         | Resolution     | Accuracy       | Code No.         |
|---------------|----------------|----------------|------------------|
| 0-100mm/0-6"  | 0.01mm/0.0005" | 0.02mm/0.001"  | <b>14305-041</b> |
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.02mm/0.001"  | <b>14305-061</b> |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>14305-081</b> |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>14305-121</b> |

## IP67 Digital Caliper

IP67

### Features

- Stainless steel material
- Inductive measurement system
- IP67 protection level
- Auto power on/off
- Fraction display is optional
- Packed in plastic box



| Range         | Resolution     | Accuracy       | with thumb wheel | without thumb wheel |
|---------------|----------------|----------------|------------------|---------------------|
| 0-100mm/0-4"  | 0.01mm/0.0005" | 0.02mm/0.001"  | <b>11302-041</b> | <b>11302-040</b>    |
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.02mm/0.001"  | <b>11302-061</b> | <b>11302-060</b>    |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>11302-081</b> | <b>11302-080</b>    |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>11302-121</b> | <b>11302-1200</b>   |

## IP67 Digital Caliper

IP67

### Features

- Stainless steel material
- Inductive measurement system
- IP67 protection level, can work reliably in hard environment
- Auto power on/off
- Fraction display is optional
- Thumb wheel for fine adjustment
- Packed in plastic box



| Range         | Resolution     | Accuracy       | Code No.         |
|---------------|----------------|----------------|------------------|
| 0-100mm/0-4"  | 0.01mm/0.0005" | 0.02mm/0.001"  | <b>11801-041</b> |
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.02mm/0.001"  | <b>11801-061</b> |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>11801-081</b> |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>11801-121</b> |

## IP67 Big Screen Digital Caliper



IP67

### Features

- Stainless steel material
- Inductive measurement system
- Large screen display
- IP67 protection level
- Auto power on/off
- Fraction display is optional
- Built-in wireless transmission (optional)



| Range         | Resolution     | Accuracy       | with thumb wheel | without thumb wheel |
|---------------|----------------|----------------|------------------|---------------------|
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.02mm/0.001"  | <b>11301-061</b> | <b>11301-060</b>    |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>11301-081</b> | <b>11301-080</b>    |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>11301-121</b> | <b>11301-120</b>    |
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.02mm/0.001"  | <b>11301-063</b> | <b>11301-062</b>    |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>11301-083</b> | <b>11301-082</b>    |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>11301-123</b> | <b>11301-122</b>    |

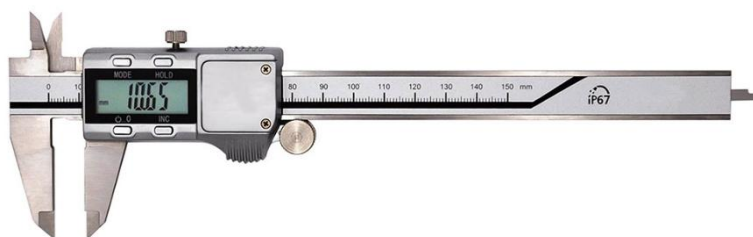
## IP67 Metal Housing Digital Caliper

Metal  
Housing

IP67

### Features

- Stainless steel material
- Metal Housing design
- IP67 protection level, can work reliably in hard environment
- Absolute/INC function, no need to set zero often
- Data hold function for easy reading
- Auto power on/off
- Thumb wheel for fine adjustment
- Packed in plastic box



| Range         | Resolution     | Accuracy       | Code No.         |
|---------------|----------------|----------------|------------------|
| 0-100mm/0-4"  | 0.01mm/0.0005" | 0.02mm/0.001"  | <b>14304-041</b> |
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.02mm/0.001"  | <b>14304-061</b> |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>14304-081</b> |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>14304-121</b> |

## IP67 Rechargeable Digital Caliper



IP67

### Features

- Stainless steel material
- Inductive measurement system
- IP67 protection level
- Auto power on/off
- Thumb wheel for fine adjustment
- Built-in rechargeable lithium battery
- Built-in Bluetooth data transmission (optional)



| Range         | Resolution     | Accuracy       | with<br>thumb wheel | without<br>thumb wheel |
|---------------|----------------|----------------|---------------------|------------------------|
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.02mm/0.001"  | <b>11303-061</b>    | <b>11303-060</b>       |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>11303-081</b>    | <b>11303-08</b>        |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>11303-121</b>    | <b>11303-120</b>       |

## Dial Caliper

### Features

- Surface-hardened stainless steel construction
- Preloaded dual pinions eliminate backlash
- Thumb wheel for fine adjustment
- Packed in plastic box

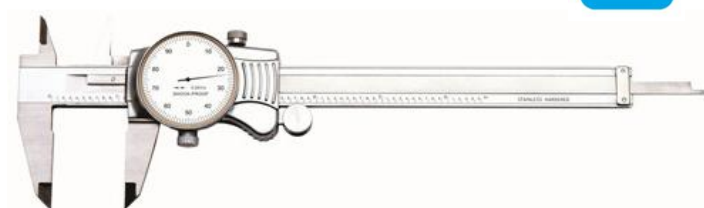


| Range         | Graduation | Accuracy | Code No.         |
|---------------|------------|----------|------------------|
| <b>Metric</b> |            |          |                  |
| 0-150mm       | 0.02mm     | ±0.03mm  | <b>12012-061</b> |
| 0-200mm       | 0.02mm     | ±0.03mm  | <b>12012-081</b> |
| 0-300mm       | 0.02mm     | ±0.04mm  | <b>12012-121</b> |
| <b>Inch</b>   |            |          |                  |
| 0-6"          | 0.001"     | ±0.0015" | <b>12021-061</b> |
| 0-8"          | 0.001"     | ±0.0015" | <b>12021-081</b> |
| 0-12"         | 0.001"     | ±0.002"  | <b>12021-121</b> |

## Metal Housing Dial Caliper

### Features

- Surface-hardened stainless steel construction
- Preloaded dual pinions eliminate backlash
- Sturdy Aluminum ergonomic die cast housing can be used in the harshest environments
- The dual pinion mechanism offers extra smooth operation



| Range         | Graduation | Accuracy | Code No.         |
|---------------|------------|----------|------------------|
| <b>Metric</b> |            |          |                  |
| 0-150mm       | 0.02mm     | ±0.03mm  | <b>15012-061</b> |
| 0-200mm       | 0.02mm     | ±0.03mm  | <b>15012-081</b> |
| 0-300mm       | 0.02mm     | ±0.04mm  | <b>15012-121</b> |
| <b>Inch</b>   |            |          |                  |
| 0-6"          | 0.001"     | ±0.0015" | <b>15021-061</b> |
| 0-8"          | 0.001"     | ±0.0015" | <b>15021-081</b> |
| 0-12"         | 0.001"     | ±0.002"  | <b>15021-121</b> |

## Heavy Duty Digital Caliper with Upper Knife-edge

### Features

- Stainless steel material
- With upper knife-edge for external measurement
- Design with fine adjustment to allow precise movement
- Hold and Pre-set function



**19001-050 (E type)**

| Range          | Resolution     | Accuracy       | T         | Jaw Length |       | Upper Jaw | Code No.         |
|----------------|----------------|----------------|-----------|------------|-------|-----------|------------------|
|                |                |                |           | A          | E     |           |                  |
| 0-300mm/0-12"  | 0.01mm/0.0005" | 0.04mm/0.002"  | 10mm/0.5" | 90mm       | 90mm  | 38mm      | <b>19001-030</b> |
| 0-500mm/0-20"  | 0.01mm/0.0005" | 0.05mm/0.002"  | 20mm/0.8" |            | 150mm | 60mm      | <b>19001-050</b> |
| 0-600mm/0-24"  | 0.01mm/0.0005" | 0.05mm/0.002"  | 20mm/0.8" | 100mm      |       | 60mm      | <b>19001-060</b> |
| 0-800mm/0-32"  | 0.01mm/0.0005" | 0.06mm/0.0025" | 20mm/0.8" | 125mm      | 150mm | 63mm      | <b>19001-080</b> |
| 0-1000mm/0-40" | 0.01mm/0.0005" | 0.06mm/0.0025" | 20mm/0.8" | 125mm      | 150mm | 63mm      | <b>19001-100</b> |

## Heavy Duty Digital Caliper

### Features

- Stainless steel material
- Designed with fine adjustment to allow precise movement
- Stainless steel with hardened measuring faces
- Hold and Pre-set function



**19002-060 (A type)**

| Range          | Resolution     | Accuracy       | T         | Jaw Length |       | Code No.         |
|----------------|----------------|----------------|-----------|------------|-------|------------------|
|                |                |                |           | A          | E     |                  |
| 0-300mm/0-12"  | 0.01mm/0.0005" | 0.04mm/0.002"  | 10mm/0.5" | 90mm       | 90mm  | <b>19002-030</b> |
| 0-500mm/0-20"  | 0.01mm/0.0005" | 0.05mm/0.002"  | 20mm/0.8" |            | 150mm | <b>19002-050</b> |
| 0-600mm/0-24"  | 0.01mm/0.0005" | 0.05mm/0.002"  | 20mm/0.8" | 100mm      |       | <b>19002-060</b> |
| 0-800mm/0-32"  | 0.01mm/0.0005" | 0.06mm/0.0025" | 20mm/0.8" | 125mm      | 150mm | <b>19002-080</b> |
| 0-1000mm/0-40" | 0.01mm/0.0005" | 0.06mm/0.0025" | 20mm/0.8" | 125mm      | 150mm | <b>19002-100</b> |

## IP65 Heavy Duty Digital Caliper with Upper Knife-edge

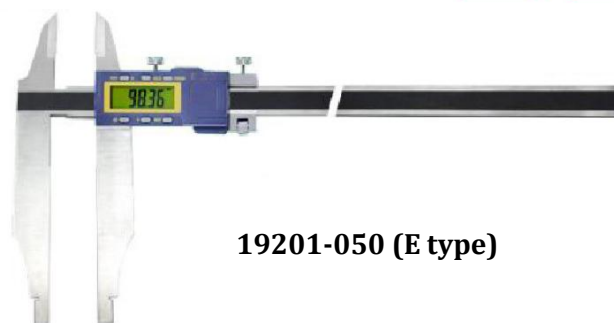


Data  
Output

IP65

### Features

- With upper knife-edge for external measurement
- Design with fine adjustment to allow precise movement
- Hold and Pre-set function
- Inductive measurement system, provide IP65 protection grade
- SPC data output port (DCB-01 / DWB-01). Built-in wireless transmission is optional



**19201-050 (E type)**

| Range          | Resolution     | Accuracy       | T1        | Jaw Length |       | Upper Jaw | Code No.         |
|----------------|----------------|----------------|-----------|------------|-------|-----------|------------------|
|                |                |                |           | A          | E     |           |                  |
| 0-300mm/0-12"  | 0.01mm/0.0005" | 0.03mm/0.0015" | 10mm/0.5" | 90mm       | 90mm  | 38mm      | <b>19201-030</b> |
| 0-500mm/0-20"  | 0.01mm/0.0005" | 0.05mm/0.002"  | 20mm/0.8" |            | 150mm | 60mm      | <b>19201-050</b> |
| 0-600mm/0-24"  | 0.01mm/0.0005" | 0.05mm/0.002"  | 20mm/0.8" | 100mm      |       | 60mm      | <b>19201-060</b> |
| 0-800mm/0-32"  | 0.01mm/0.0005" | 0.06mm/0.0025" | 20mm/0.8" | 125mm      | 150mm | 63mm      | <b>19201-080</b> |
| 0-1000mm/0-40" | 0.01mm/0.0005" | 0.06mm/0.0025" | 20mm/0.8" | 125mm      | 150mm | 63mm      | <b>19201-100</b> |

## IP65 Heavy Duty Digital Caliper



Data  
Output

IP65

### Features

- Designed with fine adjustment to allow precise movement
- Stainless steel with hardened measuring faces
- Hold and Pre-set function
- Inductive measurement system, provide IP65 protection grade
- SPC data output port (DCB-01 / DWB-01). Built-in wireless transmission is optional



**A type**

**E type**

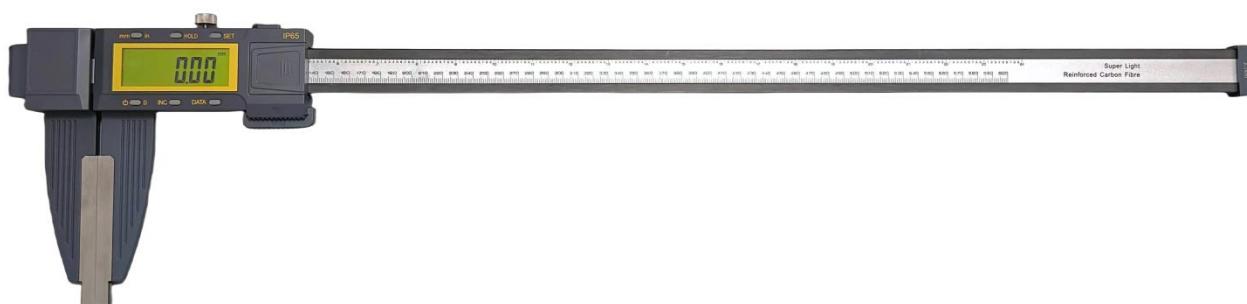
| Range          | Resolution     | Accuracy       | T1        | Jaw Length |       | Code No.         |
|----------------|----------------|----------------|-----------|------------|-------|------------------|
|                |                |                |           | A          | E     |                  |
| 0-300mm/0-12"  | 0.01mm/0.0005" | 0.03mm/0.0015" | 10mm/0.5" | 90mm       | 90mm  | <b>19202-030</b> |
| 0-500mm/0-20"  | 0.01mm/0.0005" | 0.05mm/0.002"  | 20mm/0.8" |            | 150mm | <b>19202-050</b> |
| 0-600mm/0-24"  | 0.01mm/0.0005" | 0.05mm/0.002"  | 20mm/0.8" | 100mm      |       | <b>19202-060</b> |
| 0-800mm/0-32"  | 0.01mm/0.0005" | 0.06mm/0.0025" | 20mm/0.8" | 125mm      | 150mm | <b>19202-080</b> |
| 0-1000mm/0-40" | 0.01mm/0.0005" | 0.06mm/0.0025" | 20mm/0.8" | 125mm      | 150mm | <b>19202-100</b> |

## IP65 Water-Proof Carbon Fiber Digital Caliper



### Features

- Main frame is made of carbon fiber, super light
- Inductive measurement system, provide IP65 protection grade
- SPC data output port (DCB-01 / DWB-01)
- Built-in wireless transmission is optional
- SET button for preset function



| Range          | Resolution     | Accuracy       | T         | Jaw Length | Code No.         |
|----------------|----------------|----------------|-----------|------------|------------------|
| 0-600mm/0-24"  | 0.01mm/0.0005" | 0.05mm/0.002"  | 20mm/0.8" | 138mm      | <b>19302-241</b> |
| 0-600mm/0-24"  | 0.01mm/0.0005" | 0.07mm/0.003"  | 20mm/0.8" | 200mm      | <b>19302-242</b> |
| 0-1000mm/0-40" | 0.01mm/0.0005" | 0.06mm/0.0025" | 20mm/0.8" | 138mm      | <b>19302-401</b> |
| 0-1000mm/0-40" | 0.01mm/0.0005" | 0.10mm/0.004"  | 20mm/0.8" | 200mm      | <b>19302-402</b> |

## Digital Scale

Data  
Output

### Features

- Metric/Inch conversion
- Zero-set at any position
- Data output port (DCB-02, DWB-02, DWB-05)



| Range          | Resolution     | Accuracy       | Vertical Code No. | Horizontal Code No. |
|----------------|----------------|----------------|-------------------|---------------------|
| 0-100mm/0-4"   | 0.01mm/0.0005" | 0.02mm/0.001"  | <b>18301-041</b>  | <b>18301-040</b>    |
| 0-150mm/0-6"   | 0.01mm/0.0005" | 0.02mm/0.001"  | <b>18301-061</b>  | <b>18301-060</b>    |
| 0-200mm/0-8"   | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>18301-081</b>  | <b>18301-080</b>    |
| 0-300mm/0-12"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>18301-121</b>  | <b>18301-120</b>    |
| 0-500mm/0-20"  | 0.01mm/0.0005" | 0.05mm/0.0020" | <b>18301-201</b>  | <b>18301-200</b>    |
| 0-1000mm/0-40" | 0.01mm/0.0005" | 0.06mm/0.0030" | <b>18301-401</b>  | <b>18301-400</b>    |

## IP67 Digital Scale

### Features

- Inductive measurement system
- Metric/Inch conversion
- Zero-set at any position
- IP67 protection level, can work in hard conditions
- Auto power on/off
- Built-in wireless transmission (optional)



IP67

| Range          | Resolution     | Accuracy       | Vertical Code No. | Horizontal Code No. |
|----------------|----------------|----------------|-------------------|---------------------|
| 0-100mm/0-4"   | 0.01mm/0.0005" | 0.02mm/0.001"  | <b>18302-041</b>  | <b>18302-040</b>    |
| 0-150mm/0-6"   | 0.01mm/0.0005" | 0.02mm/0.001"  | <b>18302-061</b>  | <b>18302-060</b>    |
| 0-200mm/0-8"   | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>18302-081</b>  | <b>18302-080</b>    |
| 0-300mm/0-12"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>18302-121</b>  | <b>18302-120</b>    |
| 0-500mm/0-20"  | 0.01mm/0.0005" | 0.05mm/0.0020" | <b>18302-201</b>  | <b>18302-200</b>    |
| 0-1000mm/0-40" | 0.01mm/0.0005" | 0.06mm/0.0030" | <b>18302-401</b>  | <b>18302-400</b>    |

## IP67 Digital Scale without Display

IP67

### Features

- Inductive measurement system
- Metric/Inch conversion
- IP67 protection level, can work in hard conditions
- With port for power and external display (doesn't include)



| Range          | Resolution     | Accuracy       | Code No.  |
|----------------|----------------|----------------|-----------|
| 0-150mm/0-6"   | 0.01mm/0.0005" | 0.02mm/0.001"  | 18303-060 |
| 0-200mm/0-8"   | 0.01mm/0.0005" | 0.03mm/0.0015" | 18303-080 |
| 0-300mm/0-12"  | 0.01mm/0.0005" | 0.03mm/0.0015" | 18303-120 |
| 0-600mm/0-24"  | 0.01mm/0.0005" | 0.05mm/0.002"  | 18303-240 |
| 0-800mm/0-32"  | 0.01mm/0.0005" | 0.05mm/0.002"  | 18303-320 |
| 0-1000mm/0-40" | 0.01mm/0.0005" | 0.06mm/0.0025" | 18303-400 |

## Digital Display

### Features

- Easy read super large LCD display
- Metric/Inch conversion
- Powered by 2pcs 3V Lithium battery, can use external power
- Can read display data of measuring tools and update continuously
- With many functions (such as: PRESET, HOLD, TOL, MAX, MIN etc.)
- With expandable signal output



DP-01

## Absolute Digital Tube Caliper



### Features

- Measure the thickness of Tube
- Absolute encoder measuring system, no response speed limit
- IP65 protection level
- mm/inch conversion
- With data output port (DCB-01, DWB-01)



| Range         | Resolution     | Accuracy       | with thumb wheel | without thumb wheel |
|---------------|----------------|----------------|------------------|---------------------|
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16001-061</b> | <b>16001-060</b>    |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16001-081</b> | <b>16001-080</b>    |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.04mm/0.0015" | <b>16001-121</b> | <b>16001-120</b>    |

## IP67 Digital Tube Caliper



### Features

- Measure thickness of tube
- Inductive measurement system
- IP67 protection level
- mm/inch conversion
- Built in wireless transmission (optional)



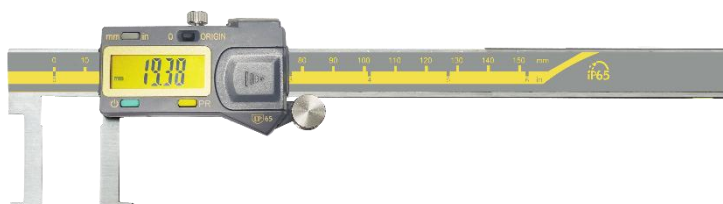
| Range         | Resolution     | Accuracy       | with thumb wheel | without thumb wheel |
|---------------|----------------|----------------|------------------|---------------------|
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16301-061</b> | <b>16301-060</b>    |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16301-081</b> | <b>16301-080</b>    |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.04mm/0.0015" | <b>16301-121</b> | <b>16301-120</b>    |

## Absolute Digital Internal Grooves Caliper



### Features

- Universal Jaws for measuring internal grooves
- Absolute encoder measuring system, no response speed limit
- IP65 protection level
- mm/inch conversion
- Preset function
- With data output port (DCB-01, DWB-01)



| Range              | Resolution     | Accuracy       | with thumb wheel | without thumb wheel |
|--------------------|----------------|----------------|------------------|---------------------|
| 20-170mm/0.78-6.7" | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16002-061</b> | <b>16002-060</b>    |
| 25-225mm/0.98-8.8" | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16002-081</b> | <b>16002-080</b>    |
| 30-330mm/1.18-13"  | 0.01mm/0.0005" | 0.04mm/0.0015" | <b>16002-121</b> | <b>16002-120</b>    |

## IP67 Digital Internal Groove Caliper



### Features

- Universal Jaws for measuring internal grooves
- Inductive measurement system
- IP67 protection level
- mm/inch conversion
- Preset function
- Built in wireless transmission (optional)



| Range              | Resolution     | Accuracy       | with thumb wheel | without thumb wheel |
|--------------------|----------------|----------------|------------------|---------------------|
| 20-170mm/0.78-6.7" | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16302-061</b> | <b>16302-060</b>    |
| 25-225mm/0.98-8.8" | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16302-081</b> | <b>16302-080</b>    |
| 30-330mm/1.18-13"  | 0.01mm/0.0005" | 0.04mm/0.0015" | <b>16302-121</b> | <b>16302-120</b>    |

## Absolute Digital External Grooves Caliper



### Features

- Universal Jaws for measuring external grooves
- Absolute encoder measuring system, no response speed limit
- IP65 protection level
- mm/inch conversion
- With data output port (DCB-01, DWB-01)



| Range         | Resolution     | Accuracy       | with thumb wheel | without thumb wheel |
|---------------|----------------|----------------|------------------|---------------------|
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16003-061</b> | <b>16003-060</b>    |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16003-081</b> | <b>16003-080</b>    |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.04mm/0.0015" | <b>16003-121</b> | <b>16003-120</b>    |

## IP67 Digital External Grooves Caliper



### Features

- Universal Jaws for measuring external grooves
- Inductive measurement system
- IP67 protection level
- mm/inch conversion
- Built in wireless transmission (optional)



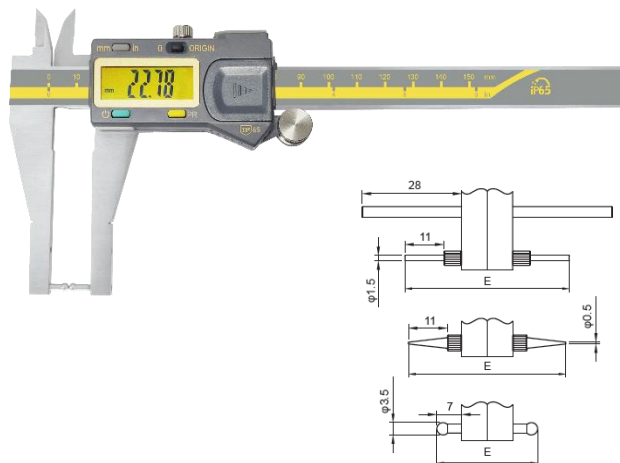
| Range         | Resolution     | Accuracy       | with thumb wheel | without thumb wheel |
|---------------|----------------|----------------|------------------|---------------------|
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16303-061</b> | <b>16303-060</b>    |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16303-081</b> | <b>16303-080</b>    |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.04mm/0.0015" | <b>16303-121</b> | <b>16303-120</b>    |

## Absolute Digital Caliper with multi-Functions



### Features

- Can measure the outside and internal dimensions
- Absolute encoder measuring system, no response speed limit
- IP65 protection level
- Preset function
- 3 type of measuring anvils are included
- With data output port (DCB-01, DWB-01)



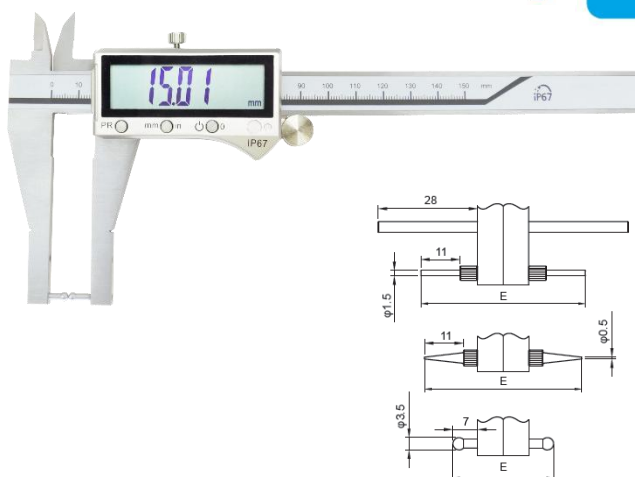
| Range         | Resolution     | Accuracy       | Code No.         |
|---------------|----------------|----------------|------------------|
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16003-061</b> |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16003-081</b> |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.04mm/0.0015" | <b>16003-121</b> |

## IP67 Digital Caliper with multi-Functions



### Features

- Can measure the outside and internal dimensions
- Inductive measurement system
- IP67 protection level
- Preset function
- 3 type of measuring anvils are included
- Built in wireless transmission (optional)



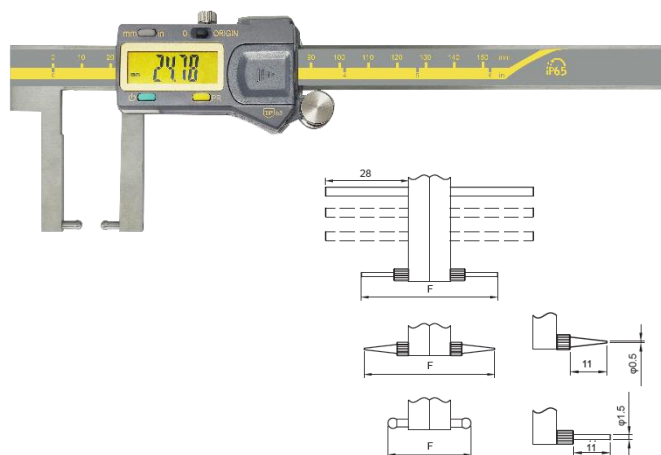
| Range         | Resolution     | Accuracy       | Code No.         |
|---------------|----------------|----------------|------------------|
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16303-061</b> |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16303-081</b> |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.04mm/0.0015" | <b>16303-121</b> |

## Absolute Digital Caliper with multi-Functions



### Features

- Can measure the outside and internal dimensions
- Absolute encoder measuring system, no response speed limit
- IP65 protection level
- Preset function
- 3 type of measuring anvils are included
- With data output port (DCB-01, DWB-01)



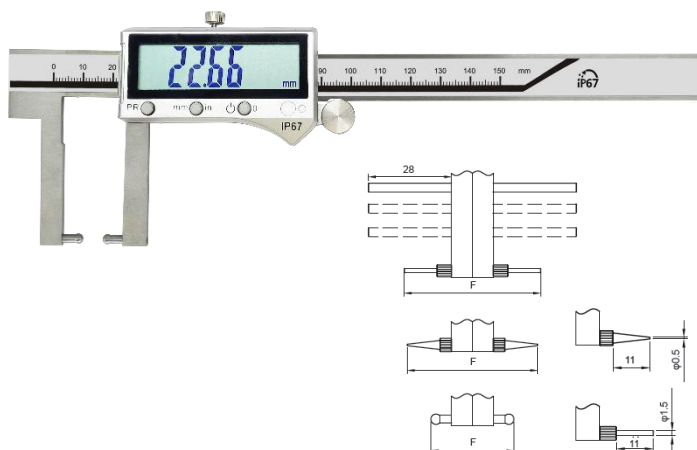
| Range         | Resolution     | Accuracy       | Code No.         |
|---------------|----------------|----------------|------------------|
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16003-061</b> |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16003-081</b> |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.04mm/0.0015" | <b>16003-121</b> |

## IP67 Digital Caliper with multi-Functions



### Features

- Can measure the outside and internal dimensions
- Inductive measurement system
- IP67 protection level
- Preset function
- 3 type of measuring anvils are included
- Built in wireless transmission (optional)



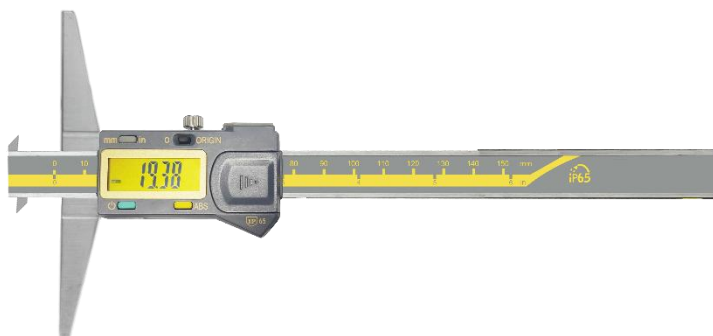
| Range         | Resolution     | Accuracy       | Code No.         |
|---------------|----------------|----------------|------------------|
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16303-061</b> |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16303-081</b> |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.04mm/0.0015" | <b>16303-121</b> |

## Absolute Digital Depth Caliper with Double Hooks



### Features

- The hooked measuring surface are used for measurement of internal or external grooves and other intricate work piece characteristics
- Absolute encoder measuring system, no response speed limit
- IP65 protection level
- mm/inch conversion
- With data output port (DCB-01, DWB-01)



| Range         | Resolution     | Accuracy       | Code No.         |
|---------------|----------------|----------------|------------------|
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16004-060</b> |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16004-080</b> |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.04mm/0.0015" | <b>16004-120</b> |

## IP67 Digital Depth Caliper with Double Hooks



### Features

- The hooked measuring surface are used for measurement of internal or external grooves and other intricate work piece characteristics
- Inductive measurement system
- IP67 protection level
- mm/inch conversion
- Built in wireless transmission (optional)



| Range         | Resolution     | Accuracy       | Code No.         |
|---------------|----------------|----------------|------------------|
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16304-060</b> |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16304-080</b> |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.04mm/0.0015" | <b>16304-120</b> |

## Absolute Digital Depth Calipers with Single Hook

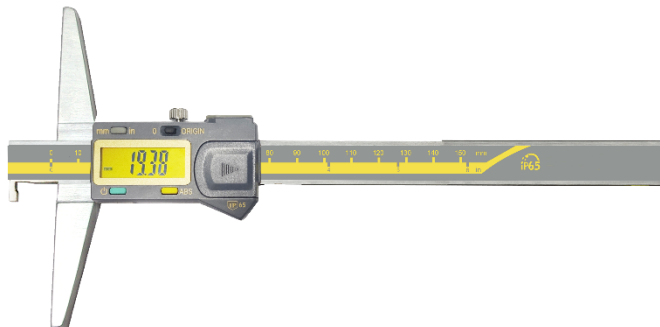
Absolute

Data  
Output

IP65

### Features

- Absolute encoder measuring system, no response speed limit
- IP65 protection level
- mm/inch conversion
- With data output port (DCB-01, DWB-01)



| Range         | Resolution     | Accuracy       | Code No.         |
|---------------|----------------|----------------|------------------|
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16005-060</b> |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16005-080</b> |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.04mm/0.0015" | <b>16005-120</b> |

## IP67 Digital Depth Calipers with Single Hook



IP67

### Features

- Inductive measurement system
- IP67 protection level
- mm/inch conversion
- Built in wireless transmission (optional)



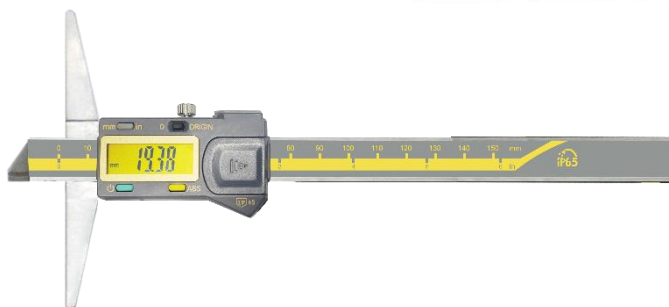
| Range         | Resolution     | Accuracy       | Code No.         |
|---------------|----------------|----------------|------------------|
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16305-060</b> |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16305-080</b> |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.04mm/0.0015" | <b>16305-120</b> |

## Absolute Digital Depth Caliper without Hook



### Features

- Absolute encoder measuring system, no response speed limit
- IP65 protection level
- mm/inch conversion
- With data output port (DCB-01, DWB-01)



| Range         | Resolution     | Accuracy       | Code No.         |
|---------------|----------------|----------------|------------------|
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16006-060</b> |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16006-080</b> |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.04mm/0.0015" | <b>16006-120</b> |

## IP67 Digital Depth Caliper without Hook



### Features

- Inductive measurement system
- IP67 protection level
- mm/inch conversion
- Built in wireless transmission (optional)



| Range         | Resolution     | Accuracy       | Code No.         |
|---------------|----------------|----------------|------------------|
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16306-060</b> |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16306-080</b> |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.04mm/0.0015" | <b>16306-120</b> |

## Absolute Digital Depth Caliper with Exchangeable Anvil

Absolute

Data  
Output

IP65

### Features

- Absolute encoder measuring system, no response speed limit
- IP65 protection level
- mm/inch conversion
- With data output port (DCB-01, DWB-01)



| Range         | Resolution     | Accuracy       | Code No.         |
|---------------|----------------|----------------|------------------|
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16006-060</b> |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16006-080</b> |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.04mm/0.0015" | <b>16006-120</b> |

## IP67 Digital Depth Caliper with Exchangeable Anvil



IP67

### Features

- Inductive measurement system
- IP67 protection level
- mm/inch conversion
- Built in wireless transmission (optional)



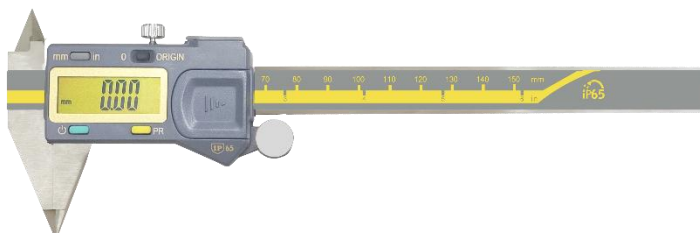
| Range         | Resolution     | Accuracy       | Code No.         |
|---------------|----------------|----------------|------------------|
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16306-060</b> |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16306-080</b> |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.04mm/0.0015" | <b>16306-120</b> |

## Absolute Digital Caliper with Point Jaws



### Features

- The point jaws for measurement of narrow space
- Absolute encoder measuring system, no response speed limit
- IP65 protection level
- mm/inch conversion
- With data output port (DCB-01, DWB-01)



| Range         | Resolution     | Accuracy       | Code No.         |
|---------------|----------------|----------------|------------------|
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16007-061</b> |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16007-081</b> |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.04mm/0.0015" | <b>16007-121</b> |

## IP67 Digital Caliper with Point Jaws



### Features

- The point jaws for measurement of narrow space
- Inductive measurement system
- IP67 protection level
- mm/inch conversion
- Built in wireless transmission (optional)



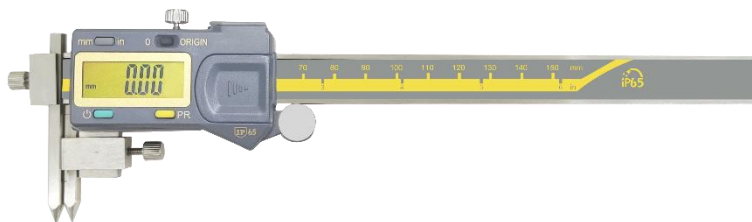
| Range         | Resolution     | Accuracy       | Code No.         |
|---------------|----------------|----------------|------------------|
| 0-150mm/0-6"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16307-061</b> |
| 0-200mm/0-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16307-081</b> |
| 0-300mm/0-12" | 0.01mm/0.0005" | 0.04mm/0.0015" | <b>16307-121</b> |

## Absolute Digital Caliper for Center Distance



### Features

- Cone measuring face for measurement of the center distance of two holes and the distance from the hole center to the part edge
- Absolute encoder measuring system, no response speed limit
- IP65 protection level
- Preset function
- With data output port (DCB-01, DWB-01)



| Range           | Resolution     | Accuracy       | Code No.         |
|-----------------|----------------|----------------|------------------|
| 5-155mm/0.2-6"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16008-061</b> |
| 5-205mm/0.2-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16008-081</b> |
| 5-305mm/0.2-12" | 0.01mm/0.0005" | 0.04mm/0.0015" | <b>16008-121</b> |

## IP67 Digital Caliper for Center Distance



### Features

- Cone measuring face for measurement of the center distance of two holes and the distance from the hole center to the part edge
- Inductive measurement system
- IP67 protection level
- Preset function
- Built in wireless transmission (optional)



| Range           | Resolution     | Accuracy       | Code No.         |
|-----------------|----------------|----------------|------------------|
| 5-155mm/0.2-6"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16308-061</b> |
| 5-205mm/0.2-8"  | 0.01mm/0.0005" | 0.03mm/0.0015" | <b>16308-081</b> |
| 5-305mm/0.2-12" | 0.01mm/0.0005" | 0.04mm/0.0015" | <b>16308-121</b> |

## IP65 Digital Outside Micrometer

Data  
Output

IP65

### Features

- IP65 protection level
- Carbide tipped measuring faces
- Auto power off to maximize battery life
- With data output port (DCB-02, DWB-02, DWB-05)



| Range          | Resolution       | Accuracy         | Metric Code No.  | Inch Code No.    |
|----------------|------------------|------------------|------------------|------------------|
| 0-25mm/0-1"    | 0.001mm/0.00005" | ±0.002mm/0.0001" | <b>21211-012</b> | <b>21221-012</b> |
| 25-50mm/1-2"   | 0.001mm/0.00005" | ±0.002mm/0.0002" | <b>21211-022</b> | <b>21221-022</b> |
| 50-75mm/2-3"   | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>21211-032</b> | <b>21221-032</b> |
| 75-100mm/3-4"  | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>21211-042</b> | <b>21221-042</b> |
| 100-125mm/4-5" | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>21211-052</b> | <b>21221-052</b> |
| 125-150mm/5-6" | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>21211-062</b> | <b>21221-062</b> |

## IP65 Digital Outside Micrometer

IP65

### Features

- Protection level IP65
- Ratchet Stop (Ratchet Thimble is optional)
- Automatic off function to maximize battery life
- Carbide tipped measuring faces



| Range          | Resolution       | Accuracy         | Metric Code No.  | Inch Code No.    |
|----------------|------------------|------------------|------------------|------------------|
| 0-25mm/0-1"    | 0.001mm/0.00005" | ±0.002mm/0.0001" | <b>21212-011</b> | <b>21222-011</b> |
| 25-50mm/1-2"   | 0.001mm/0.00005" | ±0.002mm/0.0002" | <b>21212-021</b> | <b>21222-021</b> |
| 50-75mm/2-3"   | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>21212-031</b> | <b>21222-031</b> |
| 75-100mm/3-4"  | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>21212-041</b> | <b>21222-041</b> |
| 100-125mm/4-5" | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>21212-051</b> | <b>21222-051</b> |
| 125-150mm/5-6" | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>21212-061</b> | <b>21222-061</b> |
| 150-175mm/6-7" | 0.001mm/0.00005" | ±0.004mm/0.0002" | <b>21212-071</b> | <b>21222-071</b> |
| 175-200mm/7-8" | 0.001mm/0.00005" | ±0.004mm/0.0002" | <b>21212-081</b> | <b>21222-081</b> |

## IP65 Digital Outside Micrometer



### Features

- IP65 protection level
- Carbide tipped measuring faces
- Built-in rechargeable lithium battery
- SPC data output port (DCB-02, DWB-02, DWB-05)
- Built-in Bluetooth data transmission is optional



| Range         | Resolution       | Accuracy         | Metric Code No.  | Inch Code No.    |
|---------------|------------------|------------------|------------------|------------------|
| 0-25mm/0-1"   | 0.001mm/0.00005" | ±0.002mm/0.0001" | <b>21215-011</b> | <b>21225-011</b> |
| 25-50mm/1-2"  | 0.001mm/0.00005" | ±0.002mm/0.0002" | <b>21215-021</b> | <b>21225-021</b> |
| 50-75mm/2-3"  | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>21215-031</b> | <b>21225-031</b> |
| 75-100mm/3-4" | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>21215-041</b> | <b>21225-041</b> |

## IP65 Quick Digital Outside Micrometer



### Features

- 2mm large pitch lead screw
- Protection level IP65
- Carbide tipped measuring faces
- Built-in rechargeable lithium battery
- SPC data output port (DCB-02, DWB-02, DWB-05)
- Built-in Bluetooth data transmission is optional



| Range         | Resolution       | Accuracy         | Metric Code No.  | Inch Code No.    |
|---------------|------------------|------------------|------------------|------------------|
| 0-25mm/0-1"   | 0.001mm/0.00005" | ±0.002mm/0.0001" | <b>21215-013</b> | <b>21225-013</b> |
| 25-50mm/1-2"  | 0.001mm/0.00005" | ±0.002mm/0.0002" | <b>21215-023</b> | <b>21225-023</b> |
| 50-75mm/2-3"  | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>21215-033</b> | <b>21225-033</b> |
| 75-100mm/3-4" | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>21215-043</b> | <b>21225-043</b> |

## Digital Outside Micrometer



### Features

- Incremental capacitive measurement system
- Carbide tipped measuring faces
- Ratchet friction thimble
- With data output port (DCB-01, DWB-01)
- Built-in wireless data transmission (optional)



| Range          | Resolution       | Accuracy         | Code No.         |
|----------------|------------------|------------------|------------------|
| 0-25mm/0-1"    | 0.001mm/0.00005" | ±0.002mm/0.0001" | <b>21013-010</b> |
| 25-50mm/1-2"   | 0.001mm/0.00005" | ±0.002mm/0.0002" | <b>21013-020</b> |
| 50-75mm/2-3"   | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>21013-030</b> |
| 75-100mm/3-4"  | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>21013-040</b> |
| 100-125mm/4-5" | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>21013-050</b> |
| 125-150mm/5-6" | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>21013-060</b> |

## Digital Outside Micrometer

### Features:

- Incremental capacitive measurement system
- Carbide tipped measuring faces
- Ratchet friction thimble
- Inch/Metric conversion
- Constant force ratchet on thimble



| Range          | Resolution       | Accuracy         | Code No.         |
|----------------|------------------|------------------|------------------|
| 0-25mm/0-1"    | 0.001mm/0.00005" | ±0.002mm/0.0001" | <b>21012-010</b> |
| 25-50mm/1-2"   | 0.001mm/0.00005" | ±0.002mm/0.0002" | <b>21012-020</b> |
| 50-75mm/2-3"   | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>21012-030</b> |
| 75-100mm/3-4"  | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>21012-040</b> |
| 100-125mm/4-5" | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>21012-050</b> |
| 125-150mm/5-6" | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>21012-060</b> |

## Digital Outside Micrometer

### Features

- Carbide tipped measuring faces
- Ratchet friction thimble
- Inch/Metric conversion
- Automatic off function to maximize battery life



| Range          | Resolution       | Accuracy         | Code No.         |
|----------------|------------------|------------------|------------------|
| 0-25mm/0-1"    | 0.001mm/0.00005" | ±0.002mm/0.0001" | <b>21011-010</b> |
| 25-50mm/1-2"   | 0.001mm/0.00005" | ±0.002mm/0.0002" | <b>21011-020</b> |
| 50-75mm/2-3"   | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>21011-030</b> |
| 75-100mm/3-4"  | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>21011-040</b> |
| 100-125mm/4-5" | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>21011-050</b> |
| 125-150mm/5-6" | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>21011-060</b> |

## Micrometer Stand

### Features:

- Used for sustain the micrometer or do other clamping
- Clamp with rubber pads for protecting the instruments

| Main Material | Code No.         |
|---------------|------------------|
| Cast Iron     | <b>69001-000</b> |
| Aluminum      | <b>69002-000</b> |



## Absolute Snap Outside Micrometer



### Features

- IP65 production level
- With data output port
- Carbide tipped measuring faces
- With data output port (DCB-01, DWB-01)
- Built-in wireless data transmission (optional)



| Range         | Resolution       | Accuracy          | Metric Code No.  | Inch Code No.    |
|---------------|------------------|-------------------|------------------|------------------|
| 0-25mm/0-1"   | 0.001mm/0.00005" | ±0.003mm/0.00015" | <b>21213-010</b> | <b>21223-010</b> |
| 25-50mm/1-2"  | 0.001mm/0.00005" | ±0.003mm/0.00015" | <b>21213-020</b> | <b>21223-020</b> |
| 50-75mm/2-3"  | 0.001mm/0.00005" | ±0.004mm/0.00015" | <b>21213-030</b> | <b>21223-030</b> |
| 75-100mm/3-4" | 0.001mm/0.00005" | ±0.004mm/0.00015" | <b>21213-040</b> | <b>21223-040</b> |

## Indicator Snap Outside Micrometer

### Features

- Retractable anvil with an indicator for precision measurement of mass-produced parts
- Carbide measuring faces
- 6.5mm spindle diameter
- Graduation: Indicator: 0.001mm / 0.00005"  
Scale: 0.002mm / 0.0001"
- Indicator range  $\pm 0.04\text{mm}$



| Range           | Accuracy                       | Metric Code No.  | Inch Code No.    |
|-----------------|--------------------------------|------------------|------------------|
| 0-25mm / 0-1"   | $\pm 0.002\text{mm} / 0.0001"$ | <b>27011-010</b> | <b>27021-010</b> |
| 25-50mm / 1-2"  | $\pm 0.002\text{mm} / 0.0002"$ | <b>27011-020</b> | <b>27021-020</b> |
| 50-75mm / 2-3"  | $\pm 0.003\text{mm} / 0.0002"$ | <b>27011-030</b> | <b>27021-030</b> |
| 75-100mm / 3-4" | $\pm 0.003\text{mm} / 0.0002"$ | <b>27011-040</b> | <b>27021-040</b> |

## Indicator Snap Outside Micrometer

### Features

- IP54 protection level
- Carbide measuring faces
- 10mm spindle diameter
- Graduation: 0.001mm / 0.00005"
- Indicator range  $\pm 0.04\text{mm}$
- Direct GO/NOGO judgment for mass-produced parts
- Measuring force 5-10N

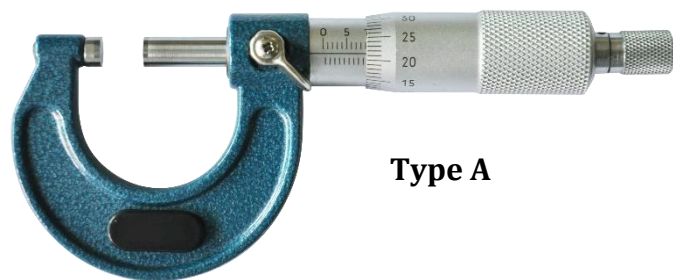


| Range           | Accuracy                        | Metric Code No.  | Inch Code No.    |
|-----------------|---------------------------------|------------------|------------------|
| 0-25mm / 0-1"   | $\pm 0.001\text{mm} / 0.00005"$ | <b>27012-010</b> | <b>27022-010</b> |
| 25-50mm / 1-2"  | $\pm 0.001\text{mm} / 0.00005"$ | <b>27012-020</b> | <b>27022-020</b> |
| 50-75mm / 2-3"  | $\pm 0.001\text{mm} / 0.00005"$ | <b>27012-030</b> | <b>27022-030</b> |
| 75-100mm / 3-4" | $\pm 0.001\text{mm} / 0.00005"$ | <b>27012-040</b> | <b>27022-040</b> |

## Mechanical Outside Micrometer

### Features

- Carbide tipped measuring faces
- Ratchet stop
- Painted steel frame
- The size of type A is available up to 300mm /12"



**Type A**



**Type B**



**Type C**

| Metric    |            |          | Inch  |            |          | Code No          |                  |
|-----------|------------|----------|-------|------------|----------|------------------|------------------|
| Range     | Graduation | Accuracy | Range | Graduation | Accuracy | Metric           | Inch             |
| 0-25mm    | 0.01mm     | ±0.004mm | 0-1"  | 0.001"     | ±.0001"  | <b>23011-011</b> | <b>23021-011</b> |
| 25-50mm   | 0.01mm     | ±0.004mm | 1-2"  | 0.001"     | ±.0002"  | <b>23011-021</b> | <b>23021-021</b> |
| 50-75mm   | 0.01mm     | ±0.005mm | 2-3"  | 0.001"     | ±.0002"  | <b>23011-031</b> | <b>23021-031</b> |
| 75-100mm  | 0.01mm     | ±0.005mm | 3-4"  | 0.001"     | ±.0002"  | <b>23011-041</b> | <b>23021-041</b> |
| 100-125mm | 0.01mm     | ±0.006mm | 4-5"  | 0.001"     | ±.0002"  | <b>23011-051</b> | <b>23021-051</b> |
| 125-150mm | 0.01mm     | ±0.006mm | 5-6"  | 0.001"     | ±.0002"  | <b>23011-061</b> | <b>23021-061</b> |
| 0-25mm    | 0.001mm    | ±0.004mm | 0-1"  | 0.0001"    | ±.0001"  | <b>23012-011</b> | <b>23022-011</b> |
| 25-50mm   | 0.001mm    | ±0.004mm | 1-2"  | 0.0001"    | ±.0002"  | <b>23012-021</b> | <b>23022-021</b> |
| 50-75mm   | 0.001mm    | ±0.005mm | 2-3"  | 0.0001"    | ±.0002"  | <b>23012-031</b> | <b>23022-031</b> |
| 75-100mm  | 0.001mm    | ±0.005mm | 3-4"  | 0.0001"    | ±.0002"  | <b>23012-041</b> | <b>23022-041</b> |
| 100-125mm | 0.001mm    | ±0.006mm | 4-5"  | 0.0001"    | ±.0002"  | <b>23012-051</b> | <b>23022-051</b> |
| 125-150mm | 0.001mm    | ±0.006mm | 5-6"  | 0.0001"    | ±.0002"  | <b>23012-061</b> | <b>23022-061</b> |

## Mechanical Micrometer Set

- Plastic box for 3pcs set and 4pcs set
- Aluminum box and Plastic box for 6pcs set are optional
- Aluminum box and Wooden box are optional for 12pcs set



| Metric    |            | Inch  |            | Code No.         |                  |
|-----------|------------|-------|------------|------------------|------------------|
| Range     | Graduation | Range | Graduation | Metric           | Inch             |
| 0-75mm    | 0.01mm     | 0-3"  | 0.001"     | <b>23011-103</b> | <b>23021-103</b> |
| 0-100mm   | 0.01mm     | 0-4"  | 0.001"     | <b>23011-104</b> | <b>23021-104</b> |
| 0-150mm   | 0.01mm     | 0-6"  | 0.001"     | <b>23011-106</b> | <b>23021-106</b> |
| 150-300mm | 0.01mm     | 6-12" | 0.001"     | <b>23011-206</b> | <b>23021-206</b> |
| 0-300mm   | 0.01mm     | 0-12" | 0.001"     | <b>23011-012</b> | <b>23021-012</b> |

## Mechanical Micrometer with Interchangeable Anvils

### Features

- Carbide tipped measuring faces
- Painted fine cast frame
- 0.01mm/0.001" graduation
- Ratchet stop



| Metric    |            |          | Inch  |            |          | Code No.         |                  |
|-----------|------------|----------|-------|------------|----------|------------------|------------------|
| Range     | Graduation | Accuracy | Range | Graduation | Accuracy | Metric           | Inch             |
| 0-150mm   | 0.01mm     | ±0.006mm | 0-6"  | 0.001"     | ±.0002"  | <b>23111-015</b> | <b>23121-015</b> |
| 150-300mm | 0.01mm     | ±0.008mm | 6-12" | 0.001"     | ±.0003"  | <b>23111-153</b> | <b>23121-153</b> |
| 0-100mm   | 0.01mm     | ±0.005mm | 0-4"  | 0.001"     | ±.0002"  | <b>23111-001</b> | <b>23121-001</b> |
| 100-200mm | 0.01mm     | ±0.007mm | 4-8"  | 0.001"     | ±.0003"  | <b>23111-102</b> | <b>23121-102</b> |
| 200-300mm | 0.01mm     | ±0.009mm | 8-12" | 0.001"     | ±.0003"  | <b>23111-203</b> | <b>23121-203</b> |

## Digital Tube Micrometer

### Features:

- Large LCD display
- Carbide measuring face, Painted frame
- Measuring wall thickness of various tubes



| Range         | Resolution       | Accuracy         | Code No.          |
|---------------|------------------|------------------|-------------------|
| 0-25mm/0-1"   | 0.001mm/0.00005" | 0.003mm/0.00015" | <b>26011-010A</b> |
| 25-50mm/1-2"  | 0.001mm/0.00005" | 0.003mm/0.00015" | <b>26011-020A</b> |
| 50-75mm/2-3"  | 0.001mm/0.00005" | 0.004mm/0.00015" | <b>26011-030A</b> |
| 75-100mm/3-4" | 0.001mm/0.00005" | 0.004mm/0.00015" | <b>26011-040A</b> |

## Digital Tube Micrometer

### Features:

- Large LCD display
- Carbide measuring face, Painted frame
- For measuring wall thickness of various tubes
- With data output port (DCB-01, DWB-01)
- Built-in wireless data transmission (optional)



| Range         | Resolution       | Accuracy         | Code No.          |
|---------------|------------------|------------------|-------------------|
| 0-25mm/0-1"   | 0.001mm/0.00005" | 0.003mm/0.0001"  | <b>26011-010B</b> |
| 25-50mm/1-2"  | 0.001mm/0.00005" | 0.003mm/0.0001"  | <b>26011-020B</b> |
| 50-75mm/2-3"  | 0.001mm/0.00005" | 0.004mm/0.00015" | <b>26011-030B</b> |
| 75-100mm/3-4" | 0.001mm/0.00005" | 0.004mm/0.00015" | <b>26011-040B</b> |

## Mechanical Tube Micrometer

### Features:

- Carbide measuring face, Painted frame
- For measuring wall thickness of various tubes



| Range         | Resolution     | Accuracy         | Code No.           |
|---------------|----------------|------------------|--------------------|
| 0-25mm/0-1"   | 0.01mm/0.0001" | 0.004mm/0.00015" | <b>26011-010MB</b> |
| 25-50mm/1-2"  | 0.01mm/0.0001" | 0.004mm/0.00015" | <b>26011-020MB</b> |
| 50-75mm/2-3"  | 0.01mm/0.0001" | 0.005mm/0.0002"  | <b>26011-030MB</b> |
| 75-100mm/3-4" | 0.01mm/0.0001" | 0.005mm/0.0002"  | <b>26011-040MB</b> |

## Digital Tube Micrometer

### Features:

- Large LCD display
- Carbide measuring face, Painted frame
- For measuring wall thickness of various tubes



| Range       | Resolution       | Accuracy         | Code No.          |
|-------------|------------------|------------------|-------------------|
| 0-25mm/0-1" | 0.001mm/0.00005" | 0.003mm/0.00015" | <b>26014-010A</b> |

## Digital Tube Micrometer

### Features:

- Large LCD display
- Carbide measuring face, Painted frame
- For measuring wall thickness of various tubes
- With data output port (DCB-01, DWB-01)
- Built-in wireless data transmission (optional)



| Range       | Resolution       | Accuracy         | Code No.          |
|-------------|------------------|------------------|-------------------|
| 0-25mm/0-1" | 0.001mm/0.00005" | 0.003mm/0.00015" | <b>26014-010B</b> |

## Mechanical Tube Micrometer

### Features:

- Carbide measuring face, Painted frame
- For measuring wall thickness of various tubes



| Range       | Resolution     | Accuracy         | Code No.           |
|-------------|----------------|------------------|--------------------|
| 0-25mm/0-1" | 0.01mm/0.0001" | 0.004mm/0.00015" | <b>26014-010MB</b> |

## Digital Tube Micrometer



### Features:

- Large LCD display
- Carbide measuring face, Painted frame
- For measuring wall thickness of various tubes
- With data output port (DCB-01, DWB-01)
- Built-in wireless data transmission (optional)



| Range         | Resolution       | Accuracy         | Code No.          |
|---------------|------------------|------------------|-------------------|
| 0-25mm/0-1"   | 0.001mm/0.00005" | 0.003mm/0.0001"  | <b>26011-011B</b> |
| 25-50mm/1-2"  | 0.001mm/0.00005" | 0.003mm/0.0001"  | <b>26011-021B</b> |
| 50-75mm/2-3"  | 0.001mm/0.00005" | 0.004mm/0.00015" | <b>26011-031B</b> |
| 75-100mm/3-4" | 0.001mm/0.00005" | 0.004mm/0.00015" | <b>26011-041B</b> |

## Mechanical Tube Micrometer

### Features:

- Carbide measuring face, Painted frame
- For measuring wall thickness of various tubes



| Range         | Resolution     | Accuracy         | Code No.           |
|---------------|----------------|------------------|--------------------|
| 0-25mm/0-1"   | 0.01mm/0.0001" | 0.004mm/0.00015" | <b>26011-011MB</b> |
| 25-50mm/1-2"  | 0.01mm/0.0001" | 0.004mm/0.00015" | <b>26011-021MB</b> |
| 50-75mm/2-3"  | 0.01mm/0.0001" | 0.005mm/0.0002"  | <b>26011-031MB</b> |
| 75-100mm/3-4" | 0.01mm/0.0001" | 0.005mm/0.0002"  | <b>26011-041MB</b> |

## Double Points Digital Micrometer



### Features:

- Large LCD display
- Pointed spindle and anvil for measuring the web thickness of drills, small grooves, key ways and other hard to reach places
- Tapered for easier access to difficult areas
- With data output port (DCB-01, DWB-01) (Type B only)
- Built-in wireless data transmission (optional, Type B only)



**Type A**



**Type B**

| Range         | Resolution       | Accuracy         | Code No.         |
|---------------|------------------|------------------|------------------|
| 0-25mm/0-1"   | 0.001mm/0.00005" | 0.003mm/0.0001"  | <b>26012-010</b> |
| 25-50mm/1-2"  | 0.001mm/0.00005" | 0.004mm/0.00015" | <b>26012-020</b> |
| 50-75mm/2-3"  | 0.001mm/0.00005" | 0.004mm/0.00015" | <b>26012-030</b> |
| 75-100mm/3-4" | 0.001mm/0.00005" | 0.005mm/0.0002"  | <b>26012-040</b> |

## Mechanical Tube Micrometer

### Features:

- Pointed spindle and anvil for measuring the web thickness of drills, small grooves, key ways and other hard to reach places
- Tapered for easier access to difficult areas



| Range         | Resolution     | Accuracy         | Code No.           |
|---------------|----------------|------------------|--------------------|
| 0-25mm/0-1"   | 0.01mm/0.0001" | 0.004mm/0.00015" | <b>26012-010MA</b> |
| 25-50mm/1-2"  | 0.01mm/0.0001" | 0.004mm/0.00015" | <b>26012-020MA</b> |
| 50-75mm/2-3"  | 0.01mm/0.0001" | 0.005mm/0.0002"  | <b>26012-030MA</b> |
| 75-100mm/3-4" | 0.01mm/0.0001" | 0.005mm/0.0002"  | <b>26012-040MA</b> |

## Single Point Digital Micrometer



### Features:

- Large LCD display
- Carbide measuring face, Painted frame
- For measuring the depth of grooves of brake systems
- With data output port (DCB-01, DWB-01) (Type B only)
- Built-in wireless data transmission (optional, Type B only)



**Type A**



**Type B**

| Range         | Resolution       | Accuracy         | Code No.         |
|---------------|------------------|------------------|------------------|
| 0-20mm/0-0.8" | 0.001mm/0.00005" | 0.003mm/0.00015" | <b>26013-010</b> |

## Single Point Mechanical Micrometer

### Features:

- For measuring the depth of grooves of brake systems
- Carbide measuring face, painted frame



| Range         | Resolution     | Accuracy         | Code No.           |
|---------------|----------------|------------------|--------------------|
| 0-25mm/0-1"   | 0.01mm/0.0001" | 0.004mm/0.00015" | <b>26013-010MB</b> |
| 25-50mm/1-2"  | 0.01mm/0.0001" | 0.004mm/0.00015" | <b>26013-010MB</b> |
| 50-75mm/2-3"  | 0.01mm/0.0001" | 0.005mm/0.0002"  | <b>26013-010MB</b> |
| 75-100mm/3-4" | 0.01mm/0.0001" | 0.005mm/0.0002"  | <b>26013-010MB</b> |

## Spline Digital Micrometer



### Features:

- Large LCD display
- Carbide measuring face, painted frame
- With data output port (DCB-01, DWB-01) (Type B only)
- Built-in wireless data transmission (optional, Type B only)



**Type A**



**Type B**

| Range        | Resolution       | Accuracy          | Code No.         |
|--------------|------------------|-------------------|------------------|
| 0-25mm/0-1"  | 0.001mm/0.00005" | ±0.003mm/0.00015" | <b>26015-010</b> |
| 25-50mm/1-2" | 0.001mm/0.00005" | ±0.003mm/0.00015" | <b>26015-020</b> |
| 50-75mm/2-3" | 0.001mm/0.00005" | ±0.004mm/0.00015" | <b>26015-030</b> |

## Spline Mechanical Micrometer

### Features:

- Carbide measuring face, painted frame



| Range         | Resolution     | Accuracy         | Code No.           |
|---------------|----------------|------------------|--------------------|
| 0-25mm/0-1"   | 0.01mm/0.0001" | 0.004mm/0.00015" | <b>26015-010MA</b> |
| 25-50mm/1-2"  | 0.01mm/0.0001" | 0.004mm/0.00015" | <b>26015-020MA</b> |
| 50-75mm/2-3"  | 0.01mm/0.0001" | 0.005mm/0.0002"  | <b>26015-030MA</b> |
| 75-100mm/3-4" | 0.01mm/0.0001" | 0.005mm/0.0002"  | <b>26015-040MA</b> |

## Disk Micrometer

### Features:

- Non-rotating spindle
- For measuring gears and paper thickness



| Range          | Resolution       | Accuracy        | Metric           | Inch             |
|----------------|------------------|-----------------|------------------|------------------|
| 0-25mm/0-1"    | 0.001mm/0.00005" | 0.004mm/0.0001" | <b>26016-010</b> | <b>26026-010</b> |
| 25-50mm/1-2"   | 0.001mm/0.00005" | 0.004mm/0.0002" | <b>26016-020</b> | <b>26026-020</b> |
| 50-75mm/2-3"   | 0.001mm/0.00005" | 0.005mm/0.0002" | <b>26016-030</b> | <b>26026-030</b> |
| 75-100mm/3-4"  | 0.001mm/0.00005" | 0.005mm/0.0002" | <b>26016-040</b> | <b>26026-040</b> |
| 100-125mm/4-5" | 0.001mm/0.00005" | 0.006mm/0.0002" | <b>26016-050</b> | <b>26026-050</b> |
| 125-150mm/5-6" | 0.001mm/0.00005" | 0.006mm/0.0002" | <b>26016-060</b> | <b>26026-060</b> |

## Disk Micrometer

### Features:

- For measuring gears and paper thickness
- With data output port (DCB-01, DWB-01)
- Built-in wireless data transmission (optional)



| Range        | Resolution       | Accuracy         | Code No.          |
|--------------|------------------|------------------|-------------------|
| 0-25mm/0-1"  | 0.001mm/0.00005" | 0.004mm/0.00015" | <b>26016-010B</b> |
| 25-50mm/1-2" | 0.001mm/0.00005" | 0.004mm/0.00015" | <b>26016-020B</b> |
| 50-75mm/2-3" | 0.001mm/0.00005" | 0.005mm/0.0002"  | <b>26016-030B</b> |

## Disk Mechanical Micrometer

### Features:

- For measuring gears and paper thickness



| Range        | Resolution     | Accuracy         | Code No.           |
|--------------|----------------|------------------|--------------------|
| 0-25mm/0-1"  | 0.01mm/0.0001" | 0.004mm/0.00015" | <b>26016-010MA</b> |
| 25-50mm/1-2" | 0.01mm/0.0001" | 0.004mm/0.00015" | <b>26016-020MA</b> |
| 50-75mm/2-3" | 0.01mm/0.0001" | 0.005mm/0.0002"  | <b>26016-030MA</b> |

## Blade Micrometer

### Features:

- Non-rotating spindle
- Inch/Metric conversion



| Range          | Resolution       | Accuracy         | Metric           | Inch             |
|----------------|------------------|------------------|------------------|------------------|
| 0-25mm/0-1"    | 0.001mm/0.00005" | ±0.002mm/0.0001" | <b>26017-010</b> | <b>26027-010</b> |
| 25-50mm/1-2"   | 0.001mm/0.00005" | ±0.002mm/0.0002" | <b>26017-020</b> | <b>26027-020</b> |
| 50-75mm/2-3"   | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>26017-030</b> | <b>26027-030</b> |
| 75-100mm/3-4"  | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>26017-040</b> | <b>26027-040</b> |
| 100-125mm/4-5" | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>26017-050</b> | <b>26027-050</b> |
| 125-150mm/5-6" | 0.001mm/0.00005" | ±0.003mm/0.0002" | <b>26017-060</b> | <b>26027-060</b> |

## Blade Micrometer

### Features:

- With data output port (DCB-01, DWB-01)
- Built-in wireless data transmission (optional)



| Range        | Resolution       | Accuracy         | Code No.          |
|--------------|------------------|------------------|-------------------|
| 0-25mm/0-1"  | 0.001mm/0.00005" | 0.004mm/0.00015" | <b>26017-010B</b> |
| 25-50mm/1-2" | 0.001mm/0.00005" | 0.004mm/0.00015" | <b>26017-020B</b> |
| 50-75mm/2-3" | 0.001mm/0.00005" | 0.005mm/0.0002"  | <b>26017-030B</b> |

## Blade Mechanical Micrometer

### Features:

- For measuring gears and paper thickness



| Range        | Resolution     | Accuracy         | Code No.           |
|--------------|----------------|------------------|--------------------|
| 0-25mm/0-1"  | 0.01mm/0.0001" | 0.004mm/0.00015" | <b>26017-010MA</b> |
| 25-50mm/1-2" | 0.01mm/0.0001" | 0.004mm/0.00015" | <b>26017-020MA</b> |
| 50-75mm/2-3" | 0.01mm/0.0001" | 0.005mm/0.0002"  | <b>26017-030MA</b> |

## Digital V-Anvil Micrometer

### Features:

- Measuring diameter of cylinder with an odd number flutes, such as taps, reamers, end mills
- Carbide measuring faces
- IP65 protection level. Criterion DIN40050/IEC529
- Resolution: 0.001mm / 0.00005"



| Range               | Accuracy | Code No.<br>Metric | Code No.<br>Inch |
|---------------------|----------|--------------------|------------------|
| <b>3 Flutes</b>     |          |                    |                  |
| 1-15mm / 0.04-0.6"  | ±0.002mm | <b>26210-310</b>   | <b>26220-310</b> |
| 5-20mm / 0.2-0.8"   | ±0.002mm | <b>26210-320</b>   | <b>26220-320</b> |
| 20-35mm / 0.8-1.4"  | ±0.003mm | <b>26210-330</b>   | <b>26220-330</b> |
| 35-50mm / 1.4-2.0"  | ±0.003mm | <b>26210-340</b>   | <b>26220-340</b> |
| 50-65mm / 2.0-2.6"  | ±0.003mm | <b>26210-350</b>   | <b>26220-350</b> |
| 65-80mm / 2.6-3.2"  | ±0.003mm | <b>26210-360</b>   | <b>26220-360</b> |
| 80-95mm / 3.2-3.8"  | ±0.004mm | <b>26210-370</b>   | <b>26220-370</b> |
| 2.3-25mm / 0.09-1"  | ±0.002mm | <b>26211-310</b>   | <b>26221-310</b> |
| 25-50mm / 1-2"      | ±0.003mm | <b>26211-320</b>   | <b>26221-320</b> |
| <b>5 Flutes</b>     |          |                    |                  |
| 5-25mm / 0.2-1.0"   | ±0.002mm | <b>26210-510</b>   | <b>26220-510</b> |
| 25-45mm / 1.0-1.8"  | ±0.003mm | <b>26210-520</b>   | <b>26220-520</b> |
| 45-65mm / 1.8-2.6"  | ±0.003mm | <b>26210-530</b>   | <b>26220-530</b> |
| 65-85mm / 2.6-3.4"  | ±0.004mm | <b>26210-540</b>   | <b>26220-540</b> |
| 85-105mm / 3.4-4.2" | ±0.004mm | <b>26210-550</b>   | <b>26220-550</b> |
| <b>7 Flutes</b>     |          |                    |                  |
| 5-25mm / 0.2-1.0"   | ±0.002mm | <b>26210-710</b>   | <b>26220-710</b> |
| 25-45mm / 1.0-1.8"  | ±0.003mm | <b>26210-720</b>   | <b>26220-720</b> |
| 45-65mm / 1.8-2.6"  | ±0.003mm | <b>26210-730</b>   | <b>26220-730</b> |
| 65-85mm / 2.6-3.4"  | ±0.004mm | <b>26210-740</b>   | <b>26220-740</b> |

## V-Anvil Micrometer

### Features:

- Measuring diameter of cylinder with an odd number flutes, such as taps, reamers, end mills
- Carbide measuring faces
- Criterion DIN40050/IEC529
- Graduation: 0.01mm / 0.001"



| Range               | Accuracy | Code No.<br>Metric | Code No.<br>Inch |
|---------------------|----------|--------------------|------------------|
| <b>3 Flutes</b>     |          |                    |                  |
| 1-15mm / 0.04-0.6"  | 0.004mm  | <b>26010-310</b>   | <b>26020-310</b> |
| 5-20mm / 0.2-0.8"   | 0.004mm  | <b>26010-320</b>   | <b>26020-320</b> |
| 20-35mm / 0.8-1.4"  | 0.005mm  | <b>26010-330</b>   | <b>26020-330</b> |
| 35-50mm / 1.4-2.0"  | 0.005mm  | <b>26010-340</b>   | <b>26020-340</b> |
| 50-65mm / 2.0-2.6"  | 0.006mm  | <b>26010-350</b>   | <b>26020-350</b> |
| 65-80mm / 2.6-3.2"  | 0.006mm  | <b>26010-360</b>   | <b>26020-360</b> |
| 80-95mm / 3.2-3.8"  | 0.007mm  | <b>26010-370</b>   | <b>26020-370</b> |
| 2.3-25mm / 0.09-1"  | 0.004mm  | <b>26011-310</b>   | <b>26021-310</b> |
| 25-50mm / 1-2"      | 0.005mm  | <b>26011-320</b>   | <b>26021-320</b> |
| <b>5 Flutes</b>     |          |                    |                  |
| 5-25mm / 0.2-1.0"   | 0.004mm  | <b>26010-510</b>   | <b>26020-510</b> |
| 25-45mm / 1.0-1.8"  | 0.005mm  | <b>26010-520</b>   | <b>26020-520</b> |
| 45-65mm / 1.8-2.6"  | 0.006mm  | <b>26010-530</b>   | <b>26020-530</b> |
| 65-85mm / 2.6-3.4"  | 0.007mm  | <b>26010-540</b>   | <b>26020-540</b> |
| 85-105mm / 3.4-4.2" | 0.008mm  | <b>26010-550</b>   | <b>26020-550</b> |
| <b>7 Flutes</b>     |          |                    |                  |
| 5-25mm / 0.2-1.0"   | 0.004mm  | <b>26010-710</b>   | <b>26020-710</b> |
| 25-45mm / 1.0-1.8"  | 0.005mm  | <b>26010-720</b>   | <b>26020-720</b> |
| 45-65mm / 1.8-2.6"  | 0.006mm  | <b>26010-730</b>   | <b>26020-730</b> |
| 65-85mm / 2.6-3.4"  | 0.007mm  | <b>26010-740</b>   | <b>26020-740</b> |

## 2-Button Digital Micrometer Head

IP65

### Features:

- IP65 protection level
- Carbide tipped measuring face
- 12mm diameter mounting stem.
- Clamp nut is optional
- Spherical measuring face is optional



| Range       | Resolution       | Accuracy         | Metric Code No.   | Inch Code No.     |
|-------------|------------------|------------------|-------------------|-------------------|
| 0-25mm/0-1" | 0.001mm/0.00005" | 0.003mm/0.00015" | <b>21211-010H</b> | <b>21221-010H</b> |
| 0-50mm/0-2" | 0.001mm/0.00005" | 0.005mm/0.0002"  | <b>21211-020H</b> | <b>21221-020H</b> |

## 4-Button Digital Micrometer Head

### Features:

- Resolution: .00005" / 0.001mm
- Carbide tipped measuring face
- 10mm and 12mm mounting stem diameter optional.
- Thread stem and clamp nut are optional



| Range       | Resolution       | Accuracy         | Stem Diameter | Code No.          |
|-------------|------------------|------------------|---------------|-------------------|
| 0-25mm/0-1" | 0.001mm/0.00005" | 0.003mm/0.00015" | 10mm          | <b>21015-010H</b> |
| 0-25mm/0-1" | 0.001mm/0.00005" | 0.003mm/0.00015" | 12mm          | <b>21015-012H</b> |

## IP65 Digital Micrometer Head



### Features:

- IP65 protection level
- Carbide tipped measuring face
- 12mm mounting stem diameter, with clamp nut
- SPC data output port (DCB-02, DWB-02, DWB-05)
- Built-in Bluetooth data transmission is optional



| Range       | Resolution       | Accuracy         | Code No.          |
|-------------|------------------|------------------|-------------------|
| 0-25mm/0-1" | 0.001mm/0.00005" | 0.003mm/0.00015" | <b>21215-010H</b> |

## Digital Micrometer Head

### Features:

- Extra-large LCD readout
- Carbide tipped measuring face
- 12mm mounting stem diameter
- Spherical measuring face is optional



| Range       | Resolution       | Accuracy         | Code No.          |
|-------------|------------------|------------------|-------------------|
| 0-25mm/0-1" | 0.001mm/0.00005" | 0.003mm/0.00015" | <b>21012-010H</b> |

## 2-Button Digital Micrometer Head

IP65

### Features:

- IP65 protection level
- Carbide tipped measuring face
- 12mm diameter mounting stem. 9.5mm diameter mounting stem is optional
- With clamp nut
- Spherical measuring face is optional



| Range       | Resolution       | Accuracy         | Metric Code No.   | Inch Code No.     |
|-------------|------------------|------------------|-------------------|-------------------|
| 0-25mm/0-1" | 0.001mm/0.00005" | 0.003mm/0.00015" | <b>21212-010H</b> | <b>21222-010H</b> |
| 0-50mm/0-2" | 0.001mm/0.00005" | 0.005mm/0.0002"  | <b>21212-020H</b> | <b>21222-020H</b> |

## Depth Micrometer

### Features:

- Run through interchangeable rods
- Resolution 0.01mm (Metric) / 0.001" (Inch)
- Flat end
- Ratchet stop



### Base width = 102mm

| Range   | Accuracy | Range | Accuracy | Rods Qty. | Metric    | Inch      |
|---------|----------|-------|----------|-----------|-----------|-----------|
| 0-150mm | 0.005mm  | 0-6"  | ±.0002"  | 6         | 25012-150 | 25022-150 |

## Digital Depth Micrometer

### Features:

- Interchangeable rods
- Resolution 0.001mm / 0.00005"
- Flat end
- With data output port (DCB-01, DWB-01)
- Built-in wireless data transmission (optional)



### Base width = 102mm

| Range   | Accuracy | Range | Accuracy | Rods Qty. | Metric    | Inch      |
|---------|----------|-------|----------|-----------|-----------|-----------|
| 0-150mm | 0.005mm  | 0-6"  | ±.0002"  | 6         | 25212-150 | 25222-150 |

## Depth Micrometer

### Features:

- Run through interchangeable rods, provide wide measuring range.
- Resolution 0.01mm (Metric) / 0.001" (Inch)
- Micrometers doesn't need be reset after precision rods are interchanged
- Flat end (Spherical end is optional)
- Ratchet stop



### Base width = 63.0mm

| Metric  |          | Inch  |          |           | Code No.  |           |
|---------|----------|-------|----------|-----------|-----------|-----------|
| Range   | Accuracy | Range | Accuracy | Rods Qty. | Metric    | Inch      |
| 0-25mm  | ±0.004mm | 0-1"  | ±.00016" | 1         | 25010-020 | 25020-020 |
| 0-50mm  | ±0.004mm | 0-2"  | ±.00016" | 2         | 25010-050 | 25020-050 |
| 0-100mm | ±0.005mm | 0-4"  | ±.00020" | 4         | 25010-100 | 25020-100 |
| 0-150mm | ±0.005mm | 0-6"  | ±.00020" | 6         | 25010-150 | 25020-150 |
| 0-200mm | ±0.006mm | 0-8"  | ±.00024" | 8         | 25010-200 | 25020-200 |
| 0-300mm | ±0.007mm | 0-12" | ±.00028" | 12        | 25010-300 | 25020-300 |

### Base width = 101.5mm

| Metric  |          | Inch  |          |           | Code No.  |           |
|---------|----------|-------|----------|-----------|-----------|-----------|
| Range   | Accuracy | Range | Accuracy | Rods Qty. | Metric    | Inch      |
| 0-25mm  | ±0.004mm | 0-1"  | ±.00016" | 1         | 25011-020 | 25021-020 |
| 0-50mm  | ±0.004mm | 0-2"  | ±.00016" | 2         | 25011-050 | 25021-050 |
| 0-100mm | ±0.005mm | 0-4"  | ±.00020" | 4         | 25011-100 | 25021-100 |
| 0-150mm | ±0.005mm | 0-6"  | ±.00020" | 6         | 25011-150 | 25021-150 |
| 0-200mm | ±0.006mm | 0-8"  | ±.00024" | 8         | 25011-200 | 25021-200 |
| 0-300mm | ±0.007mm | 0-12" | ±.00028" | 12        | 25011-300 | 25021-300 |

## IP65 Digital Depth Micrometer

IP65

### Features:

- Interchangeable rods provide wide measuring range.
- Resolution 0.001mm /0.0005"
- Micrometers doesn't not need be reset after precision rods are interchanged
- Flat end (Spherical end is optional)
- Ratchet stop and ratchet thimble are optional
- IP65 production level



### Base width = 63.0mm

| Metric  |          | Inch  |          |           | Code No.  |           |
|---------|----------|-------|----------|-----------|-----------|-----------|
| Range   | Accuracy | Range | Accuracy | Rods Qty. | Metric    | Inch      |
| 0-25mm  | ±0.004mm | 0-1"  | ±.00016" | 1         | 25210-020 | 25220-020 |
| 0-50mm  | ±0.004mm | 0-2"  | ±.00016" | 2         | 25210-050 | 25220-050 |
| 0-100mm | ±0.005mm | 0-4"  | ±.00020" | 4         | 25210-100 | 25220-100 |
| 0-150mm | ±0.005mm | 0-6"  | ±.00020" | 6         | 25210-150 | 25220-150 |
| 0-200mm | ±0.006mm | 0-8"  | ±.00024" | 8         | 25210-200 | 25220-200 |
| 0-300mm | ±0.007mm | 0-12" | ±.00028" | 12        | 25210-300 | 25220-300 |

### Base width = 101.5mm

| Metric  |          | Inch  |          |           | Code No.  |           |
|---------|----------|-------|----------|-----------|-----------|-----------|
| Range   | Accuracy | Range | Accuracy | Rods Qty. | Metric    | Inch      |
| 0-25mm  | ±0.004mm | 0-1"  | ±.00016" | 1         | 25211-020 | 25221-020 |
| 0-50mm  | ±0.004mm | 0-2"  | ±.00016" | 2         | 25211-050 | 25221-050 |
| 0-100mm | ±0.005mm | 0-4"  | ±.00020" | 4         | 25211-100 | 25221-100 |
| 0-150mm | ±0.005mm | 0-6"  | ±.00020" | 6         | 25211-150 | 25221-150 |
| 0-200mm | ±0.006mm | 0-8"  | ±.00024" | 8         | 25211-200 | 25221-200 |
| 0-300mm | ±0.007mm | 0-12" | ±.00028" | 12        | 25211-300 | 25221-300 |

## Digital Inside Micrometer

IP65

### Features

- For measuring various inside dimensions
- IP65 protection level
- Carbide tipped measuring faces
- 5-30mm/0.2-1.2", 25-50/1-2" micrometers furnished with setting ring



| Range           | Resolution       | Accuracy          | Metric Code No.  | Inch Code No.    |
|-----------------|------------------|-------------------|------------------|------------------|
| 5-30mm/0.2-1.2" | 0.001mm/0.00005" | ±0.003mm/0.00015" | <b>24011-010</b> | <b>24021-010</b> |
| 25-50mm/1-2"    | 0.001mm/0.00005" | ±0.003mm/0.00015" | <b>24011-020</b> | <b>24021-020</b> |
| 50-75mm/2-3"    | 0.001mm/0.00005" | ±0.004mm/0.00015" | <b>24011-030</b> | <b>24021-030</b> |
| 75-100mm/3-4"   | 0.001mm/0.00005" | ±0.004mm/0.00015" | <b>24011-040</b> | <b>24021-040</b> |
| 100-125mm/4-5"  | 0.001mm/0.00005" | ±0.005mm/0.0002"  | <b>24011-050</b> | <b>24021-050</b> |
| 125-150mm/5-6"  | 0.001mm/0.00005" | ±0.005mm/0.0002"  | <b>24011-060</b> | <b>24021-060</b> |

## Mechanical Inside Micrometer

### Features

- For measuring various inside dimensions
- Carbide tipped measuring faces
- 5-30mm/0.2-1.2", 25-50mm/1-2" micrometers furnished with setting ring
- Ratchet stop



| Range           | Resolution    | Accuracy          | Metric Code No.  | Inch Code No.    |
|-----------------|---------------|-------------------|------------------|------------------|
| 5-30mm/0.2-1.2" | 0.01mm/0.001" | ±0.005mm/0.0002"  | <b>25211-010</b> | <b>25221-010</b> |
| 25-50mm/1-2"    | 0.01mm/0.001" | ±0.006mm/0.00024" | <b>25211-020</b> | <b>25221-020</b> |
| 50-75mm/2-3"    | 0.01mm/0.001" | ±0.007mm/0.00028" | <b>25211-030</b> | <b>25221-030</b> |
| 75-100mm/3-4"   | 0.01mm/0.001" | ±0.008mm/0.00032" | <b>25211-040</b> | <b>25221-040</b> |
| 100-125mm/4-5"  | 0.01mm/0.001" | ±0.009mm/0.0036"  | <b>25211-050</b> | <b>25221-050</b> |
| 125-150mm/5-6"  | 0.01mm/0.001" | ±0.009mm/0.0036"  | <b>25211-060</b> | <b>25221-060</b> |

## Digital Inside Micrometer

### Features

- For measuring various inside dimensions
- IP65 protection level
- Carbide tipped measuring faces
- 5-30mm/0.2-1.2", 25-50/1-2" micrometers furnished with setting ring
- Built-in rechargeable lithium battery
- SPC data output port. Built-in Bluetooth data transmission is optional



| Range           | Resolution       | Accuracy          | Metric Code No.  | Inch Code No.    |
|-----------------|------------------|-------------------|------------------|------------------|
| 5-30mm/0.2-1.2" | 0.001mm/0.00005" | ±0.005mm/0.0002"  | <b>24012-010</b> | <b>24012-010</b> |
| 25-50mm/1-2"    | 0.001mm/0.00005" | ±0.006mm/0.00025" | <b>24012-020</b> | <b>24012-020</b> |
| 50-75mm/2-3"    | 0.001mm/0.00005" | ±0.007mm/0.0003"  | <b>24012-030</b> | <b>24012-030</b> |
| 75-100mm/3-4"   | 0.001mm/0.00005" | ±0.008mm/0.0003"  | <b>24012-040</b> | <b>24012-040</b> |
| 100-125mm/3-4"  | 0.001mm/0.00005" | ±0.009mm/0.00035" | <b>24012-050</b> | <b>24012-050</b> |
| 125-150mm/4-5"  | 0.001mm/0.00005" | ±0.009mm/0.00035" | <b>24012-060</b> | <b>24012-060</b> |

## Mechanical Inside Micrometer

### Features

- For measuring various inside dimensions
- Carbide tipped measuring faces
- 5-30mm/0.2-1.2", 25-50/1-2" micrometers furnished with setting ring
- Ratchet stop



| Range           | Resolution    | Accuracy          | Metric Code No.  | Inch Code No.    |
|-----------------|---------------|-------------------|------------------|------------------|
| 5-30mm/0.2-1.2" | 0.01mm/0.001" | ±0.005mm/0.0002"  | <b>25212-010</b> | <b>25212-010</b> |
| 25-50mm/1-2"    | 0.01mm/0.001" | ±0.006mm/0.00025" | <b>25212-020</b> | <b>25212-020</b> |
| 50-75mm/2-3"    | 0.01mm/0.001" | ±0.007mm/0.0003"  | <b>25212-030</b> | <b>25212-030</b> |
| 75-100mm/3-4"   | 0.01mm/0.001" | ±0.008mm/0.0003"  | <b>25212-040</b> | <b>25212-040</b> |
| 100-125mm/3-4"  | 0.01mm/0.001" | ±0.009mm/0.00035" | <b>25212-050</b> | <b>25212-050</b> |
| 125-150mm/4-5"  | 0.01mm/0.001" | ±0.009mm/0.00035" | <b>25212-060</b> | <b>25212-060</b> |

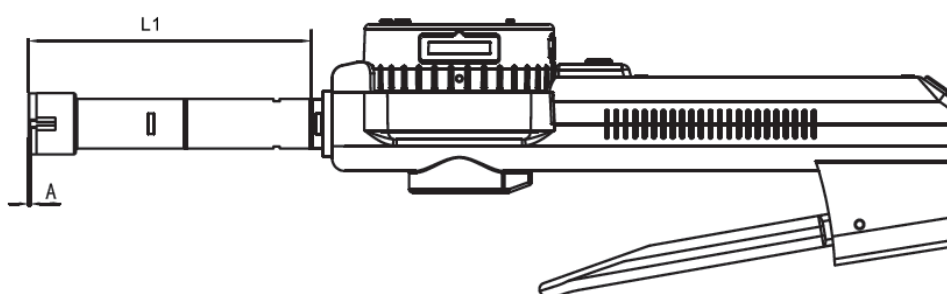
## Grip 3 Points Internal Micrometer (6-100mm)

### Features:

- Absolute capacitive measurement system
- Resolution: 0.001mm / 0.00005"
- Close to the bottom of blind hole. Can measure deep hole with extension rod
- Carbide-tipped contact points (12mm above)
- Display can be rotated within 330 degree for easy reading
- Setting ring for origin point setting is optional
- Extension rod is optional
- With data output port (DCB-01, DWB-01)
- Built-in bluetooth for data transmission is optional



| Range    | Accuracy | Setting Ring (optional) | L1    | A     | Extension Rod (optional) | Code No.  |
|----------|----------|-------------------------|-------|-------|--------------------------|-----------|
| 6-8mm    | 0.004mm  | 8mm                     | 55mm  | 1.0mm | 100mm                    | 41003-008 |
| 8-10mm   | 0.004mm  | 8mm                     | 55mm  | 1.5mm | 100mm                    | 41003-010 |
| 10-12mm  | 0.004mm  | 12mm                    | 55mm  | 1.5mm | 100mm                    | 41003-012 |
| 12-16mm  | 0.004mm  | 16mm                    | 80mm  | 0.5mm | 150mm                    | 41003-016 |
| 16-20mm  | 0.004mm  | 16mm                    | 80mm  | 0.5mm | 150mm                    | 41003-020 |
| 20-25mm  | 0.004mm  | 25mm                    | 90mm  | 0.5mm | 150mm                    | 41003-025 |
| 25-30mm  | 0.004mm  | 25mm                    | 90mm  | 0.5mm | 150mm                    | 41003-030 |
| 30-40mm  | 0.004mm  | 40mm                    | 105mm | 0.5mm | 150mm                    | 41003-040 |
| 40-50mm  | 0.004mm  | 40mm                    | 105mm | 0.5mm | 150mm                    | 41003-050 |
| 50-63mm  | 0.005mm  | 62mm                    | 127mm | 0.5mm | 150mm                    | 41003-063 |
| 62-75mm  | 0.005mm  | 62mm                    | 127mm | 0.5mm | 150mm                    | 41003-075 |
| 75-88mm  | 0.005mm  | 87mm                    | 127mm | 0.5mm | 150mm                    | 41003-088 |
| 87-100mm | 0.005mm  | 87mm                    | 127mm | 0.5mm | 150mm                    | 41003-100 |



## Pistol Grip 3 Points Internal Micrometer (6-300mm)



### Features:

- Absolute capacitive measurement system
- Resolution: 0.001mm / 0.00005"
- Close to the bottom of blind hole. Can measure deep hole with extension rod
- Carbide-tipped contact points (12mm above)
- Display can be rotated by 90 degree
- Setting ring for origin point setting is optional
- Extension rod is optional
- With data output port (DCB-01, DWB-01)
- Built-in bluetooth for data transmission is optional



| Range     | Accuracy | Setting Ring (optional) | L1    | A     | Extension Rod (optional) | Code No.  |
|-----------|----------|-------------------------|-------|-------|--------------------------|-----------|
| 6-8mm     | 0.004mm  | 8mm                     | 55mm  | 1.0mm | 100mm                    | 41002-008 |
| 8-10mm    | 0.004mm  | 8mm                     | 55mm  | 1.5mm | 100mm                    | 41002-010 |
| 10-12mm   | 0.004mm  | 12mm                    | 55mm  | 1.5mm | 100mm                    | 41002-012 |
| 12-16mm   | 0.004mm  | 16mm                    | 80mm  | 0.5mm | 150mm                    | 41002-016 |
| 16-20mm   | 0.004mm  | 16mm                    | 80mm  | 0.5mm | 150mm                    | 41002-020 |
| 20-25mm   | 0.004mm  | 25mm                    | 90mm  | 0.5mm | 150mm                    | 41002-025 |
| 25-30mm   | 0.004mm  | 25mm                    | 90mm  | 0.5mm | 150mm                    | 41002-030 |
| 30-40mm   | 0.004mm  | 40mm                    | 105mm | 0.5mm | 150mm                    | 41002-040 |
| 40-50mm   | 0.004mm  | 40mm                    | 105mm | 0.5mm | 150mm                    | 41002-050 |
| 50-63mm   | 0.005mm  | 62mm                    | 127mm | 0.5mm | 150mm                    | 41002-063 |
| 62-75mm   | 0.005mm  | 62mm                    | 127mm | 0.5mm | 150mm                    | 41002-075 |
| 75-88mm   | 0.005mm  | 87mm                    | 127mm | 0.5mm | 150mm                    | 41002-088 |
| 87-100mm  | 0.005mm  | 87mm                    | 127mm | 0.5mm | 150mm                    | 41002-100 |
| 100-125mm | 0.005mm  | 125mm                   | 156mm | 1.0mm | 150mm                    | 41002-125 |
| 125-150mm | 0.005mm  | 125mm                   | 156mm | 1.0mm | 150mm                    | 41002-150 |
| 150-175mm | 0.006mm  | 175mm                   | 156mm | 1.0mm | 150mm                    | 41002-175 |
| 175-200mm | 0.006mm  | 175mm                   | 156mm | 1.0mm | 150mm                    | 41002-200 |
| 200-225mm | 0.007mm  | 225mm                   | 156mm | 1.0mm | 150mm                    | 41002-225 |
| 225-250mm | 0.007mm  | 225mm                   | 156mm | 1.0mm | 150mm                    | 41002-250 |
| 250-275mm | 0.008mm  | 275mm                   | 156mm | 1.0mm | 150mm                    | 41002-275 |
| 275-300mm | 0.008mm  | 275mm                   | 156mm | 1.0mm | 150mm                    | 41002-300 |

## Pistol Grip 3 Points Internal Micrometer (6-100mm)

### Features:

- Single hand operation, fit for both hands;
- Measurement can be taken closer to the bottom of blind hole, and can measure deep hole with extension rod
- Carbide-tipped contact points
- Supplier with setting rings and digital indicator



| Range         | Accuracy | Setting Rings | Extension Rods | Code No.         |
|---------------|----------|---------------|----------------|------------------|
| <b>Metric</b> |          |               |                |                  |
| 6-8mm         | 0.004mm  | 6mm           | 100mm          | <b>41112-008</b> |
| 8-10mm        | 0.004mm  | 8mm           | 100mm          | <b>41112-010</b> |
| 10-12mm       | 0.004mm  | 10mm          | 100mm          | <b>41112-012</b> |
| 12-16mm       | 0.004mm  | 16mm          | 150mm          | <b>41112-016</b> |
| 16-20mm       | 0.004mm  | 16mm          | 150mm          | <b>41112-020</b> |
| 20-25mm       | 0.004mm  | 25mm          | 150mm          | <b>41112-025</b> |
| 25-30mm       | 0.004mm  | 25mm          | 150mm          | <b>41112-030</b> |
| 30-40mm       | 0.004mm  | 40mm          | 150mm          | <b>41112-040</b> |
| 40-50mm       | 0.005mm  | 40mm          | 150mm          | <b>41112-050</b> |
| 50-63mm       | 0.005mm  | 62mm          | 150mm          | <b>41112-063</b> |
| 62-75mm       | 0.005mm  | 62mm          | 150mm          | <b>41112-075</b> |
| 75-88mm       | 0.005mm  | 87mm          | 150mm          | <b>41112-088</b> |
| 87-100mm      | 0.005mm  | 87mm          | 150mm          | <b>41112-100</b> |
| <b>Inch</b>   |          |               |                |                  |
| 0.275-0.35"   | 0.00016" | 0.275"        | 4"             | <b>41122-003</b> |
| 0.35-0.425"   | 0.00016" | 0.35"         | 4"             | <b>41122-004</b> |
| 0.425-0.5"    | 0.00016" | 0.5"          | 4"             | <b>41122-005</b> |
| 0.5-0.65"     | 0.00016" | 0.65"         | 6"             | <b>41122-006</b> |
| 0.65-0.8"     | 0.00016" | 0.65"         | 6"             | <b>41122-008</b> |
| 0.8-1"        | 0.00016" | 1"            | 6"             | <b>41122-010</b> |
| 1-1.2"        | 0.00016" | 1"            | 6"             | <b>41122-012</b> |
| 1.2-1.6"      | 0.00016" | 1.6"          | 6"             | <b>41122-016</b> |
| 1.6-2"        | 0.0002"  | 1.6"          | 6"             | <b>41122-020</b> |
| 2-2.5"        | 0.0002"  | 2.5"          | 6"             | <b>41122-025</b> |
| 2.5-3"        | 0.0002"  | 2.5"          | 6"             | <b>41122-030</b> |
| 3-3.5"        | 0.0002"  | 3.5"          | 6"             | <b>41122-035</b> |
| 3.5-4"        | 0.0002"  | 3.5"          | 6"             | <b>41122-040</b> |

## Digital 3 Points Internal Micrometer (6-300mm)



### Features:

- Resolution: 0.001mm / 0.00005"
- Measurement can be taken close to the bottom of blind hole
- Carbide-tipped contact points (for over 12mm)
- SPC data output function
- Setting rings for origin point setting are optional
- Extension rod is optional
- Built in wireless transmission function is optional
- Measuring range up to 300mm



| Range     | Accuracy           | Setting Ring (optional) | L1    | A     | Extension Rod (optional) | Code No.  |
|-----------|--------------------|-------------------------|-------|-------|--------------------------|-----------|
| 6-8mm     | 0.004mm / 0.00015" | 8mm                     | 55mm  | 1.0mm | 100mm                    | 41001-008 |
| 8-10mm    | 0.004mm / 0.00015" | 8mm                     | 55mm  | 1.5mm | 100mm                    | 41001-010 |
| 10-12mm   | 0.004mm / 0.00015" | 12mm                    | 55mm  | 1.5mm | 100mm                    | 41001-012 |
| 12-16mm   | 0.004mm / 0.00015" | 16mm                    | 80mm  | 0.5mm | 150mm                    | 41001-016 |
| 16-20mm   | 0.004mm / 0.00015" | 16mm                    | 80mm  | 0.5mm | 150mm                    | 41001-020 |
| 20-25mm   | 0.004mm / 0.00015" | 25mm                    | 90mm  | 0.5mm | 150mm                    | 41001-025 |
| 25-30mm   | 0.004mm / 0.00015" | 25mm                    | 90mm  | 0.5mm | 150mm                    | 41001-030 |
| 30-40mm   | 0.004mm / 0.00015" | 40mm                    | 105mm | 0.5mm | 150mm                    | 41001-040 |
| 40-50mm   | 0.004mm / 0.00015" | 40mm                    | 105mm | 0.5mm | 150mm                    | 41001-050 |
| 50-63mm   | 0.005mm / 0.0002"  | 62mm                    | 127mm | 0.5mm | 150mm                    | 41001-063 |
| 62-75mm   | 0.005mm / 0.0002"  | 62mm                    | 127mm | 0.5mm | 150mm                    | 41001-075 |
| 75-88mm   | 0.005mm / 0.0002"  | 87mm                    | 127mm | 0.5mm | 150mm                    | 41001-088 |
| 87-100mm  | 0.005mm / 0.0002"  | 87mm                    | 127mm | 0.5mm | 150mm                    | 41001-100 |
| 100-125mm | 0.005mm / 0.0002"  | 125mm                   | 156mm | 1.0mm | 150mm                    | 41001-125 |
| 125-150mm | 0.005mm / 0.0002"  | 125mm                   | 156mm | 1.0mm | 150mm                    | 41001-150 |

### Set

| Range               | Set Ring   | Extension Rod | Code No.  |
|---------------------|------------|---------------|-----------|
| 6-12mm / 0.275-0.5" | 8mm, 12mm  | 100mm         | 41001-603 |
| 12-20mm / 0.5-0.8"  | 16mm       | 150mm         | 41001-122 |
| 20-50mm / 0.8-2"    | 25mm, 40mm | 150mm         | 41001-204 |
| 50-100mm / 2-4"     | 62mm, 87mm | 150mm         | 41001-504 |

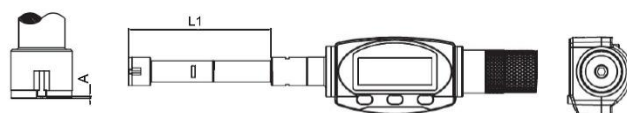
## IP65 Digital 3 Points Internal Micrometer (6-300mm)



IP65

### Features:

- Resolution: 0.001mm / 0.00005"
- IP65 protection Level
- Close to the bottom of blind hole. Can measure deep hole with extension rod
- Carbide-tipped contact points (12mm above)
- Setting ring for origin point setting is optional
- Extension rod is optional
- Built-in bluetooth for data transmission is optional



| Range     | Accuracy | Setting Ring (optional) | L1    | A     | Extension Rod (optional) | Code No.  |
|-----------|----------|-------------------------|-------|-------|--------------------------|-----------|
| 6-8mm     | 0.004mm  | 8mm                     | 55mm  | 1.0mm | 100mm                    | 41112-008 |
| 8-10mm    | 0.004mm  | 8mm                     | 55mm  | 1.5mm | 100mm                    | 41112-010 |
| 10-12mm   | 0.004mm  | 12mm                    | 55mm  | 1.5mm | 100mm                    | 41112-012 |
| 12-16mm   | 0.004mm  | 16mm                    | 80mm  | 0.5mm | 150mm                    | 41112-016 |
| 16-20mm   | 0.004mm  | 16mm                    | 80mm  | 0.5mm | 150mm                    | 41112-020 |
| 20-25mm   | 0.004mm  | 25mm                    | 90mm  | 0.5mm | 150mm                    | 41112-025 |
| 25-30mm   | 0.004mm  | 25mm                    | 90mm  | 0.5mm | 150mm                    | 41112-030 |
| 30-40mm   | 0.004mm  | 40mm                    | 105mm | 0.5mm | 150mm                    | 41112-040 |
| 40-50mm   | 0.004mm  | 40mm                    | 105mm | 0.5mm | 150mm                    | 41112-050 |
| 50-63mm   | 0.005mm  | 62mm                    | 127mm | 0.5mm | 150mm                    | 41112-063 |
| 62-75mm   | 0.005mm  | 62mm                    | 127mm | 0.5mm | 150mm                    | 41112-075 |
| 75-88mm   | 0.005mm  | 87mm                    | 127mm | 0.5mm | 150mm                    | 41112-088 |
| 87-100mm  | 0.005mm  | 87mm                    | 127mm | 0.5mm | 150mm                    | 41112-100 |
| 100-125mm | 0.005mm  | 125mm                   | 156mm | 1.0mm | 150mm                    | 41112-125 |
| 125-150mm | 0.005mm  | 125mm                   | 156mm | 1.0mm | 150mm                    | 41112-150 |
| 150-175mm | 0.006mm  | 175mm                   | 156mm | 1.0mm | 150mm                    | 41112-175 |
| 175-200mm | 0.006mm  | 175mm                   | 156mm | 1.0mm | 150mm                    | 41112-200 |
| 200-225mm | 0.007mm  | 225mm                   | 156mm | 1.0mm | 150mm                    | 41112-225 |
| 225-250mm | 0.007mm  | 225mm                   | 156mm | 1.0mm | 150mm                    | 41112-250 |
| 250-275mm | 0.008mm  | 275mm                   | 156mm | 1.0mm | 150mm                    | 41112-275 |
| 275-300mm | 0.008mm  | 275mm                   | 156mm | 1.0mm | 150mm                    | 41112-300 |

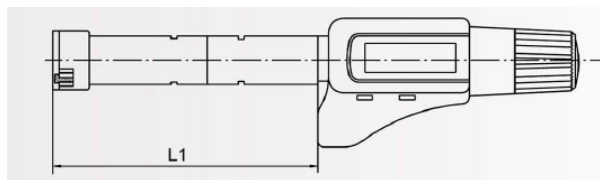
## Digital 2 Points Internal Micrometer (2-6mm)

### Features

- Resolution: Metric: 0.001mm / Inch: 0.00005"
- IP54 protection level
- Carbide tipped measuring faces
- Ratchet stop
- Supplied with setting rings
- Measuring contact points are designed to allow measurements near to the bottom of blind holes
- Packed in Aluminum box



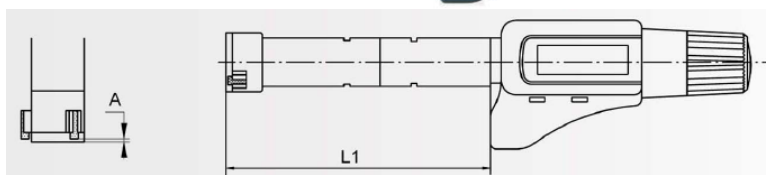
| Range         | Accuracy | Setting Rings | L1     | Code No.         |
|---------------|----------|---------------|--------|------------------|
| <b>Metric</b> |          |               |        |                  |
| 2-2.5mm       | 0.004mm  | 2.5mm         | 12.5mm | <b>41111-002</b> |
| 2.5-3mm       | 0.004mm  | 2.5mm         | 12.5mm | <b>41111-003</b> |
| 3-4mm         | 0.004mm  | 4mm           | 22.5mm | <b>41111-004</b> |
| 4-5mm         | 0.004mm  | 5mm           | 22.5mm | <b>41111-005</b> |
| 5-6mm         | 0.004mm  | 6mm           | 22.5mm | <b>41111-006</b> |
| <b>Inch</b>   |          |               |        |                  |
| 0.08-0.1"     | 0.00016" | 0.1"          | 0.5"   | <b>41121-210</b> |
| 0.1-0.12"     | 0.00016" | 0.1"          | 0.5"   | <b>41121-212</b> |
| 0.12-0.16"    | 0.00016" | 0.16"         | 0.9"   | <b>41121-216</b> |
| 0.16-0.2"     | 0.00016" | 0.16"         | 0.9"   | <b>41121-220</b> |
| 0.2-0.24"     | 0.00016" | 0.24"         | 0.9"   | <b>41121-224</b> |
| 0.24-0.28"    | 0.00016" | 0.24"         | 0.9"   | <b>41121-228</b> |



## Digital 3 Points Internal Micrometer (6-100mm)

### Features:

- Resolution: Metric: 0.001mm / Inch: 0.00005"
- IP54 protection Level
- Close to the bottom of blind hole. Can measure deep hole with extension rod
- Carbide-tipped contact points.
- Supplied with setting ring

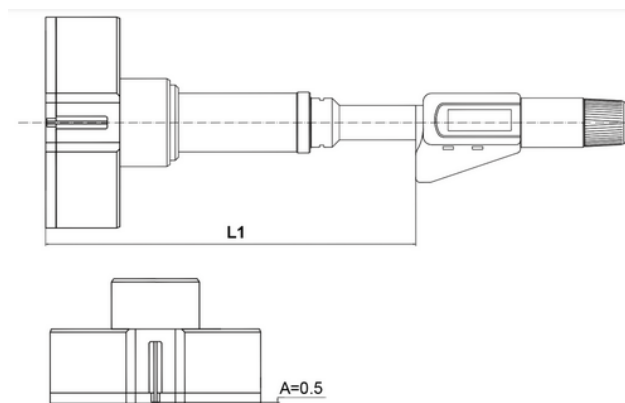


| Range         | Accuracy | Setting Rings | L1     | A     | Extension Rods | Code No.         |
|---------------|----------|---------------|--------|-------|----------------|------------------|
| <b>Metric</b> |          |               |        |       |                |                  |
| 6-8mm         | 0.004mm  | 6mm           | 54.5mm | 1.5mm | 100mm          | <b>41111-008</b> |
| 8-10mm        | 0.004mm  | 8mm           | 54.5mm | 1.5mm | 100mm          | <b>41111-010</b> |
| 10-12mm       | 0.004mm  | 10mm          | 54.5mm | 1.5mm | 100mm          | <b>41111-012</b> |
| 12-16mm       | 0.004mm  | 16mm          | 80mm   | 0.5mm | 150mm          | <b>41111-016</b> |
| 16-20mm       | 0.004mm  | 16mm          | 80mm   | 0.5mm | 150mm          | <b>41111-020</b> |
| 20-25mm       | 0.004mm  | 25mm          | 90mm   | 0.5mm | 150mm          | <b>41111-025</b> |
| 25-30mm       | 0.004mm  | 25mm          | 90mm   | 0.5mm | 150mm          | <b>41111-030</b> |
| 30-40mm       | 0.004mm  | 40mm          | 97mm   | 0.5mm | 150mm          | <b>41111-040</b> |
| 40-50mm       | 0.005mm  | 40mm          | 97mm   | 0.5mm | 150mm          | <b>41111-050</b> |
| 50-63mm       | 0.005mm  | 62mm          | 114mm  | 0.5mm | 150mm          | <b>41111-063</b> |
| 62-75mm       | 0.005mm  | 62mm          | 114mm  | 0.5mm | 150mm          | <b>41111-075</b> |
| 75-88mm       | 0.005mm  | 87mm          | 114mm  | 0.5mm | 150mm          | <b>41111-088</b> |
| 87-100mm      | 0.005mm  | 87mm          | 114mm  | 0.5mm | 150mm          | <b>41111-100</b> |
| <b>Inch</b>   |          |               |        |       |                |                  |
| 0.275-0.35"   | 0.00016" | 0.275"        | 2.18"  | 0.06" | 4"             | <b>41121-003</b> |
| 0.35-0.425"   | 0.00016" | 0.35"         | 2.18"  | 0.06" | 4"             | <b>41121-004</b> |
| 0.425-0.5"    | 0.00016" | 0.5"          | 2.18"  | 0.06" | 4"             | <b>41121-005</b> |
| 0.5-0.65"     | 0.00016" | 0.65"         | 3.2"   | 0.02" | 6"             | <b>41121-006</b> |
| 0.65-0.8"     | 0.00016" | 0.65"         | 3.2"   | 0.02" | 6"             | <b>41121-008</b> |
| 0.8-1"        | 0.00016" | 1"            | 3.6"   | 0.02" | 6"             | <b>41121-010</b> |
| 1-1.2"        | 0.00016" | 1"            | 3.6"   | 0.02" | 6"             | <b>41121-012</b> |
| 1.2-1.6"      | 0.00016" | 1.6"          | 3.88"  | 0.02" | 6"             | <b>41121-016</b> |
| 1.6-2"        | 0.0002"  | 1.6"          | 3.88"  | 0.02" | 6"             | <b>41121-020</b> |
| 2-2.5"        | 0.0002"  | 2.5"          | 4.56"  | 0.02" | 6"             | <b>41121-025</b> |
| 2.5-3"        | 0.0002"  | 2.5"          | 4.56"  | 0.02" | 6"             | <b>41121-030</b> |
| 3-3.5"        | 0.0002"  | 3.5"          | 4.56"  | 0.02" | 6"             | <b>41121-035</b> |
| 3.5-4"        | 0.0002"  | 3.5"          | 4.56"  | 0.02" | 6"             | <b>41121-040</b> |

## Digital 3 Points Internal Micrometer (100-300mm)

### Features:

- Resolution: Metric: 0.001mm / Inch: 0.00005"
- IP54 protection Level
- Measurement can be taken closer to the bottom of blind bore, and can measure deep hole with extension rod
- Carbide-tipped contact points.
- Additional extension can be added to increase the measuring depth
- Ratchet stop
- Setting rings are not included but optional
- Packed in Aluminum box



| Range         | Accuracy | Setting Rings | L1    | Extension Rods | Code No.         |
|---------------|----------|---------------|-------|----------------|------------------|
| <b>Metric</b> |          |               |       |                |                  |
| 100-125mm     | 0.005mm  | 100mm         | 150mm | 150mm          | <b>41111-125</b> |
| 125-150mm     | 0.005mm  | 125mm         | 150mm | 150mm          | <b>41111-150</b> |
| 150-175mm     | 0.005mm  | 150mm         | 150mm | 150mm          | <b>41111-175</b> |
| 175-200mm     | 0.005mm  | 175mm         | 150mm | 150mm          | <b>41111-200</b> |
| 200-225mm     | 0.007mm  | 200mm         | 150mm | 150mm          | <b>41111-225</b> |
| 225-250mm     | 0.007mm  | 225mm         | 150mm | 150mm          | <b>41111-250</b> |
| 250-275mm     | 0.007mm  | 250mm         | 150mm | 150mm          | <b>41111-275</b> |
| 275-300mm     | 0.007mm  | 275mm         | 150mm | 150mm          | <b>41111-300</b> |
| <b>Inch</b>   |          |               |       |                |                  |
| 4-5"          | 0.0002"  | Ø 4.5"        | 6"    | 6"             | <b>41121-050</b> |
| 5-6"          | 0.0002"  | Ø 5.5"        | 6"    | 6"             | <b>41121-060</b> |
| 6-7"          | 0.0002"  | Ø 6.5"        | 6"    | 6"             | <b>41121-070</b> |
| 7-8"          | 0.0002"  | Ø 7.5"        | 6"    | 6"             | <b>41121-080</b> |
| 8-9"          | 0.00028" | Ø 8.5"        | 6"    | 6"             | <b>41121-090</b> |
| 9-10"         | 0.00028" | Ø 9.5"        | 6"    | 6"             | <b>41121-100</b> |
| 10-11"        | 0.00028" | Ø 10.5"       | 6"    | 6"             | <b>41121-110</b> |
| 11-12"        | 0.00028" | Ø 11.5"       | 6"    | 6"             | <b>41121-120</b> |

## Mechanical 2 Points Internal Micrometer (2-6mm)

### Features:

- Graduation: 0.001mm
- Measurement can be taken closer to the bottom of blind hole, and can measure deep hole with extension rod
- Carbide-tipped contact points
- Ratchet stop
- Supplied with setting ring
- Packed in Aluminum box



| Range         | Graduation | Accuracy | Setting Rings | L1     | Code No.         |
|---------------|------------|----------|---------------|--------|------------------|
| <b>Metric</b> |            |          |               |        |                  |
| 2-2.5mm       | 0.001mm    | 0.004mm  | 2.5mm         | 12.5mm | <b>43011-002</b> |
| 2.5-3mm       | 0.001mm    | 0.004mm  | 2.5mm         | 12.5mm | <b>43011-003</b> |
| 3-4mm         | 0.001mm    | 0.004mm  | 4mm           | 22.5mm | <b>43011-004</b> |
| 4-5mm         | 0.001mm    | 0.004mm  | 5mm           | 22.5mm | <b>43011-005</b> |
| 5-6mm         | 0.001mm    | 0.004mm  | 6mm           | 22.5mm | <b>43011-006</b> |
| <b>Inch</b>   |            |          |               |        |                  |
| 0.08-0.1"     | 0.0001"    | 0.00016" | 0.1"          | 0.5"   | <b>43021-210</b> |
| 0.1-0.12"     | 0.0001"    | 0.00016" | 0.1"          | 0.5"   | <b>43021-212</b> |
| 0.12-0.16"    | 0.0001"    | 0.00016" | 0.16"         | 0.9"   | <b>43021-216</b> |
| 0.16-0.2"     | 0.0001"    | 0.00016" | 0.16"         | 0.9"   | <b>43021-220</b> |
| 0.2-0.24"     | 0.0001"    | 0.00016" | 0.24"         | 0.9"   | <b>43021-224</b> |
| 0.24-0.28"    | 0.0001"    | 0.00016" | 0.24"         | 0.9"   | <b>43021-228</b> |

## Mechanical 3 Points Internal Micrometer (6-100mm)

### Features:

- Graduation: 0.001mm
- Close to the bottom of blind hole. Can measure deep hole with extension rod
- Carbide-tipped contact points
- Ratchet stop
- Supplied with setting ring



| Range         | Accuracy | Setting Rings | L1     | A     | Extension Rods | Code No.         |
|---------------|----------|---------------|--------|-------|----------------|------------------|
| <b>Metric</b> |          |               |        |       |                |                  |
| 6-8mm         | 0.004mm  | 6mm           | 54.5mm | 1.5mm | 100mm          | <b>43011-008</b> |
| 8-10mm        | 0.004mm  | 8mm           | 54.5mm | 1.5mm | 100mm          | <b>43011-010</b> |
| 10-12mm       | 0.004mm  | 10mm          | 54.5mm | 1.5mm | 100mm          | <b>43011-012</b> |
| 12-16mm       | 0.004mm  | 16mm          | 80mm   | 0.5mm | 150mm          | <b>43011-016</b> |
| 16-20mm       | 0.004mm  | 16mm          | 80mm   | 0.5mm | 150mm          | <b>43011-020</b> |
| 20-25mm       | 0.004mm  | 25mm          | 90mm   | 0.5mm | 150mm          | <b>43011-025</b> |
| 25-30mm       | 0.004mm  | 25mm          | 90mm   | 0.5mm | 150mm          | <b>43011-030</b> |
| 30-40mm       | 0.004mm  | 40mm          | 97mm   | 0.5mm | 150mm          | <b>43011-040</b> |
| 40-50mm       | 0.005mm  | 40mm          | 97mm   | 0.5mm | 150mm          | <b>43011-050</b> |
| 50-63mm       | 0.005mm  | 62mm          | 114mm  | 0.5mm | 150mm          | <b>43011-063</b> |
| 62-75mm       | 0.005mm  | 62mm          | 114mm  | 0.5mm | 150mm          | <b>43011-075</b> |
| 75-88mm       | 0.005mm  | 87mm          | 114mm  | 0.5mm | 150mm          | <b>43011-088</b> |
| 87-100mm      | 0.005mm  | 87mm          | 114mm  | 0.5mm | 150mm          | <b>43011-100</b> |
| <b>Inch</b>   |          |               |        |       |                |                  |
| 0.275-0.35"   | 0.00016" | 0.275"        | 2.18"  | 0.06" | 4"             | <b>43021-003</b> |
| 0.35-0.425"   | 0.00016" | 0.35"         | 2.18"  | 0.06" | 4"             | <b>43021-004</b> |
| 0.425-0.5"    | 0.00016" | 0.5"          | 2.18"  | 0.06" | 4"             | <b>43021-005</b> |
| 0.5-0.65"     | 0.00016" | 0.65"         | 3.2"   | 0.02" | 6"             | <b>43021-006</b> |
| 0.65-0.8"     | 0.00016" | 0.65"         | 3.2"   | 0.02" | 6"             | <b>43021-008</b> |
| 0.8-1"        | 0.00016" | 1"            | 3.6"   | 0.02" | 6"             | <b>43021-010</b> |
| 1-1.2"        | 0.00016" | 1"            | 3.6"   | 0.02" | 6"             | <b>43021-012</b> |
| 1.2-1.6"      | 0.00016" | 1.6"          | 3.88"  | 0.02" | 6"             | <b>43021-016</b> |
| 1.6-2"        | 0.0002"  | 1.6"          | 3.88"  | 0.02" | 6"             | <b>43021-020</b> |
| 2-2.5"        | 0.0002"  | 2.5"          | 4.56"  | 0.02" | 6"             | <b>43021-025</b> |
| 2.5-3"        | 0.0002"  | 2.5"          | 4.56"  | 0.02" | 6"             | <b>43021-003</b> |
| 3-3.5"        | 0.0002"  | 3.5"          | 4.56"  | 0.02" | 6"             | <b>43021-035</b> |
| 3.5-4"        | 0.0002"  | 3.5"          | 4.56"  | 0.02" | 6"             | <b>43021-040</b> |

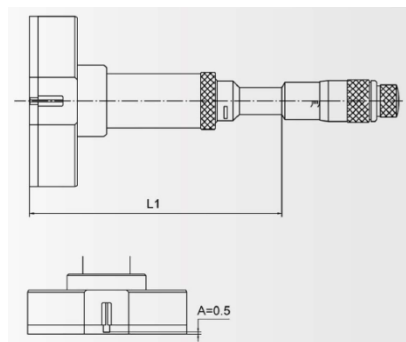
## Mechanical 3 Points Internal Micrometer (100-300mm)

### Features:

- Graduation: 0.001mm
- Measurement can be taken closer to the bottom of blind hole, and can measure deep hole with extension rod
- Carbide-tipped contact points
- Ratchet stop
- Setting rings are not included but optional



| Range         | Accuracy | Setting Rings | L1    | Extension Rods | Code No.         |
|---------------|----------|---------------|-------|----------------|------------------|
| <b>Metric</b> |          |               |       |                |                  |
| 100-125mm     | 0.005mm  | 100mm         | 145mm | 150mm          | <b>43011-115</b> |
| 125-150mm     | 0.005mm  | 125mm         | 145mm | 150mm          | <b>43011-150</b> |
| 150-175mm     | 0.005mm  | 150mm         | 145mm | 150mm          | <b>43011-175</b> |
| 175-200mm     | 0.005mm  | 175mm         | 145mm | 150mm          | <b>43011-200</b> |
| 200-225mm     | 0.007mm  | 200mm         | 145mm | 150mm          | <b>43011-225</b> |
| 225-250mm     | 0.007mm  | 225mm         | 145mm | 150mm          | <b>43011-250</b> |
| 250-275mm     | 0.007mm  | 250mm         | 145mm | 150mm          | <b>43011-275</b> |
| 275-300mm     | 0.007mm  | 275mm         | 145mm | 150mm          | <b>43011-300</b> |
| <b>Inch</b>   |          |               |       |                |                  |
| 4-5"          | 0.0002"  | 4"            | 5.8"  | 6"             | <b>43021-050</b> |
| 5-6"          | 0.0002"  | 5"            | 5.8"  | 6"             | <b>43021-060</b> |
| 6-7"          | 0.0002"  | 6"            | 5.8"  | 6"             | <b>43021-070</b> |
| 7-8"          | 0.0002"  | 7"            | 5.8"  | 6"             | <b>43021-080</b> |
| 8-9"          | 0.00028" | 8"            | 5.8"  | 6"             | <b>43021-090</b> |
| 9-10"         | 0.00028" | 9"            | 5.8"  | 6"             | <b>43021-100</b> |
| 10-11"        | 0.00028" | 10"           | 5.8"  | 6"             | <b>43021-110</b> |
| 11-12"        | 0.00028" | 11"           | 5.8"  | 6"             | <b>43021-120</b> |



## Digital Bore Gauge

### Features:

- Movable probe pin with carbide ball
- Steel-hardened-tipped contact point for excellent durability
- 18-35mm range is with canister and fixed anvil
- Over 35mm range is with wheel guide and inserting anvils
- Changeable anvils for wide measuring ranges
- Equipped with digital indicator
- Dial plate can be rotated by 330°



| Measuring Range | Resolution | Accuracy | Dial Travel | Probe Depth | Code No.         |
|-----------------|------------|----------|-------------|-------------|------------------|
| 18-35mm         | 0.002mm    | ±0.015mm | 6 mm        | 150mm       | <b>41011-018</b> |
| 35-50mm         | 0.002mm    | ±0.015mm | 6 mm        | 150mm       | <b>41011-035</b> |
| 50-160mm        | 0.002mm    | ±0.018mm | 6 mm        | 150mm       | <b>41011-050</b> |
| 160-250mm       | 0.002mm    | ±0.018mm | 6 mm        | 250mm       | <b>41011-160</b> |
| 250-450mm       | 0.002mm    | ±0.018mm | 6 mm        | 250mm       | <b>41011-250</b> |

## Dial Bore Gauge

### Features:

- Movable probe pin with carbide ball
- Steel-hardened-tipped contact point for excellent durability
- 18-35mm and 35-50mm range are with canister and fixed anvil
- Over 50mm range is with wheel guide and inserting anvils
- Changeable anvils for wide measuring ranges
- Equipped with dial indicator



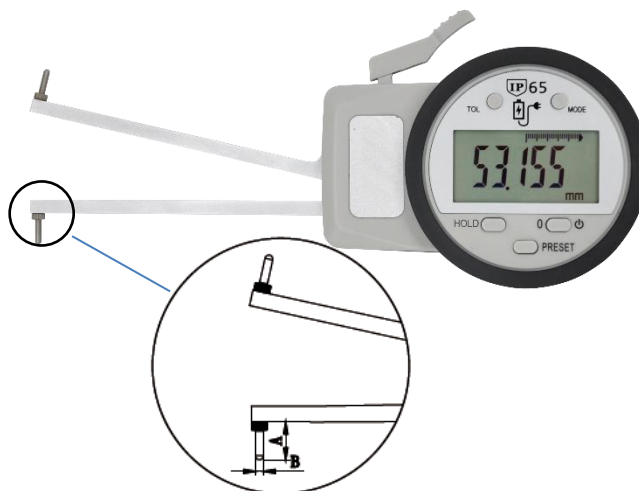
| Measuring Range | Graduation | Accuracy | Dial Travel | Probe Depth | Code No.         |
|-----------------|------------|----------|-------------|-------------|------------------|
| 18-35mm         | 0.01mm     | ±0.015mm | 3 mm (AGD2) | 150mm       | <b>42011-018</b> |
| 35-50mm         | 0.01mm     | ±0.015mm | 3 mm (AGD2) | 150mm       | <b>42011-035</b> |
| 50-160mm        | 0.01mm     | ±0.020mm | 3 mm (AGD2) | 150mm       | <b>42011-050</b> |
| 160-250mm       | 0.01mm     | ±0.020mm | 3 mm (AGD2) | 250mm       | <b>42011-160</b> |
| 250-450mm       | 0.01mm     | ±0.020mm | 3 mm (AGD2) | 250mm       | <b>42011-250</b> |

## Inside Digital Caliper Gauge



### Features:

- Designed to measure internal holes, grooves and other intricate internal characteristics
- IP65 protection level
- Tolerance preset and GO/NG judgement
- With preset function
- Carbide measuring anvil
- Built-in rechargeable lithium battery
- Built-in Bluetooth transmission is optional



| Range            | Resolution      | Accuracy          | Arm Length | Tip Length A | Code No.           |
|------------------|-----------------|-------------------|------------|--------------|--------------------|
| 5-15mm/0.2-0.6"  | 0.002mm/0.0001" | ± 0.015mm/0.0006" | 35mm       | 2.3mm        | <b>45121-0515</b>  |
| 10-30mm/0.4-1.2" | 0.005mm/0.0002" | ± 0.025mm/0.001"  | 85mm       | 5.2mm        | <b>45121-1030</b>  |
| 30-50mm/1.2-2"   | 0.005mm/0.0002" | ± 0.025mm/0.001"  | 85mm       | 7.2mm        | <b>45121-3050</b>  |
| 50-100mm/2-4"    | 0.010mm/0.0005" | ± 0.05mm/0.002"   | 236mm      | 11.7mm       | <b>45121-50100</b> |
| 100-150mm/4-6"   | 0.010mm/0.0005" | ± 0.05mm/0.002"   | 236mm      | 11.7mm       | <b>45121-10050</b> |
| 150-200mm/6-8"   | 0.010mm/0.0005" | ± 0.05mm/0.002"   | 236mm      | 11.7mm       | <b>45121-15000</b> |

## Inside Digital Caliper Gauge

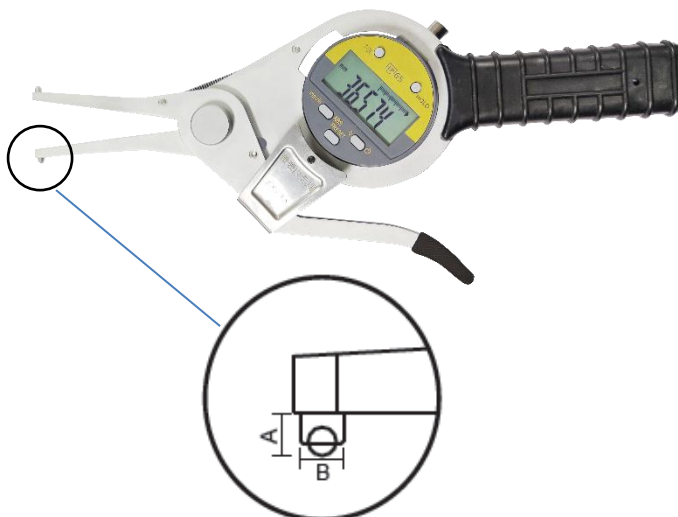


Data  
Output

IP65

### Features:

- Designed to measure internal holes, grooves and other intricate internal characteristics
- Graduation 0.001mm / 0.00005"
- IP65 protection level
- Tolerance preset and GO/NG judgement
- With preset function
- With data output port
- Carbide measuring anvil
- Built-in Bluetooth transmission is optional

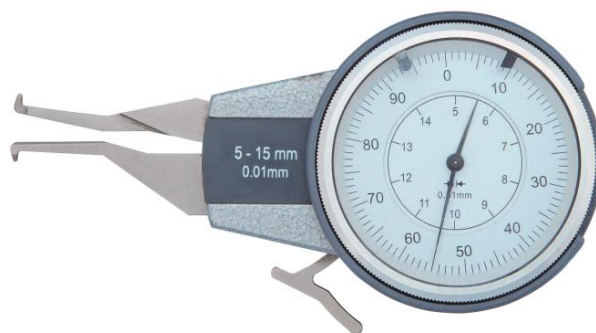


| Range                | Accuracy                   | Arm Length | Tip Length A | Code No.           |
|----------------------|----------------------------|------------|--------------|--------------------|
| 15-35mm / 0.6-1.4"   | $\pm 0.02\text{mm}/0.001"$ | 50mm       | 3mm          | <b>45120-1535</b>  |
| 35-55mm / 1.4-2.2"   | $\pm 0.02\text{mm}/0.001"$ | 80mm       | 6mm          | <b>45120-3555</b>  |
| 55-75mm / 2.2-3.0"   | $\pm 0.02\text{mm}/0.001"$ | 90mm       | 8mm          | <b>45120-5575</b>  |
| 75-95mm / 3-3.8"     | $\pm 0.02\text{mm}/0.001"$ | 100mm      | 8mm          | <b>45120-7595</b>  |
| 95-115mm / 3.8-4.6"  | $\pm 0.02\text{mm}/0.001"$ | 120mm      | 10mm         | <b>45120-95115</b> |
| 115-135mm / 4.6-5.4" | $\pm 0.02\text{mm}/0.001"$ | 120mm      | 10mm         | <b>45120-11535</b> |

## Inside Dial Caliper Gauge

### Features:

- Graduation 0.01mm
- Designed to measure internal holes, grooves and other intricate internal characteristics
- Big and clear dial plate for easy reading, with internal tolerance marker
- 10mm and 20mm trip type are optional



| Range      | Accuracy | Arm Length | Tip Length | Code No.          |
|------------|----------|------------|------------|-------------------|
| Trip: 10mm |          |            |            |                   |
| 5-15mm     | 0.02mm   | 20mm       | 1.5mm      | <b>45010-0515</b> |
| 10-20mm    | 0.02mm   | 25mm       | 3.0mm      | <b>45010-1020</b> |
| 20-30mm    | 0.02mm   | 30mm       | 6.5mm      | <b>45010-2030</b> |
| 30-40mm    | 0.02mm   | 30mm       | 9.0mm      | <b>45010-3040</b> |
| 40-50mm    | 0.02mm   | 30mm       | 9.0mm      | <b>45010-4050</b> |
| Trip: 20mm |          |            |            |                   |
| 5-25mm     | 0.03mm   | 35mm       | 1.5mm      | <b>45020-0525</b> |
| 10-30mm    | 0.03mm   | 55mm       | 3.5mm      | <b>45020-1030</b> |
| 20-40mm    | 0.03mm   | 80mm       | 6.5mm      | <b>45020-2040</b> |
| 30-50mm    | 0.03mm   | 80mm       | 8.5mm      | <b>45020-3050</b> |
| 40-60mm    | 0.03mm   | 80mm       | 8.5mm      | <b>45020-4060</b> |

## Inside Dial Caliper Gauge

### Features:

- Graduation 0.01mm
- Designed to measure internal holes, grooves and other intricate internal characteristics
- Big and clear dial plate for easy reading



| Range     | Accuracy | Arm Length | Tip Length | Code No.           |
|-----------|----------|------------|------------|--------------------|
| 15-35mm   | 0.04mm   | 50mm       | 3mm        | <b>45021-1535</b>  |
| 35-55mm   | 0.04mm   | 80mm       | 6mm        | <b>45021-3555</b>  |
| 55-75mm   | 0.04mm   | 90mm       | 8mm        | <b>45021-5575</b>  |
| 75-95mm   | 0.04mm   | 100mm      | 8mm        | <b>45021-7595</b>  |
| 95-115mm  | 0.04mm   | 150mm      | 10mm       | <b>45021-95115</b> |
| 115-135mm | 0.04mm   | 150mm      | 10mm       | <b>45021-11535</b> |
| 135-155mm | 0.04mm   | 200mm      | 10mm       | <b>45021-13555</b> |
| 155-175mm | 0.04mm   | 200mm      | 10mm       | <b>45021-15575</b> |
| 175-195mm | 0.04mm   | 200mm      | 10mm       | <b>45021-17595</b> |

## Outside Digital Caliper Gauge

### Features:

- Designed to measure internal holes, grooves and other intricate internal characteristics
- IP65 protection level
- Tolerance preset and GO/NG judgement
- With preset function
- Carbide measuring anvil
- Built-in rechargeable lithium battery
- Built-in Bluetooth transmission is optional



| Range         | Resolution      | Accuracy         | Arm Length | Tip Length<br>A | Code No.          |
|---------------|-----------------|------------------|------------|-----------------|-------------------|
| 0-10mm/0-0.4" | 0.002mm/0.0001" | ± 0.01mm/0.0005" | 35mm       | 19.1mm          | <b>46121-0010</b> |
| 0-20mm/0-0.8" | 0.005mm/0.0002" | ± 0.02mm/0.0008" | 85mm       | 24.7mm          | <b>46121-0020</b> |
| 0-30mm/0-1.2" | 0.010mm/0.0005" | ± 0.03mm/0.0012" | 116mm      | 30mm            | <b>46121-0030</b> |
| 0-50mm/0-2"   | 0.010mm/0.0005" | ± 0.04mm/0.0016" | 167mm      | 30mm            | <b>46121-0050</b> |
| 0-100mm/0-4"  | 0.010mm/0.0005" | ± 0.07mm/0.003"  | 382mm      | 35mm            | <b>46121-0100</b> |

## Outside Digital Caliper Gauge

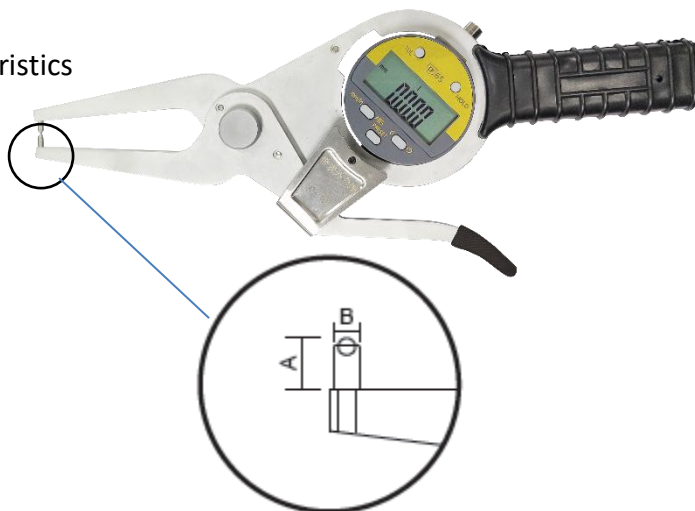


Data  
Output

IP65

### Features:

- Designed to measure outside diameter, ring grooves and other intricate outside characteristics
- Graduation 0.001mm / 0.00005"
- IP65 protection level
- Tolerance preset and GO/NG judgement
- With preset function
- With data output port
- Carbide measuring anvil
- Built-in Bluetooth transmission is optional



| Range              | Accuracy       | Arm Length | Tip Length A | Code No.           |
|--------------------|----------------|------------|--------------|--------------------|
| 0-20mm / 0-0.8"    | ±0.02mm/0.001" | 60mm       | 6mm          | <b>46120-0020</b>  |
| 20-40mm / 0.8-1.6" | ±0.02mm/0.001" | 60mm       | 6mm          | <b>46120-2040</b>  |
| 40-60mm / 1.6-2.4" | ±0.02mm/0.001" | 55mm       | 6mm          | <b>46120-4060</b>  |
| 60-80mm / 2.4-3.2" | ±0.02mm/0.001" | 55mm       | 6mm          | <b>46120-6080</b>  |
| 80-100mm / 3.2-4"  | ±0.02mm/0.001" | 55mm       | 6mm          | <b>46120-80100</b> |

## Outside Dial Caliper Gauge

### Features:

- Graduation 0.01mm
- Designed to measure outside diameter, ring grooves and other intricate outside characteristics
- Big and clear dial plate for easy reading, with internal tolerance marker
- 10mm and 20mm trip type are optional



| Range      | Accuracy | Arm Length | Tip Length | Code No.          |
|------------|----------|------------|------------|-------------------|
| Trip: 10mm |          |            |            |                   |
| 0-10mm     | 0.02mm   | 40mm       | 8mm        | <b>46010-0010</b> |
| 10-20mm    | 0.02mm   | 40mm       | 8mm        | <b>46010-1020</b> |
| 20-30mm    | 0.02mm   | 40mm       | 8mm        | <b>46010-2030</b> |
| 30-40mm    | 0.02mm   | 40mm       | 8mm        | <b>46010-3040</b> |
| 40-50mm    | 0.02mm   | 40mm       | 8mm        | <b>46010-4050</b> |
| Trip: 20mm |          |            |            |                   |
| 0-20mm     | 0.03mm   | 80mm       | 25mm       | <b>46020-0020</b> |
| 10-30mm    | 0.03mm   | 80mm       | 25mm       | <b>46020-1030</b> |
| 20-40mm    | 0.03mm   | 80mm       | 25mm       | <b>46020-2040</b> |
| 30-50mm    | 0.03mm   | 80mm       | 25mm       | <b>46020-3050</b> |
| 40-60mm    | 0.03mm   | 80mm       | 25mm       | <b>46020-4060</b> |

## Outside Dial Caliper Gauge

### Features:

- Graduation 0.01mm
- Designed to measure outside diameter, ring grooves and other intricate outside characteristics
- Big and clear dial plate for easy reading



| Range     | Accuracy | Arm Length | Tip Length | Code No.           |
|-----------|----------|------------|------------|--------------------|
| 0-20mm    | 0.04mm   | 60mm       | 6mm        | <b>46021-0020</b>  |
| 20-40mm   | 0.04mm   | 60mm       | 6mm        | <b>46021-2040</b>  |
| 40-60mm   | 0.04mm   | 55mm       | 6mm        | <b>46021-4060</b>  |
| 60-80mm   | 0.04mm   | 55mm       | 6mm        | <b>46021-6080</b>  |
| 80-100mm  | 0.04mm   | 55mm       | 6mm        | <b>46021-80100</b> |
| 100-120mm | 0.04mm   | 95mm       | 10mm       | <b>46021-10020</b> |
| 120-140mm | 0.04mm   | 95mm       | 10mm       | <b>46021-12040</b> |
| 140-160mm | 0.04mm   | 95mm       | 10mm       | <b>46021-14060</b> |
| 160-180mm | 0.04mm   | 95mm       | 10mm       | <b>46021-16080</b> |
| 180-200mm | 0.04mm   | 95mm       | 10mm       | <b>46021-18000</b> |

## IP65 Digital Indicator

### Features:

- Inductive measurement system
- IP65 protection level
- Analog display
- Tolerance set function and GO / NG judgement
- + / - direction set
- With Type-C data output port
- Rechargeable with Type-C port
- Built-in wireless transmission (optional)
- 8mm stem diameter (3/8" stem diameter optional)



| Range            | Resolution       | Accuracy        | Code No.         |                  |
|------------------|------------------|-----------------|------------------|------------------|
|                  |                  |                 | Metric           | Inch             |
| 0-12.7mm/0- 0.5" | 0.001mm/0.00005" | 0.007mm/0.0003" | <b>31311-050</b> | <b>31321-050</b> |
| 0-25.4mm/0-1"    | 0.001mm/0.00005" | 0.008mm/0.0003" | <b>31311-100</b> | <b>31321-100</b> |
| 0-50.8mm/0-2"    | 0.001mm/0.00005" | 0.010mm/0.0004" | <b>31311-200</b> | <b>31321-200</b> |

# Absolute Digital Indicator

## Features:

- Absolute capacitive system
- Absolute origin set at any position
- Analog display
- Resolution 0.0005mm
- Tolerance set function and GO / NG judgement
- + / - direction set
- With Type-C data output port
- Rechargeable with Type-C port
- Built-in wireless transmission (optional)
- 8mm stem diameter (3/8" stem optional)



| Range            | Resolution        | Accuracy         | Code No.         |                  |
|------------------|-------------------|------------------|------------------|------------------|
|                  |                   |                  | Metric           | Inch             |
| 0-12.7mm/0- 0.5" | 0.0005mm/0.00002" | 0.002mm/0.0001"  | <b>31212-050</b> | <b>31222-050</b> |
| 0-25.4mm/0-1"    | 0.0005mm/0.00002" | 0.0025mm/0.0001" | <b>31212-100</b> | <b>31222-100</b> |
| 0-50.8mm/0-2"    | 0.0005mm/0.00002" | 0.003mm/0.00015" | <b>31212-200</b> | <b>31222-200</b> |

## IP65 Digital Indicator

### Features:

- Inductive measurement system
- IP65 protection level
- Analog display
- Response speed 1.6m/s
- Repeatability 0.003mm / 0.0001"
- Tolerance set function and GO/NG judgement
- + / - direction set
- Auto power off
- With data output port (DCB-02, DWB-02, DWB-05)
- Built in wireless transmission is optional
- 8mm stem diameter (3/8" stem diameter optional)



| Range            | Resolution      | Accuracy       | Code No.         |                  |
|------------------|-----------------|----------------|------------------|------------------|
|                  |                 |                | Metric           | Inch             |
| 0-12.7mm/0- 0.5" | 0.001mm/.00005" | 0.007mm/.0003" | <b>31310-050</b> | <b>31320-050</b> |
| 0-25.4mm/0-1"    | 0.001mm/.00005" | 0.008mm/.0003" | <b>31310-100</b> | <b>31320-100</b> |
| 0-50.8mm/0-2"    | 0.001mm/.00005" | 0.010mm/.0004" | <b>31310-200</b> | <b>31320-200</b> |
| 0-100mm / 0-4"   | 0.001mm/.00005" | 0.015mm/.0006" | <b>31310-400</b> | <b>31320-400</b> |

## Absolute Digital Indicator



Absolute

Data Output

### Features:

- Absolute encoder sensor, no response speed limit
- Absolute origin set at any position
- Tolerance preset and GO/NG judgment
- “+” or “-” direction set
- With data output function
- Large easy read LCD display.
- Display can be rotated by 0° ~ 330°
- With data output port (DCB-01 / DWB-01)
- Build in wireless transmission (optional)
- 8mm stem diameter (3/8” stem diameter for inch)
- Can meet IP65 protection level



| Range           | Resolution       | Accuracy        | Code No.         |                  |
|-----------------|------------------|-----------------|------------------|------------------|
|                 |                  |                 | Metric           | Inch             |
| 0-12.7mm/0-0.5" | 0.001mm/0.00005" | 0.004mm/.00015" | <b>31211-050</b> | <b>31221-050</b> |
| 0-25.4mm/0-1.0" | 0.001mm/0.00005" | 0.004mm/.00015" | <b>31211-100</b> | <b>31221-100</b> |
| 0-50.8mm/0-2.0" | 0.001mm/0.00005" | 0.005mm/.0002"  | <b>31211-200</b> | <b>31221-200</b> |
| 0-12.7mm/0-0.5" | 0.01mm /0.0005"  | 0.01mm /.0005"  | <b>31211-051</b> | <b>31221-051</b> |
| 0-25.4mm/0-1.0" | 0.01mm /0.0005"  | 0.01mm /.0005"  | <b>31211-101</b> | <b>31221-101</b> |
| 0-50.8mm/0-2.0" | 0.01mm /0.0005"  | 0.015mm/.001"   | <b>31211-201</b> | <b>31221-201</b> |



Lifting bar



Lifting release



Lifting frame

## IP54 / IP65 Digital Indicator

### Features:

- With large digital display
- Preset real position value
- Metric-Inch conversion at any position
- Auto power off
- Glass capacitive sensor
- Absolute / incremental measurement
- With data output port (DCB-05 / DWB-05)
- 8mm stem diameter (3/8" stem diameter optional)



| Range           | Resolution      | Accuracy        | Code No.         |                  | IP Rate     |
|-----------------|-----------------|-----------------|------------------|------------------|-------------|
|                 |                 |                 | Metric           | Inch             |             |
| 0-12.7mm/0-.5"  | 0.001mm/.00005" | 0.004mm/.00015" | <b>31112-050</b> | <b>31122-050</b> | <b>IP65</b> |
| 0-25.4mm/0-1.0" | 0.001mm/.00005" | 0.005mm/.0002"  | <b>31112-100</b> | <b>31122-100</b> | IP54        |
| 0-50.8mm/0-2.0" | 0.001mm/.00005" | 0.006mm/.0002"  | <b>31112-200</b> | <b>31122-200</b> | IP54        |
| 0-12.7mm/0-.5"  | 0.01mm /.0005"  | 0.02mm /.001"   | <b>31112-051</b> | <b>31122-051</b> | <b>IP65</b> |
| 0-25.4mm/0-1.0" | 0.01mm /.0005"  | 0.02mm /.001"   | <b>31112-101</b> | <b>31122-101</b> | IP54        |
| 0-50.8mm/0-2.0" | 0.01mm /.0005"  | 0.02mm /.001"   | <b>31112-201</b> | <b>31122-201</b> | IP54        |



## Big Measuring Range Digital Indicator – 3 Buttons

Data  
Output

### Features:

- With large digital display
- The measurement range can be up to 100mm
- Preset real position value
- Metric-Inch conversion at any position
- Auto power off
- Glass capacitive sensor
- Absolute / incremental measurement
- With data output port (DCB-05 / DWB-05)



| Range          | Resolution      | Accuracy        | Code No.         |                  | IP Rate |
|----------------|-----------------|-----------------|------------------|------------------|---------|
|                |                 |                 | Metric           | Inch             |         |
| 0-100mm/0-4.0" | 0.001mm/.00005" | 0.008mm /.0003" | <b>31112-400</b> | <b>31122-400</b> | IP54    |
| 0-100mm/0-4.0" | 0.01mm /.0005"  | 0.03mm /.001"   | <b>31112-401</b> | <b>31122-401</b> | IP54    |



## Digital Indicator - 3 Buttons

Data  
Output

### Features:

- With large digital display
- Metric-Inch conversion at any position
- Auto power off
- Glass capacitive sensor
- Absolute / incremental measurement
- With Mini-USB data output port (DCB-05 / DWB-05)
- 8mm stem diameter (3/8" stem diameter optional)



| Range           | Resolution      | Accuracy         | Code No.         |                  |
|-----------------|-----------------|------------------|------------------|------------------|
|                 |                 |                  | Metric           | Inch             |
| 0-12.7mm/0-.5"  | 0.001mm/.00005" | 0.004mm/0.00015" | <b>31013-050</b> | <b>31023-050</b> |
| 0-25.4mm/0-1.0" | 0.001mm/.00005" | 0.005mm/0.0002"  | <b>31013-100</b> | <b>31023-100</b> |
| 0-50.8mm/0-2.0" | 0.001mm/.00005" | 0.006mm/0.0002"  | <b>31013-200</b> | <b>31023-200</b> |
| 0-12.7mm/0-.5"  | 0.01mm /.0005"  | 0.02mm /0.001"   | <b>31013-051</b> | <b>31023-051</b> |
| 0-25.4mm/0-1.0" | 0.01mm /.0005"  | 0.02mm /0.001"   | <b>31013-101</b> | <b>31023-101</b> |
| 0-50.8mm/0-2.0" | 0.01mm /.0005"  | 0.02mm /0.001"   | <b>31013-201</b> | <b>31023-201</b> |



## Digital Indicator – 3 Buttons

Data  
Output

### Features:

- With large digital display
- 0.005/0.0005mm resolution
- Metric-Inch conversion at any position
- Auto power off
- Glass capacitive sensor
- Absolute / incremental measurement
- With Micro-USB data output port (DCB-15 / DWB-05)
- 8mm stem diameter (3/8" stem diameter optional)



| Range           | Resolution       | Accuracy        | Code No.         |                  | IP Rate     |
|-----------------|------------------|-----------------|------------------|------------------|-------------|
|                 |                  |                 | Metric           | Inch             |             |
| 0-12.7mm/0- .5" | 0.0005mm/.00002" | 0.004mm/.00015" | <b>31013-052</b> | <b>31023-052</b> | <b>IP54</b> |
| 0-25.4mm/0-1.0" | 0.0005mm/.00002" | 0.005mm/.0002"  | <b>31013-102</b> | <b>31023-102</b> | IP54        |
| 0-50.8mm/0-2.0" | 0.0005mm/.00002" | 0.006mm/.0002"  | <b>31013-202</b> | <b>31023-202</b> | IP54        |
| 0-12.7mm/0- .5" | 0.005mm /.0002"  | 0.02mm /.001"   | <b>31013-053</b> | <b>31023-053</b> | <b>IP54</b> |
| 0-25.4mm/0-1.0" | 0.005mm /.0002"  | 0.02mm /.001"   | <b>31013-103</b> | <b>31023-103</b> | IP54        |
| 0-50.8mm/0-2.0" | 0.005mm /.0002"  | 0.02mm /.001"   | <b>31013-203</b> | <b>31023-203</b> | IP54        |



## Digital Indicator - 5 Buttons

Data  
Output

### Features:

- With large digital display
- Preset real position value
- Metric-Inch conversion at any position
- Tolerance setting and automatic deviation judgment
- Run-out detection
- Max./min measurements searching and reservation
- Auto power off
- Glass capacitive sensor
- Absolute / incremental measurement
- With Mini-USB data output port (DCB-05 / DWB-05)
- 8mm stem diameter (3/8" stem diameter optional)



| Range           | Resolution      | Accuracy        | Code No          |                  |
|-----------------|-----------------|-----------------|------------------|------------------|
|                 |                 |                 | Metric           | Inch             |
| 0-12.7mm/0-.5"  | 0.001mm/.00005" | 0.004mm/.00015" | <b>31014-050</b> | <b>31024-050</b> |
| 0-25.4mm/0-1.0" | 0.001mm/.00005" | 0.005mm/.0002"  | <b>31014-100</b> | <b>31024-100</b> |
| 0-50.8mm/0-2.0" | 0.001mm/.00005" | 0.006mm/.0002"  | <b>31014-200</b> | <b>31024-200</b> |
| 0-12.7mm/0-.5"  | 0.01mm /.0005"  | 0.02mm /.001"   | <b>31014-051</b> | <b>31024-051</b> |
| 0-25.4mm/0-1.0" | 0.01mm /.0005"  | 0.02mm /.001"   | <b>31014-101</b> | <b>31024-101</b> |
| 0-50.8mm/0-2.0" | 0.01mm /.0005"  | 0.02mm /.001"   | <b>31014-201</b> | <b>31024-201</b> |



## Digital Indicator – 5 Buttons

Data  
Output

### Features:

- With large digital display
- 0.005/0.0005mm resolution
- Preset real position value
- Metric-Inch conversion at any position
- Tolerance setting and automatic deviation judgment
- Run-out detection
- Max./min measurements searching and reservation
- Auto power off
- Glass capacitive sensor
- Absolute / incremental measurement
- With Micro-USB data output port (DCB-15 / DWB-05)
- 8mm stem diameter (3/8" stem diameter optional)



| Range           | Resolution       | Accuracy        | Code No.         |                  | IP Rate     |
|-----------------|------------------|-----------------|------------------|------------------|-------------|
|                 |                  |                 | Metric           | Inch             |             |
| 0-12.7mm/0-.5"  | 0.0005mm/.00002" | 0.004mm/.00015" | <b>31014-052</b> | <b>31024-052</b> | <b>IP54</b> |
| 0-25.4mm/0-1.0" | 0.0005mm/.00002" | 0.005mm/.0002"  | <b>31014-102</b> | <b>31024-102</b> | IP54        |
| 0-50.8mm/0-2.0" | 0.0005mm/.00002" | 0.006mm/.0002"  | <b>31014-202</b> | <b>31024-202</b> | IP54        |
| 0-12.7mm/0-.5"  | 0.005mm /.0002"  | 0.02mm /.001"   | <b>31014-053</b> | <b>31024-053</b> | <b>IP54</b> |
| 0-25.4mm/0-1.0" | 0.005mm /.0002"  | 0.02mm /.001"   | <b>31014-103</b> | <b>31024-103</b> | IP54        |
| 0-50.8mm/0-2.0" | 0.005mm /.0002"  | 0.02mm /.001"   | <b>31014-203</b> | <b>31024-203</b> | IP54        |



## Digital Indicator – Analog

Data  
Output

### Features:

- Digital and analog bar display
- With large digital display
- Preset real position value
- Tolerance setting and automatic deviation judgment
- Run-out detection, storage of current measuring value
- Glass capacitive sensor
- Max. measurement speed over 1.5m/s
- The speed of value tracking 30times/s
- Absolute/incremental measurement
- Metric-inch conversion at any position
- Max./min. measurements searching and reservation
- Auto power off
- With data output port (DCB-05 / DWB-05)
- 8mm stem diameter (3/8" stem diameter optional)



| Range           | Resolution      | Accuracy        | Code No.         |                  |
|-----------------|-----------------|-----------------|------------------|------------------|
|                 |                 |                 | Metric           | Inch             |
| 0-12.7mm/0-.5"  | 0.001mm/.00005" | 0.004mm/.00015" | <b>31015-050</b> | <b>31025-050</b> |
| 0-25.4mm/0-1.0" | 0.001mm/.00005" | 0.005mm/.0002"  | <b>31015-100</b> | <b>31025-100</b> |
| 0-50.8mm/0-2.0" | 0.001mm/.00005" | 0.006mm/.0002"  | <b>31015-200</b> | <b>31025-200</b> |
| 0-12.7mm/0-.5"  | 0.01mm /.0005"  | 0.02mm /.001"   | <b>31015-051</b> | <b>31025-051</b> |
| 0-25.4mm/0-1.0" | 0.01mm /.0005"  | 0.02mm /.001"   | <b>31015-101</b> | <b>31025-101</b> |
| 0-50.8mm/0-2.0" | 0.01mm /.0005"  | 0.02mm /.001"   | <b>31015-201</b> | <b>31025-201</b> |



## Small Measuring Range Digital Indicator – 3 Buttons

Data  
Output

### Features:

- Small size, suitable for limited space
- Preset real position value
- Metric-Inch conversion at any position
- Glass capacitive sensor
- Absolute / incremental measurement
- With data output port (DCB-05 / DWB-05)
- 42mm dial plate diameter
- 8mm stem diameter (3/8" stem diameter optional)



| Range        | Resolution      | Accuracy | Code No.         |                  |
|--------------|-----------------|----------|------------------|------------------|
|              |                 |          | Metric           | Inch             |
| 0-5mm/0-4.0" | 0.001mm/.00005" | 0.004mm  | <b>31110-005</b> | <b>31120-005</b> |
| 0-5mm/0-4.0" | 0.01mm /.0005"  | 0.02mm   | <b>31110-001</b> | <b>31120-001</b> |



## Digital Indicator – Analog

Data  
Output

### Features:

- Digital and analog bar display
- Rotatable front panel for easy reading at any position
- The main body is made of aerometal
- Preset real position value
- Tolerance setting and automatic deviation judgment
- Run-out detection, storage of current measuring value
- Glass capacitive sensor
- Absolute/incremental measurement
- Metric-inch conversion at any position
- Max./min. measurements searching and reservation
- With data output port (DCB-05 / DWB-05)
- 8mm stem diameter (3/8" stem diameter optional)



| Range            | Resolution      | Accuracy       | Code No.         |
|------------------|-----------------|----------------|------------------|
| 0-6.5mm/ 0-0.25" | 0.001mm/.00005" | 0.005mm/.0002" | <b>31611-020</b> |
| 0-12.5mm/0- .5"  | 0.001mm/.00005" | 0.005mm/.0002" | <b>31611-050</b> |
| 0-25.0mm/0-1.0"  | 0.001mm/.00005" | 0.005mm/.0002" | <b>31611-100</b> |
| 0-50.0mm/0-2.0"  | 0.001mm/.00005" | 0.006mm/.0002" | <b>31611-200</b> |
| 0-6.5mm/ 0-0.25" | 0.002mm/.00005" | 0.02mm /.001"  | <b>31611-021</b> |
| 0-12.5mm/0- .5"  | 0.002mm /.0005" | 0.02mm /.001"  | <b>31611-051</b> |
| 0-25.0mm/0-1.0"  | 0.002mm /.0005" | 0.02mm /.001"  | <b>31611-101</b> |
| 0-50.0mm/0-2.0"  | 0.002mm /.0005" | 0.02mm /.001"  | <b>31611-201</b> |



## IP65 Micrometer Probe Line Gauge

IP65

### Features:

- IP65 waterproof protection level. Can be used in complex industrial control environment
- Precision bearing and patent guide structure, can use more than 2 million times
- Fast data transfer speed over 100 times/s
- RS232 and RS485 interface are optional. The transmission distance of 50 meters
- MODBUS protocol



31230-341

| Range   | Resolution | Accuracy | Code No.          | NOTE            |
|---------|------------|----------|-------------------|-----------------|
| 0-10 mm | 0.01mm     | 0.02mm   | <b>31230-141</b>  |                 |
| 0-10 mm | 0.01mm     | 0.02mm   | <b>31230-141C</b> | <b>Cylinder</b> |
| 0-25 mm | 0.01mm     | 0.02mm   | <b>31230-151</b>  |                 |
| 0-50 mm | 0.01mm     | 0.02mm   | <b>31230-161</b>  |                 |
| 0-10 mm | 0.001mm    | 0.004mm  | <b>31230-341</b>  |                 |
| 0-10 mm | 0.001mm    | 0.004mm  | <b>31230-341C</b> | <b>Cylinder</b> |
| 0-25 mm | 0.001mm    | 0.005mm  | <b>31230-351</b>  |                 |
| 0-50 mm | 0.001mm    | 0.006mm  | <b>31230-361</b>  |                 |



<https://www.mitechmetrology.com>

<https://mitechmetrology.en.made-in-China.com>

## IP67 Micrometer Probe Line Gauge

IP67

### Features:

- Absolute measuring system
- IP67 waterproof protection level. Can be used in complex industrial control environment
- Precision bearing and patent guide structure, can use more than 2 million times
- Fast data transfer speed over 100 times/s
- 485 bus interface. The transmission distance of 50 meters
- MODBUS protocol



31230-342

| Range   | Resolution | Accuracy | Code No.   | NOTE     |
|---------|------------|----------|------------|----------|
| 0-10 mm | 0.01mm     | 0.02mm   | 31230-142  |          |
| 0-10 mm | 0.01mm     | 0.02mm   | 31230-142C | Cylinder |
| 0-10 mm | 0.001mm    | 0.004mm  | 31230-342  |          |
| 0-10 mm | 0.001mm    | 0.004mm  | 31230-342C | Cylinder |



## Universal Dial Indicator

### Features:

#### ● Metric

- Steel body
- With adjustable tolerance marker and locking screw
- Jeweled bearing
- Flat back (metal lug back optional)
- 8mm stem diameter, 58mm dial plate diameter

| Range   | Graduation | Accuracy | Dial    | Code No.         |
|---------|------------|----------|---------|------------------|
| 0-1mm   | 0.001mm    | 0.005mm  | 0-100-0 | <b>32012-010</b> |
| 0-3mm   | 0.01mm     | 0.014mm  | 0-100   | <b>32012-031</b> |
| 0-5mm   | 0.01mm     | 0.016mm  | 0-100   | <b>32012-051</b> |
| 0-10mm  | 0.01mm     | 0.02mm   | 0-100   | <b>32012-101</b> |
| 0-25mm  | 0.01mm     | 0.025mm  | 0-100   | <b>32012-251</b> |
| 0-30mm  | 0.01mm     | 0.030mm  | 0-100   | <b>32012-301</b> |
| 0-50mm  | 0.01mm     | 0.040mm  | 0-100   | <b>32012-501</b> |
| 0-100mm | 0.01mm     | 0.050mm  | 0-100   | <b>32012-111</b> |

#### ● Inch

- Aluminum body
- With adjustable tolerance marker and locking screw
- Metal lug back is valid for standard
- 3/8" stem diameter, 2.28" dial plate diameter

| Range   | Graduation | Accuracy | Dial   | Code No.         |
|---------|------------|----------|--------|------------------|
| 0-0.05" | 0.0001"    | 0.0001"  | 0-100  | <b>32021-005</b> |
| 0-0.05" | 0.0001"    | 0.0001"  | 0-50-0 | <b>32021-006</b> |
| 0-0.25" | 0.0005"    | 0.0015"  | 0-50   | <b>32025-025</b> |
| 0-0.5"  | 0.0005"    | 0.002"   | 0-50   | <b>32025-050</b> |
| 0-1"    | 0.0005"    | 0.002"   | 0-50   | <b>33020-101</b> |
| 0-0.25" | 0.001"     | 0.002"   | 0-100  | <b>32020-025</b> |
| 0-0.5"  | 0.001"     | 0.002"   | 0-100  | <b>32020-050</b> |
| 0-1"    | 0.001"     | 0.002"   | 0-100  | <b>32020-100</b> |
| 0-2"    | 0.001"     | 0.004"   | 0-100  | <b>32020-200</b> |



## Dial Indicator (Shock Proof)

### Features:

- With shock-proof structure inside
- Jeweled bearing inside guarantee perfect sensitivity of indicator
- With adjustable tolerance marker and dial locking screw
- Jeweled bearing
- Flat back (metal lug back optional)
- 8mm stem diameter, 58mm dial plate diameter

| Range  | Graduation | Accuracy | Dial  | Code No.         |
|--------|------------|----------|-------|------------------|
| 0-3mm  | 0.01mm     | 0.014mm  | 0-100 | <b>32013-031</b> |
| 0-5mm  | 0.01mm     | 0.016mm  | 0-100 | <b>32013-051</b> |
| 0-10mm | 0.01mm     | 0.020mm  | 0-100 | <b>32013-101</b> |



## Dial Indicator (Dust Proof, Water Proof)

### Features:

- With adjustable tolerance marker
- Dust proof and water proof, IP54 protection level
- Measuring spindle sealed by means of rubber sleeve, preventing contamination by liquid and impurities
- Jeweled bearing
- Flat back (metal lug back optional)
- 8mm stem diameter, 58mm dial plate diameter

| Range  | Graduation | Accuracy | Dial  | Code No.         |
|--------|------------|----------|-------|------------------|
| 0-5mm  | 0.01mm     | 0.016mm  | 0-100 | <b>32111-051</b> |
| 0-10mm | 0.01mm     | 0.020mm  | 0-100 | <b>32111-101</b> |



## Dial Indicator – One Revolution Type for Error-free Reading

### Features:

- Steel body
- With adjustable tolerance marker and locking screw
- Jeweled bearing
- Shock proof structure
- Flat back (metal lug back optional)
- 8mm stem diameter, 58mm dial plate diameter



| Range   | Graduation | Accuracy | Dial    | Code No.         |
|---------|------------|----------|---------|------------------|
| ± 0.4mm | 0.01mm     | 0.01mm   | 40-0-40 | <b>32015-040</b> |

## Small Dial Indicator

### Features:

- Steel body
- Jeweled bearing
- Plastic flat back
- 8mm stem diameter, 42mm dial plate diameter

| Range | Graduation | Accuracy | Dial | Code No.         |
|-------|------------|----------|------|------------------|
| 0-3mm | 0.01mm     | 0.014mm  | 0-50 | <b>32014-031</b> |
| 0-5mm | 0.01mm     | 0.016mm  | 0-50 | <b>32014-051</b> |
| 0-8mm | 0.01mm     | 0.02mm   | 0-50 | <b>32014-081</b> |



## 3D Dial Test Indicator

### Features:

- Large high contrast dial face
- Large working range in all axes (X, Y, Z) prevent damage to the stylus by contacting errors
- Compact metal housing and 30mm long probe arm
- High accuracy and linearity
- 20mm stem diameter
- Can be used on milling and CNC machines to
  - Determine the zero position on work pieces
  - Determine the center of bores
  - Determine and correct the alignment of work piece and for the measurement of lengths and depths



| Range    |        | Graduation |        | Accuracy | Touch point Dial | Code No.  |
|----------|--------|------------|--------|----------|------------------|-----------|
| Axial    | Radial | Axial      | Radial |          |                  |           |
| 0-0.6 mm | 0-2 mm | 0.01mm     | 0.01mm | ± 0.04mm | SØ4mm            | 32030-000 |

## IP65 Digital Dial Test Indicator

- Resolution 0.001mm
- Inductive measurement system
- Analog display
- Response speed 0.05m/s
- 3V Lithium battery, battery life > 1 year
- Protection level IP65
- Data output port
- Auto power off
- Built in wireless transmission (optional)



| Range             | Resolution         | Accuracy          | Repeatability     | Code No.  |
|-------------------|--------------------|-------------------|-------------------|-----------|
| 0-0.8mm / 0-0.03" | 0.001mm / 0.00005" | 0.013mm / 0.0005" | 0.003mm / 0.0005" | 33301-021 |

## Dial Test Indicator

- Jeweled bearing
- Carbide contact point
- Steel, Carbide and Ruby contact point are optional
- Dial plate diameter 32mm  
(40mm big dial plate optional)



### ● Metric

| Range   | Graduation | Accuracy | Scale   | Contact Point Length | Code No.<br>(32mm Dia.) | Code No.<br>(40mm Dia.) |
|---------|------------|----------|---------|----------------------|-------------------------|-------------------------|
| 0-0.2mm | 0.002mm    | ±0.004mm | 0-100-0 | 16mm                 | 33011-020               | 33011-120               |
| 0-0.5mm | 0.01mm     | ±0.013mm | 0-25-0  | 19mm                 | 33011-051               | 33011-151               |
| 0-0.8mm | 0.01mm     | ±0.013mm | 0-40-0  | 19mm                 | 33011-081               | 33011-181               |
| 0-1.0mm | 0.01mm     | ±0.013mm | 0-50-0  | 19mm                 | 33011-011               | 33011-111               |

### ● Inch

| Range    | Graduation | Accuracy | Scale  | Contact Point Length | Code No.<br>(32mm Dia.) |
|----------|------------|----------|--------|----------------------|-------------------------|
| 0-0.008" | 0.0001"    | ±0.0001" | 0-4-0  | 16mm                 | 33021-020               |
| 0-0.03"  | 0.0005"    | ±0.0005" | 0-15-0 | 19mm                 | 33021-081               |

## Vertical Dial Test Indicator

- Jeweled bearing
- Carbide contact point
- Steel, Carbide and Ruby contact point are optional
- Dial plate diameter 32mm  
(40mm big dial plate optional)



### ● Metric

| Range   | Graduation | Accuracy | Scale   | Contact Point Length | Code No.<br>(32mm Dia.) | Code No.<br>(40mm Dia.) |
|---------|------------|----------|---------|----------------------|-------------------------|-------------------------|
| 0-0.2mm | 0.002mm    | ±0.004mm | 0-100-0 | 16mm                 | 33012-020               | 33012-120               |
| 0-0.5mm | 0.01mm     | ±0.013mm | 0-25-0  | 19mm                 | 33012-051               | 33012-151               |
| 0-0.8mm | 0.01mm     | ±0.013mm | 0-40-0  | 19mm                 | 33012-081               | 33012-181               |
| 0-1.0mm | 0.01mm     | ±0.013mm | 0-50-0  | 19mm                 | 33012-011               | 33012-111               |

### ● Inch

| Range    | Graduation | Accuracy | Scale  | Contact Point Length | Code No.<br>(32mm Dia.) |
|----------|------------|----------|--------|----------------------|-------------------------|
| 0-0.008" | 0.0001"    | ±0.0001" | 0-4-0  | 16mm                 | 33022-020               |
| 0-0.03"  | 0.0005"    | ±0.0005" | 0-15-0 | 19mm                 | 33022-081               |

## Large Range Dial Test Indicator

- Jeweled bearing
- Carbide contact point
- Steel, Carbide and Ruby contact point are optional
- Dial plate diameter 32mm (40mm big dial plate optional)
- Both horizontal and vertical types are optional



Horizontal Type



### ● Metric

| Range                  | Graduation | Accuracy | Scale  | Contact Point Length | Code No. (32mm Dia.) | Code No. (40mm Dia.) |
|------------------------|------------|----------|--------|----------------------|----------------------|----------------------|
| <b>Horizontal Type</b> |            |          |        |                      |                      |                      |
| 0-1.6mm                | 0.01mm     | ±0.02mm  | 0-40-0 | 19mm                 | 33013-161            | 33013-261            |
| <b>Vertical Type</b>   |            |          |        |                      |                      |                      |
| 0-1.6mm                | 0.01mm     | ±0.02mm  | 0-40-0 | 19mm                 | 33014-161            | 33014-261            |

### ● Inch

| Range                  | Graduation | Accuracy | Scale  | Contact Point Length | Code No. (32mm Dia.) | Code No. (40mm Dia.) |
|------------------------|------------|----------|--------|----------------------|----------------------|----------------------|
| <b>Horizontal Type</b> |            |          |        |                      |                      |                      |
| 0-0.06"                | 0.0005"    | ±0.0012" | 0-15-0 | 19mm                 | 33023-160            | 33023-260            |
| 0-0.06"                | 0.001"     | ±0.0012" | 0-15-0 | 19mm                 | 33023-161            | 33023-261            |
| <b>Vertical Type</b>   |            |          |        |                      |                      |                      |
| 0-0.06"                | 0.0005"    | ±0.0012" | 0-15-0 | 16mm                 | 33024-160            | 33024-260            |
| 0-0.06"                | 0.001"     | ±0.0012" | 0-15-0 | 19mm                 | 33024-161            | 33024-261            |

## Accessories for Indicator

### Swivel Clamp



| Dia. Of Clamp Hole  | Code No   |
|---------------------|-----------|
| 4.0/8.0/Dovetail    | 70002-001 |
| 6.0/8.0/Dovetail    | 70002-004 |
| 3/8"/5/32"/Dovetail | 70002-003 |

### Centering Holder



| Dia. of Clamp Hole | Dia. of Stem | Code No   |
|--------------------|--------------|-----------|
| 4mm                | 8mm          | 70002-004 |
| 5/32"              | 1/4"         | 70002-005 |

### Holding Bar



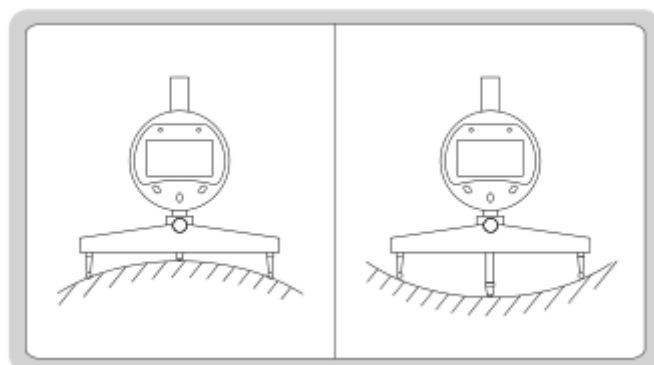
| Dimension | Code No   |
|-----------|-----------|
| 9x9x50    | 70001-001 |
| 9x9x100   | 70001-002 |
| 10x12x50  | 70001-003 |
| 10x12x100 | 70001-004 |

## Digital Radius Gauge

Data  
Output

### Features:

- Measure radius of internal and external arcs. Actual reading of radius of circular arc at any size. Portable size and easy to operate with fast measurement result. Widely used in any circular arc measurement
- Supplied with 5 jaws for different sizes of arc. Claws in wide range of measurement span available for different circular arc radius and measurement precision requirement
- Percentage reading display
- Auto / Manual power off
- Indicator max. travel distance is 12.5mm
- Measuring range of radius is from 5mm to 700mm
- The main body is made by aerometal
- Packed in plastic box



| Measuring Range (Radius) | Resolution      | Measuring Accuracy | Code No   |
|--------------------------|-----------------|--------------------|-----------|
| 5-700mm                  | 0.005mm/0.0005" | < 1%               | 79030-030 |

### Best Measurement Range

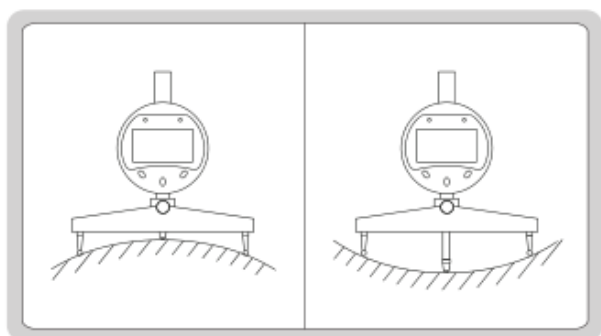
| Jaw   | Measuring range (External) | Measuring range (Internal) |
|-------|----------------------------|----------------------------|
| C=10  | R 5–13 mm                  | R 6.5–15 mm                |
| C=20  | R 11–30 mm                 | R 14–30 mm                 |
| C=30  | R 22–100 mm                | R 27–100 mm                |
| C=60  | R 94–260 mm                | R 94–260 mm                |
| C=100 | R 255–700 mm               | R 255–700 mm               |

## Digital Large Radius Gauge

Data  
Output

### Features:

- Measure radius of internal and external arcs. Actual reading of radius of circular arc at any size. Portable size and easy to operate with fast measurement result. Widely used in any circular arc measurement
- Supplied with 200mm jaw, especially for large size radius measurement
- Percentage reading display
- Auto / Manual power off
- Indicator max. travel distance is 50mm
- Measuring range of radius is from 450mm to 9999.99mm (The best measuring range is from 450mm to 2500mm)
- The main body is made by aerometal
- Packed in plastic box



| Indicator Range | Measuring Range (Radius) | Resolution      | Indicator Accuracy | Measuring Accuracy | Code No   |
|-----------------|--------------------------|-----------------|--------------------|--------------------|-----------|
| 0-50.8mm        | 450-2500mm               | 0.005mm/0.0005" | 0.03mm             | < 1%               | 79030-050 |

### Best Measurement Range

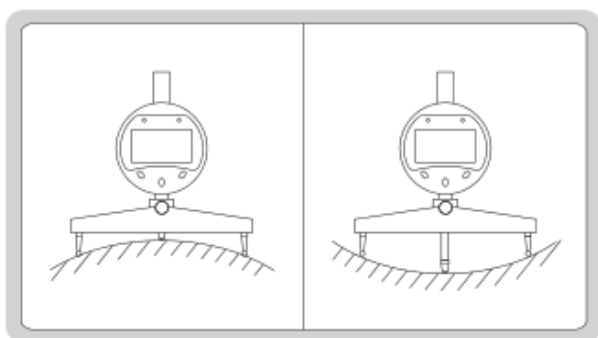
| Jaw   | Measuring range (External) | Measuring range (Internal) |
|-------|----------------------------|----------------------------|
| C=200 | R 450–2500 mm              | R 450–2500 mm              |

## Digital Radius Gauge (Customization)

Data  
Output

### Features:

- Measure radius of internal and external arcs. Actual reading of radius of circular arc. Portable size and easy to operate with fast measurement result. Widely used in any circular arc measurement
- Supplied with set jaws of size 100mm, 200mm and 300mm. Customer can choose according to application.
- Auto / Manual power off
- Indicator max. travel distance is 50mm
- The main body is made by aerometal
- Packed in Aluminum box



| Indicator Range | Resolution     | Best Measuring Range (Radius) | Quantity of Jaws | Radius Measuring Accuracy | Code No   |
|-----------------|----------------|-------------------------------|------------------|---------------------------|-----------|
| 0-50mm          | 0.01mm/0.0005" | 65-2500mm                     | 2                | < 1%                      | 79030-200 |
| 0-50mm          | 0.01mm/0.0005" | 65-11250mm                    | 3                | < 1%                      | 79030-300 |
| 0-50mm          | 0.01mm/0.0005" | 65-20000mm                    | 4                | < 1%                      | 79030-400 |
| 0-50mm          | 0.01mm/0.0005" | 650-11250 mm                  | 1                | < 1%                      | 79030-301 |
| 0-50mm          | 0.01mm/0.0005" | 1150-20000mm                  | 1                | < 1%                      | 79030-401 |

### Best Measurement Range

| Jaw   | Measuring range (External) | Measuring range (Internal) |
|-------|----------------------------|----------------------------|
| C=100 | R 65-625 mm                | R 65-625 mm                |
| C=200 | R 450-2500 mm              | R 450-2500 mm              |
| C=300 | R 650-11250 mm             | R 650-11250 mm             |
| C=400 | R 1150-20000 mm            | R 1150-20000 mm            |

## Single Beam Digital Height Gauge

### Features

- Large LCD display
- With fine adjustment and hand wheel design for easy use
- Metric-Inch conversion at any position
- Zero setting at any position
- Preset setting function
- Carbide tipped scriber provided

| Range         | Resolution     | Accuracy        | Code No.         |
|---------------|----------------|-----------------|------------------|
| 0-300mm/0-12" | 0.01mm/0.0005" | ±0.04mm/0.0016" | <b>71101-121</b> |
| 0-500mm/0-20" | 0.01mm/0.0005" | ±0.05mm/0.002"  | <b>71101-201</b> |
| 0-600mm/0-24" | 0.01mm/0.0005" | ±0.05mm/0.002"  | <b>71101-241</b> |



## Single Beam Digital Height Gauge

### Features

- Large LCD display
- With fine adjustment for easy use
- Metric-Inch conversion at any position
- Zero setting at any position
- Preset and tolerance setting function
- Carbide tipped scriber provided

| Range          | Resolution     | Accuracy        | Code No.         |
|----------------|----------------|-----------------|------------------|
| 0-300mm/0-12"  | 0.01mm/0.0005" | ±0.04mm/0.0016" | <b>71102-121</b> |
| 0-500mm/0-20"  | 0.01mm/0.0005" | ±0.05mm/0.002"  | <b>71102-201</b> |
| 0-600mm/0-24"  | 0.01mm/0.0005" | ±0.05mm/0.002"  | <b>71102-241</b> |
| 0-800mm/0-32"  | 0.01mm/0.0005" | ±0.06mm/0.0024" | <b>71102-321</b> |
| 0-1000mm/0-40" | 0.01mm/0.0005" | ±0.07mm/0.0028" | <b>71102-401</b> |



## IP65 Water-Proof Digital Height Gauge



Data  
Output

IP65

### Features

- Inductive Measurement system. IP65 protection level
- External digital data input function, no need to repeat, dial "0" to achieve rapid detection
- Powered by CR2450 lithium battery. Built in external power port
- Carbide tipped scriber provided
- SPC data output; Built-in wireless is optional (Alternative)

| Range         | Resolution      | Accuracy        | Code No.         |
|---------------|-----------------|-----------------|------------------|
| 0-300mm/0-12" | 0.01mm/0.0005"  | ±0.03mm/0.001"  | <b>71140-031</b> |
| 0-600mm/0-24" | 0.01mm/0.0005"  | ±0.05mm/0.002"  | <b>71140-061</b> |
| 0-300mm/0-12" | 0.001mm/.00005" | ±0.02mm/0.0008" | <b>71140-032</b> |
| 0-600mm/0-24" | 0.001mm/.00005" | ±0.04mm/0.0015" | <b>71140-062</b> |



## Double Beam Digital Height Gauge

### Features

- Large LCD display
- With hand wheel for easy use
- Resolution can be converted between 0.01mm and 0.005mm or 0.0005" and 0.0001"
- Metric-Inch conversion at any position
- Display hold function
- Preset setting function
- Carbide tipped scriber provided
- With SPC data output, Built-in wireless is optional

| Range         | Resolution    | Accuracy         | Code No.         |
|---------------|---------------|------------------|------------------|
| 0-300mm/0-12" | 0.01mm/0.001" | ± 0.02mm/0.001"  | <b>71201-121</b> |
| 0-450mm/0-18" | 0.01mm/0.001" | ± 0.03mm/0.0015" | <b>71201-181</b> |
| 0-600mm/0-24" | 0.01mm/0.001" | ± 0.03mm/0.0015" | <b>71201-241</b> |



Data  
Output



## Double Beam Digital Height Gauge

### Features

- Large LCD display; Display hold function
- External data input function from digital indicator, start testing rapidly, no need to reset "0" frequently
- Powered by CR2450 lithium battery. Built-in external power port
- Carbide tipped scriber provided
- With SPC data output; Built-in wireless is optional

| Range         | Resolution     | Accuracy         | Code No.         |
|---------------|----------------|------------------|------------------|
| 0-300mm/0-12" | 0.01mm/0.0005" | ± 0.02mm/0.001"  | <b>71202-121</b> |
| 0-450mm/0-18" | 0.01mm/0.0005" | ± 0.03mm/0.0015" | <b>71202-181</b> |
| 0-600mm/0-24" | 0.01mm/0.0005" | ± 0.03mm/0.0015" | <b>71202-241</b> |



## Double Bean Digital Height Gauge

### Features

- Large LCD display; Display hold function
- External data input function from digital indicator, start testing rapidly, no need to reset "0" frequently
- Powered by CR2450 lithium battery. Built-in external power port
- Tolerance detection, with sign and red/green backlight indicating (backlight only works when external power is used)
- Carbide tipped scriber provided
- With SPC data output; Built-in wireless is optional
- Hight accuracy, 0.01mm/0.001mm resolution conversion
- Plastic box package

| Range         | Resolution              | Accuracy         | Code No.         |
|---------------|-------------------------|------------------|------------------|
| 0-300mm/0-12" | 0.01mm0.001mm//0.00005" | ± 0.02mm/0.001"  | <b>71203-121</b> |
| 0-600mm/0-24" | 0.01mm/0.001mm/0.00005" | ± 0.03mm/0.0015" | <b>71203-241</b> |



## Double Beam Dial Height Gauge

### Features

- Position is displayed by a combination of the digit counter and dial
- With hand wheel for easy use
- Carbide tipped scriber provided

| Range          | Resolution    | Accuracy         | Code No.<br>Metric | Code No.<br>Inch |
|----------------|---------------|------------------|--------------------|------------------|
| 0-300mm/0-12"  | 0.01mm/0.001" | ± 0.04mm/0.0015" | <b>72211-121</b>   | <b>72221-121</b> |
| 0-450mm/0-18"  | 0.01mm/0.001" | ± 0.05mm/0.002"  | <b>72211-181</b>   | <b>72221-181</b> |
| 0-600mm/0-24"  | 0.01mm/0.001" | ± 0.05mm/0.002"  | <b>72211-241</b>   | <b>72221-241</b> |
| 0-1000mm/0-40" | 0.01mm/0.001" | ± 0.07mm/0.003"  | <b>72211-401</b>   | <b>72221-401</b> |



## IP65 Digital Z-Axis Zero Setter

IP65

### Features

- Inductive measurement system
- IP65 protection level
- Repeatability is 0.003mm / 0.0001"
- Light indicating at "0"
- mm/inch unit convertible
- Auto power off and power on



| Range           | Resolution         | Accuracy          | Height | Code No.         |
|-----------------|--------------------|-------------------|--------|------------------|
| <2.5 mm / <0.1" | 0.001mm / 0.00005" | 0.008mm / 0.0003" | 50 mm  | <b>71031-050</b> |
| <2.5 mm / <0.1" | 0.001mm / 0.00005" | 0.01mm / 0.0004"  | 100 mm | <b>71031-100</b> |

## Dial Z-Axis Zero Setter

### Features

- with magnet on base for fixing



| Range | Resolution | Accuracy | Height | Code No.         |
|-------|------------|----------|--------|------------------|
| 2 mm  | 0.01mm     | ± 0.01mm | 50 mm  | <b>71032-050</b> |
| 2 mm  | 0.01mm     | ± 0.01mm | 100 mm | <b>71032-100</b> |

## Gauge Blocks Sets

### Features

- Compliance with standard DIN EN ISO 3650
- Individual serial number on each block
- Mirror polished surfaces provide superior characteristics
- Steel, Carbide and Ceramic materials are optional
- Provided with inspection report



### Metric

| Pieces per Set | Blocks Included in Set                                                                                                                                                                | Grade | Item Code (Steel) | Item Code (Carbide) | Item Code (Ceramic) |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------|---------------------|---------------------|
| 8              | 8 Blocks: 25-200mm, 25mm step                                                                                                                                                         | 0     | 80008-100         | -                   | -                   |
|                |                                                                                                                                                                                       | 1     | 80008-101         | -                   | -                   |
|                |                                                                                                                                                                                       | 2     | 80008-102         | -                   | -                   |
| 8              | 3 Blocks: 125-175mm, 25mm step<br>2 Blocks: 200-250mm, 50mm step<br>3 Blocks: 300-500mm, 100mm step                                                                                   | 0     | 80008-200         | -                   | -                   |
|                |                                                                                                                                                                                       | 1     | 80008-201         | -                   | -                   |
|                |                                                                                                                                                                                       | 2     | 80008-202         | -                   | -                   |
| 32             | 1 Block: 1.005mm<br>9 Blocks: 1.01 – 1.09mm, 0.01mm step<br>9 Blocks: 1.1 – 1.9mm, 0.1mm step<br>9 Blocks: 1 – 9mm, 1mm step<br>4 Blocks: 10mm, 20mm, 30mm, 50mm                      | 0     | 80032-100         | 80032-100H          | 80032-100C          |
|                |                                                                                                                                                                                       | 1     | 80032-101         | 80032-101H          | 80032-101C          |
|                |                                                                                                                                                                                       | 2     | 80032-102         | 80032-102H          | -                   |
| 38             | 1 Block: 1.005mm<br>9 Blocks: 1.01 – 1.09mm, 0.01mm step<br>9 Blocks: 1.1 – 1.9mm, 0.1mm step<br>9 Blocks: 1 – 9mm, 1mm step<br>10 Blocks: 10 - 100mm, 10mm step                      | 0     | 80038-100         | 80038-100H          | 80038-100C          |
|                |                                                                                                                                                                                       | 1     | 80038-101         | 80038-101H          | 80038-101C          |
|                |                                                                                                                                                                                       | 2     | 80038-102         | 80038-102H          | -                   |
| 46             | 9 Block: 1.001 -1.009mm, 0.001mm step<br>9 Blocks: 1.01 – 1.09mm, 0.01mm step<br>9 Blocks: 1.1 – 1.9mm, 0.1mm step<br>9 Blocks: 1 – 9mm, 1mm step<br>10 Blocks: 10 - 100mm, 10mm step | 0     | 80046-100         | 80046-100H          | 80047-100C          |
|                |                                                                                                                                                                                       | 1     | 80046-101         | 80046-101H          | 80047-101C          |
|                |                                                                                                                                                                                       | 2     | 80046-102         | 80046-102H          | -                   |

|     |                                                                                                                                                                                                                                   |   |                  |                   |                   |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------|-------------------|-------------------|
| 47  | 1 Block: 1.005mm<br>20 Blocks: 1.01 – 1.20mm, 0.01mm step<br>7 Blocks: 1.3 – 1.9mm, 0.1mm step<br>9 Blocks: 1 – 9mm, 1mm step<br>10 Blocks: 10 - 100mm, 10mm step                                                                 | 0 | <b>80047-100</b> | <b>80047-100H</b> | <b>80047-100C</b> |
|     |                                                                                                                                                                                                                                   | 1 | <b>80047-101</b> | <b>80047-101H</b> | <b>80047-101C</b> |
|     |                                                                                                                                                                                                                                   | 2 | <b>80047-102</b> | <b>80047-102H</b> | -                 |
| 83  | 1 Block: 0.5mm<br>1 Block: 1mm<br>1 Block: 1.005mm<br>49 Blocks: 1.01 – 1.49mm, 0.01mm step<br>5 Blocks: 1.5 – 1.9mm, 0.1mm step<br>16 Blocks: 2.0 – 9.5mm, 0.5mm step<br>10 Blocks: 10 - 100mm, 10mm step                        | 0 | <b>80083-100</b> | <b>80083-100H</b> | <b>80083-100C</b> |
|     |                                                                                                                                                                                                                                   | 1 | <b>80083-101</b> | <b>80083-101H</b> | <b>80083-101C</b> |
|     |                                                                                                                                                                                                                                   | 2 | <b>80083-102</b> | <b>80083-102H</b> | -                 |
| 87  | 9 Blocks: 1.001 – 1.009mm, 0.001mm step<br>49 Blocks: 1.01 – 1.49mm, 0.01mm step<br>19 Blocks: 0.5 – 9.5mm, 0.5mm step<br>10 Blocks: 10 - 100mm, 10mm step                                                                        | 0 | <b>80087-100</b> | <b>80087-100H</b> | <b>80087-100C</b> |
|     |                                                                                                                                                                                                                                   | 1 | <b>80087-101</b> | <b>80087-101H</b> | <b>80087-101C</b> |
|     |                                                                                                                                                                                                                                   | 2 | <b>80087-102</b> | <b>80087-102H</b> | -                 |
| 103 | 1 Block: 1.005mm<br>49 Blocks: 1.01 – 1.49mm, 0.01mm step<br>49 Blocks: 0.5 – 24.5mm, 0.5mm step<br>4 Blocks: 25 - 100mm, 25mm step                                                                                               | 0 | <b>80103-100</b> | <b>80103-100H</b> | <b>80103-100C</b> |
|     |                                                                                                                                                                                                                                   | 1 | <b>80103-101</b> | <b>80103-101H</b> | <b>80103-101C</b> |
|     |                                                                                                                                                                                                                                   | 2 | <b>80103-102</b> | <b>80103-102H</b> | -                 |
| 112 | 1 Block: 1.0005mm<br>9 Blocks: 1.001 – 1.009mm, 0.001mm step<br>49 Blocks: 1.01 – 1.49mm, 0.01mm step<br>49 Blocks: 0.5 – 24.5mm, 0.5mm step<br>4 Blocks: 25 - 100mm, 25mm step                                                   | 0 | <b>80112-100</b> | <b>80112-100H</b> | <b>80112-100C</b> |
|     |                                                                                                                                                                                                                                   | 1 | <b>80112-101</b> | <b>80112-101H</b> | <b>80112-101C</b> |
|     |                                                                                                                                                                                                                                   | 2 | <b>80112-102</b> | <b>80112-102H</b> | -                 |
| 122 | 1 Block: 1.0005mm<br>9 Blocks: 1.001 – 1.009mm, 0.001mm step<br>49 Blocks: 1.01 – 1.49mm, 0.01mm step<br>4 Blocks: 1.6-1.9mm, 0.1mm step<br>50 Blocks: 0.5 – 25mm, 0.5mm step<br>8 Blocks: 30- 100mm, 10mm step<br>1 Blocks: 75mm | 0 | <b>80122-100</b> | <b>80122-100H</b> | <b>80122-100C</b> |
|     |                                                                                                                                                                                                                                   | 1 | <b>80122-101</b> | <b>80122-101H</b> | <b>80122-101C</b> |
|     |                                                                                                                                                                                                                                   | 2 | <b>80122-102</b> | <b>80122-102H</b> | -                 |

## Inch

| Pieces per Set | Blocks Included in Set                                                                                                                                                                                          | Grade | Item Code (Steel) |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------|
| 36             | 1 Block: 0.050"<br>9 Blocks: 0.1001" – 0.1009", 0.0001" step<br>9 Blocks: 0.101" – 0.109", 0.001 step<br>9 Blocks: 0.110" – 0.190", 0.010 step<br>5 Blocks: 0.100" – 0.500", 0.100 step<br>3 Blocks: 1", 2", 4" | 0     | <b>80036-AS0</b>  |
|                |                                                                                                                                                                                                                 | AS-1  | <b>80036-AS1</b>  |
|                |                                                                                                                                                                                                                 | AS-2  | <b>80036-AS2</b>  |
| 81             | 9 Blocks: 0.1001" – 0.1009", 0.0001" step<br>49 Blocks: 0.101" – 0.149", 0.001 step<br>19 Blocks: 0.050" – 0.950", 0.050 step<br>4 Blocks: 1.000" – 4.000", 1.000 step                                          | 0     | <b>80081-AS0</b>  |
|                |                                                                                                                                                                                                                 | AS-1  | <b>80081-AS1</b>  |
|                |                                                                                                                                                                                                                 | AS-2  | <b>80081-AS2</b>  |

## Gauge Blocks (Individual)

### Features

- Individual serial number on each block
- Mirror polished surfaces
- Steel, Carbide and Ceramic materials are optional
- Provided with inspection report.
- Compliance with standard DIN EN ISO 3650



### GRADE 0

| Size    | Item Code   |            |            |
|---------|-------------|------------|------------|
|         | Steel       | Carbide    | Ceramic    |
| 0.5mm   | 80100-050   | 80100-050H | 80100-050C |
| 1.0mm   | 80100-100   | 80100-100H | 80100-100C |
| 1.005mm | 80200-100   | 80200-100H | 80200-100C |
| 1.01mm  | 80100-101   | 80100-101H | 80100-101C |
| 1.02mm  | 80100-102   | 80100-102H | 80100-102C |
| 1.03mm  | 80100-103   | 80100-103H | 80100-103C |
| ...     | 0.01mm step |            |            |
| 1.49mm  | 80100-149   | 80100-149H | 80100-149C |
| 1.50mm  | 80100-150   | 80100-150H | 80100-150C |
| 1.60mm  | 80100-160   | 80100-160H | 80100-160C |
| ...     | 0.1mm step  |            |            |
| 1.90mm  | 80100-190   | 80100-190H | 80100-190C |
| 2.00mm  | 80100-200   | 80100-200H | 80100-200C |
| 2.50mm  | 80100-250   | 80100-250H | 80100-250C |
| 3.00mm  | 80100-300   | 80100-300H | 80100-300C |
| ...     | 0.5mm step  |            |            |
| 24.50mm | 80102-450   | 80102-450H | 80102-450C |
| 25.00mm | 80102-500   | 80102-500H | 80102-500C |
| 30.00mm | 80103-000   | 80103-000H | 80103-000C |

### GRADE 1

| Size    | Item Code   |            |            |
|---------|-------------|------------|------------|
|         | Steel       | Carbide    | Ceramic    |
| 0.5mm   | 81100-050   | 81100-050H | 81100-050C |
| 1.0mm   | 81100-100   | 81100-100H | 81100-100C |
| 1.005mm | 81200-100   | 81200-100H | 81200-100C |
| 1.01mm  | 81100-101   | 81100-101H | 81100-101C |
| 1.02mm  | 81100-102   | 81100-102H | 81100-102C |
| 1.03mm  | 81100-103   | 81100-103H | 81100-103C |
| ...     | 0.01mm step |            |            |
| 1.49mm  | 81100-149   | 81100-149H | 81100-149C |
| 1.50mm  | 81100-150   | 81100-150H | 81100-150C |
| 1.60mm  | 81100-160   | 81100-160H | 81100-160C |
| ...     | 0.1mm step  |            |            |
| 1.90mm  | 81100-190   | 81100-190H | 81100-190C |
| 2.00mm  | 81100-200   | 81100-200H | 81100-200C |
| 2.50mm  | 81100-250   | 81100-250H | 81100-250C |
| 3.00mm  | 81100-300   | 81100-300H | 81100-300C |
| ...     | 0.5mm step  |            |            |
| 24.50mm | 81102-450   | 81102-450H | 81102-450C |
| 25.00mm | 81102-500   | 81102-500H | 81102-500C |
| 30.00mm | 81103-000   | 81103-000H | 81103-000C |

|          |                  |                   |                   |
|----------|------------------|-------------------|-------------------|
| 40.00mm  | <b>80104-000</b> | <b>80104-000H</b> | <b>80104-000C</b> |
| 50.00mm  | <b>80105-000</b> | <b>80105-000H</b> | <b>80105-000C</b> |
| ...      | 10mm step        |                   |                   |
| 100.00mm | <b>80110-000</b> | <b>80110-000H</b> | -                 |

|          |                  |                   |                   |
|----------|------------------|-------------------|-------------------|
| 40.00mm  | <b>81104-000</b> | <b>81104-000H</b> | <b>81104-000C</b> |
| 50.00mm  | <b>81105-000</b> | <b>81105-000H</b> | <b>81105-000C</b> |
| ...      | 10mm step        |                   |                   |
| 100.00mm | <b>81110-000</b> | <b>81110-000H</b> | <b>81110-000C</b> |

## Pin Gauge Sets

### Features

- Mirror polished surface provides superior characteristics
- Accuracy:  $\pm 0.001\text{mm}$
- Hardened ( $62\pm 2$  HRC)
- Wooden box package
- Steel and Ceramic materials are optional
- 70mm length is optional for steel pin gauges only
- Compliance with standard DIN 2269



### 51 PCs Set

| PCs Per Set | Range                       | Item Code (L=50mm)<br>(Accuracy $\pm 1\mu\text{m}$ ) | Item Code (L=70mm)<br>(Accuracy $\pm 1\mu\text{m}$ ) |
|-------------|-----------------------------|------------------------------------------------------|------------------------------------------------------|
| 51          | 0.50-1.00 mm, 0.01mm step   | 30-0051-51                                           | 37-0051-51                                           |
| 51          | 1.00-1.50 mm, 0.01mm step   | 30-0102-51                                           | 37-0102-51                                           |
| 51          | 1.50-2.00 mm, 0.01mm step   | 30-0102-61                                           | 37-0102-61                                           |
| 51          | 2.00-2.50 mm, 0.01mm step   | 30-0203-51                                           | 37-0203-51                                           |
| 51          | 2.50-3.00 mm, 0.01mm step   | 30-0203-61                                           | 37-0203-61                                           |
| 51          | 3.00-3.50 mm, 0.01mm step   | 30-0304-51                                           | 37-0304-51                                           |
| 51          | 3.50-4.00 mm, 0.01mm step   | 30-0304-61                                           | 37-0304-61                                           |
| 51          | 4.00-4.50 mm, 0.01mm step   | 30-0405-51                                           | 37-0405-51                                           |
| 51          | 4.50-5.00 mm, 0.01mm step   | 30-0405-61                                           | 37-0405-61                                           |
| 51          | 5.00-5.50 mm, 0.01mm step   | 30-0506-51                                           | 37-0506-51                                           |
| 51          | 5.50-6.00 mm, 0.01mm step   | 30-0506-61                                           | 37-0506-61                                           |
| 51          | 6.00-6.50 mm, 0.01mm step   | 30-0607-51                                           | 37-0607-51                                           |
| 51          | 6.50-7.00 mm, 0.01mm step   | 30-0607-61                                           | 37-0607-61                                           |
| 51          | 7.00-7.50 mm, 0.01mm step   | 30-0708-51                                           | 37-0708-51                                           |
| 51          | 7.50-8.00 mm, 0.01mm step   | 30-0708-61                                           | 37-0708-61                                           |
| 51          | 8.00-8.50 mm, 0.01mm step   | 30-0809-51                                           | 37-0809-51                                           |
| 51          | 8.50-9.00 mm, 0.01mm step   | 30-0809-61                                           | 37-0809-61                                           |
| 51          | 9.00-9.50 mm, 0.01mm step   | 30-0910-51                                           | 37-0910-51                                           |
| 51          | 9.50-10.00 mm, 0.01mm step  | 30-0910-61                                           | 37-0910-61                                           |
| 51          | 10.00-10.50 mm, 0.01mm step | 30-1011-51                                           | 37-1011-51                                           |
| 51          | 10.50-11.00 mm, 0.01mm step | 30-1011-61                                           | 37-1011-61                                           |
| 51          | 11.00-11.50 mm, 0.01mm step | 30-1112-51                                           | 37-1112-51                                           |
| 51          | 11.50-12.00 mm, 0.01mm step | 30-1112-61                                           | 37-1112-61                                           |
| 51          | 12.00-12.50 mm, 0.01mm step | 30-1213-51                                           | 37-1213-51                                           |

|    |                             |                   |                   |
|----|-----------------------------|-------------------|-------------------|
| 51 | 12.50-13.00 mm, 0.01mm step | <b>30-1213-61</b> | <b>37-1213-61</b> |
| 51 | 13.00-13.50 mm, 0.01mm step | <b>30-1314-51</b> | <b>37-1314-51</b> |
| 51 | 13.50-14.00 mm, 0.01mm step | <b>30-1314-61</b> | <b>37-1314-61</b> |
| 51 | 14.00-14.50 mm, 0.01mm step | <b>30-1415-51</b> | <b>37-1415-51</b> |
| 51 | 14.50-15.00 mm, 0.01mm step | <b>30-1415-61</b> | <b>37-1415-61</b> |
| 51 | 15.00-15.50 mm, 0.01mm step | <b>30-1516-51</b> | <b>37-1516-51</b> |
| 51 | 15.50-16.00 mm, 0.01mm step | <b>30-1516-61</b> | <b>37-1516-61</b> |
| 51 | 16.00-16.50 mm, 0.01mm step | <b>30-1617-51</b> | <b>37-1617-51</b> |
| 51 | 16.50-17.00 mm, 0.01mm step | <b>30-1617-61</b> | <b>37-1617-61</b> |
| 51 | 17.00-17.50 mm, 0.01mm step | <b>30-1718-51</b> | <b>37-1718-51</b> |
| 51 | 17.50-18.00 mm, 0.01mm step | <b>30-1718-61</b> | <b>37-1718-61</b> |
| 51 | 18.00-18.50 mm, 0.01mm step | <b>30-1819-51</b> | <b>37-1819-51</b> |
| 51 | 18.50-19.00 mm, 0.01mm step | <b>30-1819-61</b> | <b>37-1819-61</b> |
| 51 | 19.00-19.50 mm, 0.01mm step | <b>30-1920-51</b> | <b>37-1920-51</b> |
| 51 | 19.50-20.00 mm, 0.01mm step | <b>30-1920-61</b> | <b>37-1920-61</b> |

## 101 PCs Set

| PCs Per Set | Range                       | Item Code (L=50mm)<br>(Accuracy $\pm 1\mu\text{m}$ ) | Item Code (L=70mm)<br>(Accuracy $\pm 1\mu\text{m}$ ) |
|-------------|-----------------------------|------------------------------------------------------|------------------------------------------------------|
| 101         | 1.00-2.00 mm, 0.01mm step   | <b>30-0102-01</b>                                    | <b>37-0102-01</b>                                    |
| 101         | 2.00-3.00 mm, 0.01mm step   | <b>30-0203-01</b>                                    | <b>37-0203-01</b>                                    |
| 101         | 3.00-4.00 mm, 0.01mm step   | <b>30-0304-01</b>                                    | <b>37-0304-01</b>                                    |
| 101         | 4.00-5.00 mm, 0.01mm step   | <b>30-0405-01</b>                                    | <b>37-0405-01</b>                                    |
| 101         | 5.00-6.00 mm, 0.01mm step   | <b>30-0506-01</b>                                    | <b>37-0506-01</b>                                    |
| 101         | 6.00-7.00 mm, 0.01mm step   | <b>30-0607-01</b>                                    | <b>37-0607-01</b>                                    |
| 101         | 7.00-8.00 mm, 0.01mm step   | <b>30-0708-01</b>                                    | <b>37-0708-01</b>                                    |
| 101         | 8.00-9.00 mm, 0.01mm step   | <b>30-0809-01</b>                                    | <b>37-0809-01</b>                                    |
| 101         | 9.00-10.00 mm, 0.01mm step  | <b>30-0910-01</b>                                    | <b>37-0910-01</b>                                    |
| 101         | 10.00-11.00 mm, 0.01mm step | <b>30-1011-01</b>                                    | -                                                    |
| 101         | 11.00-12.00 mm, 0.01mm step | <b>30-1112-01</b>                                    | -                                                    |
| 101         | 12.00-13.00 mm, 0.01mm step | <b>30-1213-01</b>                                    | -                                                    |
| 101         | 13.00-14.00 mm, 0.01mm step | <b>30-1314-01</b>                                    | -                                                    |
| 101         | 14.00-15.00 mm, 0.01mm step | <b>30-1415-01</b>                                    | -                                                    |
| 101         | 15.00-16.00 mm, 0.01mm step | <b>30-1516-01</b>                                    | -                                                    |
| 101         | 16.00-17.00 mm, 0.01mm step | <b>30-1617-01</b>                                    | -                                                    |
| 101         | 17.00-18.00 mm, 0.01mm step | <b>30-1718-01</b>                                    | -                                                    |
| 101         | 18.00-19.00 mm, 0.01mm step | <b>30-1819-01</b>                                    | -                                                    |
| 101         | 19.00-20.00 mm, 0.01mm step | <b>30-1920-01</b>                                    | -                                                    |

## Pin Gauges (Individual)

### Features

- Mirror polished surfaces provide superior characteristics
- Accuracy:  $\pm 0.001\text{mm}$
- Hardened ( $62 \pm 2$  HRC)
- 50mm and 70mm length are optional
- Inch individual pin gauges are available (50mm length only)
- Ceramic material pin gauges are available (50mm length only)
- Compliance with standard DIN 2269



### Material: Steel

| Size     | Length       |          | Size   | Length      |
|----------|--------------|----------|--------|-------------|
| Metric   | 50mm         | 70mm     | Inch   | 50mm        |
| 0.500mm  | 30-00500     | 37-00500 | 0.010" | 35-0010     |
| 0.501mm  | 30-00501     | 37-00501 | 0.011" | 35-0011     |
| 0.502mm  | 30-00502     | 37-00502 | 0.012" | 35-0012     |
| 0.503mm  | 30-00503     | 37-00503 | 0.013" | 35-0013     |
| ...      | 0.001mm step |          | ...    | 0.001" step |
| 19.997mm | 30-19997     | 37-19997 | 0.997" | 35-0997     |
| 19.998mm | 30-19998     | 37-19998 | 0.998" | 35-0998     |
| 19.999mm | 30-19999     | 37-19999 | 0.999" | 35-0999     |
| 20.000mm | 30-20000     | 37-20000 | 1.000" | 35-1000     |

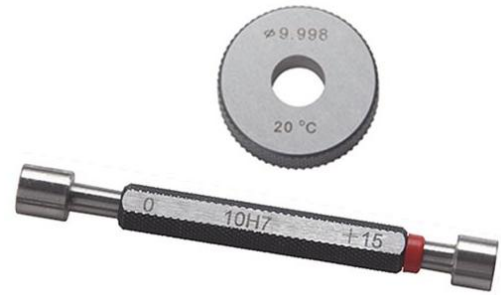
### Material: Ceramic

| Size    | Length      |
|---------|-------------|
| Metric  | 50mm        |
| 0.50mm  | 30-0050C    |
| 0.51mm  | 30-0051C    |
| 0.52mm  | 30-0052C    |
| 0.53mm  | 30-0053C    |
| ...     | 0.01mm step |
| 19.97mm | 30-1997C    |
| 19.98mm | 30-1998C    |
| 19.99mm | 30-1999C    |
| 20.00mm | 30-2000C    |

## Plain Plug and Ring Gauges

### Features

- Individual serial number on each gauge
- Hardness HRC 60±2
- Plug gauges compliance with standard DIN 7162/7164
- Ring gauges compliance with standard DIN 2250
- Customized dimension and tolerance are available



| Size<br>(Diameter) | Item Code<br>(Plug Gauge,<br>H7) | Item Code<br>(Ring Gauge) |
|--------------------|----------------------------------|---------------------------|
| 2mm                | 40-0020                          | 45-0020                   |
| 3mm                | 40-0030                          | 45-0030                   |
| 4mm                | 40-0040                          | 45-0040                   |
| 5mm                | 40-0050                          | 45-0050                   |
| 6mm                | 40-0060                          | 45-0060                   |
| 7mm                | 40-0070                          | 45-0070                   |
| 8mm                | 40-0080                          | 45-0080                   |
| 9mm                | 40-0090                          | 45-0090                   |
| 10mm               | 40-0100                          | 45-0100                   |
| 11mm               | 40-0110                          | 45-0110                   |
| 12mm               | 40-0120                          | 45-0120                   |
| 13mm               | 40-0130                          | 45-0130                   |
| 14mm               | 40-0140                          | 45-0140                   |
| 15mm               | 40-0150                          | 45-0150                   |
| 16mm               | 40-0160                          | 45-0160                   |
| 17mm               | 40-0170                          | 45-0170                   |
| 18mm               | 40-0180                          | 45-0180                   |
| 19mm               | 40-0190                          | 45-0190                   |
| 20mm               | 40-0200                          | 45-0200                   |
| 21mm               | 40-0210                          | 45-0210                   |
| 22mm               | 40-0220                          | 45-0220                   |
| 23mm               | 40-0230                          | 45-0230                   |
| 24mm               | 40-0240                          | 45-0240                   |
| 25mm               | 40-0250                          | 45-0250                   |
| 26mm               | 40-0260                          | 45-0260                   |
| 27mm               | 40-0270                          | 45-0270                   |
| 28mm               | 40-0280                          | 45-0280                   |

| Size<br>(Diameter) | Item Code<br>(Plug Gauge, H7) | Item Code<br>(Ring Gauge) |
|--------------------|-------------------------------|---------------------------|
| 29mm               | 40-0290                       | 45-0290                   |
| 30mm               | 40-0300                       | 45-0300                   |
| 32mm               | 40-0320                       | 45-0320                   |
| 34mm               | 40-0340                       | 45-0340                   |
| 35mm               | 40-0350                       | 45-0350                   |
| 36mm               | 40-0360                       | 45-0360                   |
| 37mm               | 40-0370                       | 45-0370                   |
| 38mm               | 40-0380                       | 45-0380                   |
| 40mm               | 40-0400                       | 45-0400                   |
| 42mm               | 40-0420                       | 45-0420                   |
| 44mm               | 40-0440                       | 45-0440                   |
| 45mm               | 40-0450                       | 45-0450                   |
| 46mm               | 40-0460                       | 45-0460                   |
| 50mm               | 40-0500                       | 45-0500                   |
| 60mm               | 40-0600                       | 45-0600                   |
| 70mm               | 40-0700                       | 45-0700                   |
| 80mm               | 40-0800                       | 45-0800                   |
| 90mm               | 40-0900                       | 45-0900                   |
| 100mm              | 40-1000                       | 45-1000                   |
| 125mm              | 40-1250                       | 45-1250                   |
| 150mm              | 40-1500                       | 45-1500                   |
| 175mm              | 40-1750                       | 45-1750                   |
| 200mm              | 40-2000                       | 45-2000                   |
| 225mm              | 40-2250                       | 45-2250                   |
| 250mm              | 40-2500                       | 45-2500                   |
| 270mm              | 40-2750                       | 45-2750                   |
| 300mm              | 40-3000                       | 45-3000                   |

## Plug Gage Set

| Size (Diameter)                          | Plug Gauge |
|------------------------------------------|------------|
| 7pcs set (3mm、4mm、5mm、6mm、8mm、10mm、12mm) | 40-0312T   |
| 28pcs set (3mm-30mm)                     | 40-0330T   |



40-3012T



40-0330T



50-3012T

## Metric Thread Plug and Ring Gauges

### Features

- Individual serial number on each gauge
- Hardness HRC 60±2
- Thread gauges for metric thread according to DIN 13
- Customized dimension and tolerance are available



### Metric Coarse Thread

| Size       | Plug Gauge<br>6H | Ring Gauge<br>(Go, 6g) | Ring Gauge<br>(No Go, 6g) |
|------------|------------------|------------------------|---------------------------|
| M2 x 0.4   | 50-0200          | 55-0200                | 65-0200                   |
| M3 x 0.5   | 50-0300          | 55-0300                | 65-0300                   |
| M4 x 0.7   | 50-0400          | 55-0400                | 65-0400                   |
| M5 x 0.8   | 50-0500          | 55-0500                | 65-0500                   |
| M6 x 1.0   | 50-0600          | 55-0600                | 65-0600                   |
| M8 x 1.25  | 50-0800          | 55-0800                | 65-0800                   |
| M10 x 1.5  | 50-1000          | 55-1000                | 65-1000                   |
| M12 x 1.75 | 50-1200          | 55-1200                | 65-1200                   |
| M14 x 2.0  | 50-1400          | 55-1400                | 65-1400                   |
| M16 x 2.0  | 50-1600          | 55-1600                | 65-1600                   |
| M18 x 2.5  | 50-1800          | 55-1800                | 65-1800                   |
| M20 x 2.5  | 50-2000          | 55-2000                | 65-2000                   |
| M22 x 2.5  | 50-2200          | 55-2200                | 65-2200                   |
| M24 x 3.0  | 50-2400          | 55-2400                | 65-2400                   |
| M27 x 3.0  | 50-2700          | 55-2700                | 65-2700                   |
| M30 x 3.5  | 50-3000          | 55-3000                | 65-3000                   |
| M33 x 3.5  | 50-3300          | 55-3300                | 65-3300                   |
| M36 x 4.0  | 50-3600          | 55-3600                | 65-3600                   |
| M42 x 4.5  | 50-4200          | 55-4200                | 65-4200                   |
| M45 x 4.5  | 50-4500          | 55-4500                | 65-4500                   |
| M48 x 5.0  | 50-4800          | 55-4800                | 65-4800                   |
| M52 x 5.0  | 50-5200          | 55-5200                | 65-5200                   |
| M56 x 5.5  | 50-5600          | 55-5600                | 65-5600                   |
| M60 x 5.5  | 50-6000          | 55-6000                | 65-6000                   |

### Plug Gage Set

| Size                              | Plug Gauge |
|-----------------------------------|------------|
| 7pcs set (M3、M4、M5、M6、M8、M10、M12) | 50-0312T   |

## Metric Fine Thread

| Size       | Plug Gauge<br>6H | Ring Gauge<br>(Go, 6g) | Ring Gauge<br>(No Go, 6g) |
|------------|------------------|------------------------|---------------------------|
| M2 x 0.35  | 50-0201          | 55-0201                | 65-0201                   |
| M3 x 0.35  | 50-0301          | 55-0301                | 65-0301                   |
| M4 x 0.35  | 50-0401          | 55-0401                | 65-0401                   |
| M5 x 0.35  | 50-0501          | 55-0501                | 65-0501                   |
| M6 x 0.35  | 50-0601          | 55-0601                | 65-0601                   |
| M5 x 0.5   | 50-0502          | 55-0502                | 65-0502                   |
| M6 x 0.5   | 50-0602          | 55-0602                | 65-0602                   |
| M8 x 0.5   | 50-0802          | 55-0802                | 65-0802                   |
| M10 x 0.5  | 50-1002          | 55-1002                | 65-1002                   |
| M12 x 0.5  | 50-1202          | 55-1202                | 65-1202                   |
| M6 x 0.75  | 50-0603          | 55-0603                | 65-0603                   |
| M8 x 0.75  | 50-0803          | 55-0803                | 65-0803                   |
| M10 x 0.75 | 50-1003          | 55-1003                | 65-1003                   |
| M12 x 0.75 | 50-1203          | 55-1203                | 65-1203                   |
| M8 x 1.0   | 50-0804          | 55-0804                | 65-0804                   |
| M10 x 1.0  | 50-1004          | 55-1004                | 65-1004                   |
| M12 x 1.0  | 50-1204          | 55-1204                | 65-1204                   |
| M14 x 1.0  | 50-1404          | 55-1404                | 65-1404                   |
| M16 x 1.0  | 50-1604          | 55-1604                | 65-1604                   |
| M18 x 1.0  | 50-1804          | 55-1804                | 65-1804                   |
| M20 x 1.0  | 50-2004          | 55-2004                | 65-2004                   |
| M21 x 1.0  | 50-2104          | 55-2104                | 65-2104                   |
| M22 x 1.0  | 50-2204          | 55-2204                | 65-2204                   |
| M24 x 1.0  | 50-2404          | 55-2404                | 65-2404                   |
| M25 x 1.0  | 50-2504          | 55-2504                | 65-2504                   |
| M26 x 1.0  | 50-2604          | 55-2604                | 65-2604                   |
| M28 x 1.0  | 50-2804          | 55-2804                | 65-2804                   |
| M30 x 1.0  | 50-3004          | 55-3004                | 65-3004                   |
| M32 x 1.0  | 50-3204          | 55-3204                | 65-3204                   |
| M33 x 1.0  | 50-3304          | 55-3304                | 65-3304                   |
| M34 x 1.0  | 50-3404          | 55-3404                | 65-3404                   |
| M35 x 1.0  | 50-3504          | 55-3504                | 65-3504                   |
| M36 x 1.0  | 50-3604          | 55-3604                | 65-3604                   |
| M38 x 1.0  | 50-3804          | 55-3804                | 65-3804                   |
| M40 x 1.0  | 50-4004          | 55-4004                | 65-4004                   |
| M45 x 1.0  | 50-4504          | 55-4504                | 65-4504                   |

|            |         |         |         |
|------------|---------|---------|---------|
| M50 x 1.0  | 50-5004 | 55-5004 | 65-5004 |
| M55 x 1.0  | 50-5504 | 55-5504 | 65-5504 |
| M56 x 1.0  | 50-5604 | 55-5604 | 65-5604 |
| M58 x 1.0  | 50-5804 | 55-5804 | 65-5804 |
| M60 x 1.0  | 50-6004 | 55-6004 | 65-6004 |
| M70 x 1.0  | 50-7004 | 55-7004 | 65-7004 |
| M80 x 1.0  | 50-8004 | 55-8004 | 65-8004 |
| M10 x 1.25 | 50-1005 | 55-1005 | 65-1005 |
| M12 x 1.25 | 50-1205 | 55-1205 | 65-1205 |
| M10 x 1.5  | 50-1006 | 55-1006 | 65-1006 |
| M12 x 1.5  | 50-1206 | 55-1206 | 65-1206 |
| M16 x 1.5  | 50-1606 | 55-1606 | 65-1606 |
| M20 x 1.5  | 50-2006 | 55-2006 | 65-2006 |
| M30 x 1.5  | 50-3006 | 55-3006 | 65-3006 |
| M40 x 1.5  | 50-4006 | 55-4006 | 65-4006 |
| M50 x 1.5  | 50-5006 | 55-5006 | 65-5006 |
| M56 x 1.5  | 50-5606 | 55-5606 | 65-5606 |
| M60 x 1.5  | 50-6006 | 55-6006 | 65-6006 |
| M70 x 1.5  | 50-7006 | 55-7006 | 65-7006 |
| M80 x 1.5  | 50-8006 | 55-8006 | 65-8006 |
| M18 x 2.0  | 50-1807 | 55-1807 | 65-1807 |
| M20 x 2.0  | 50-2007 | 55-2007 | 65-2007 |
| M22 x 2.0  | 50-2207 | 55-2207 | 65-2207 |
| M30 x 2.0  | 50-3007 | 55-3007 | 65-3007 |
| M40 x 2.0  | 50-4007 | 55-4007 | 65-4007 |
| M50 x 2.0  | 50-5007 | 55-5007 | 65-5007 |
| M56 x 2.0  | 50-5607 | 55-5607 | 65-5607 |
| M60 x 2.0  | 50-6007 | 55-6007 | 65-6007 |
| M70 x 2.0  | 50-7007 | 55-7007 | 65-7007 |
| M80 x 2.0  | 50-8007 | 55-8007 | 65-8007 |
| M90 x 2.0  | 50-9007 | 55-9007 | 65-9007 |
| M100 x 2.0 | 50-0007 | 55-0007 | 65-0007 |
| M30 x 3.0  | 50-3008 | 55-3008 | 65-3008 |
| M36 x 3.0  | 50-3608 | 55-3608 | 65-3608 |
| M40 x 3.0  | 50-4008 | 55-4008 | 65-4008 |
| M50 x 3.0  | 50-5008 | 55-5008 | 65-5008 |
| ...        | ...     | ...     | ...     |
| M100 x 3.0 | 50-0008 | 55-0008 | 65-0008 |

## Inch Thread Plug and Ring Gauges

### Features

- Individual serial number on each gauge
- Hardness HRC 60±2
- American unified inch thread according to ANSI B 1.1
- Customized dimension and tolerance are available



### ANSI UNC Thread

| Size     | Plug Gauge<br>(Class 2B) | Ring Gauge<br>(Go, 2A) | Ring Gauge<br>(No Go, 2A) |
|----------|--------------------------|------------------------|---------------------------|
| 3-48     | 51-0030048               | 56-0030048             | 66-0030048                |
| 4-40     | 51-0040040               | 56-0040040             | 66-0040040                |
| 5-40     | 51-0050040               | 56-0050040             | 66-0050040                |
| 6-32     | 51-0060032               | 56-0060032             | 66-0060032                |
| 8-32     | 51-0080032               | 56-0080032             | 66-0080032                |
| 10-24    | 51-0100024               | 56-0100024             | 66-0100024                |
| 12-24    | 51-0120024               | 56-0120024             | 66-0120024                |
| 1/4"-20  | 51-0010420               | 56-0010420             | 66-0010420                |
| 5/16"-18 | 51-0051618               | 56-0051618             | 66-0051618                |
| 3/8"-16  | 51-0030816               | 56-0030816             | 66-0030816                |
| 7/16"-14 | 51-0071614               | 56-0071614             | 66-0071614                |
| 1/2"-13  | 51-0010213               | 56-0010213             | 66-0010213                |
| 9/16"-12 | 51-0091612               | 56-0091612             | 66-0091612                |
| 5/8"-11  | 51-0050811               | 56-0050811             | 66-0050811                |
| 3/4"-10  | 51-0030410               | 56-0030410             | 66-0030410                |
| 7/8"-9   | 51-0070809               | 56-0070809             | 66-0070809                |
| 1"-8     | 51-1000008               | 56-1000008             | 66-1000008                |

## ANSI UNF/UN Thread

| Size        | Plug Gauge<br>(Class 2B) | Ring Gauge<br>(Go, 2A) | Ring Gauge<br>(No Go, 2A) |
|-------------|--------------------------|------------------------|---------------------------|
| 3-56        | 51-0030056               | 56-0030056             | 66-0030056                |
| 4-48        | 51-0040048               | 56-0040048             | 66-0040048                |
| 5-44        | 51-0050044               | 56-0050044             | 66-0050044                |
| 6-40        | 51-0060040               | 56-0060040             | 66-0060040                |
| 8-36        | 51-0080036               | 56-0080036             | 66-0080036                |
| 10-32       | 51-0100032               | 56-0100032             | 66-0100032                |
| 12-28       | 51-0120028               | 56-0120028             | 66-0120028                |
| 1/4"-28     | 51-00010428              | 56-0010428             | 66-0010428                |
| 5/16"-24    | 51-0051624               | 56-0051624             | 66-0051624                |
| 3/8"-24     | 51-0030824               | 56-0030824             | 66-0030824                |
| 7/16"-20    | 51-0071620               | 56-0071620             | 66-0071620                |
| 1/2"-20     | 51-0010220               | 56-0010220             | 66-0010220                |
| 9/16"-18    | 51-0091618               | 56-0091618             | 66-0091618                |
| 5/8"-18     | 51-0050818               | 56-0050818             | 66-0050818                |
| 3/4"-16     | 51-0030416               | 56-0030416             | 66-0030416                |
| 7/8"-14     | 51-0070814               | 56-0070814             | 66-0070814                |
| 1"-12       | 51-1000012               | 56-1000012             | 66-1000012                |
| 1-1/16"-8   | 51-1011608               | 56-1011608             | 66-1011608                |
| 1-1/16"-12  | 51-1011612               | 56-1011612             | 66-1011612                |
| 1-1/16"-16  | 51-1011616               | 56-1011616             | 66-1011616                |
| 1-1/8"-8    | 51-1010808               | 56-1010808             | 66-1010808                |
| 1-1/8"-12   | 51-1010812               | 56-1010812             | 66-1010812                |
| 1-1/8"-16   | 51-1010816               | 56-1010816             | 66-1010816                |
| 1-3/16"-8   | 51-1031608               | 56-1031608             | 66-1031608                |
| 1-3/16"-12  | 51-1031612               | 56-1031612             | 66-1031612                |
| 1-3/16"-16  | 51-1031616               | 56-1031616             | 66-1031616                |
| ...         | ...                      | ...                    | ...                       |
| 1-15/16"-8  | 51-1151608               | 56-1151608             | 66-1151608                |
| 1-15/16"-12 | 51-1151612               | 56-1151612             | 66-1151612                |
| 1-15/16"-16 | 51-1151616               | 56-1151616             | 66-1151616                |
| 2"-8        | 51-2000008               | 56-2000008             | 66-2000008                |
| 2"-12       | 51-2000012               | 56-2000012             | 66-2000012                |
| 2"-16       | 51-2000016               | 56-2000016             | 66-2000016                |

## Whitworth Thread

According to DIN ISO 228

| Size         | Plug Gauge<br>(Class 2B) | Ring Gauge<br>(Go, 2A) | Ring Gauge<br>(No Go, 2A) |
|--------------|--------------------------|------------------------|---------------------------|
| G1/8" - 28   | 52-00108                 | 57-00108               | 67-00108                  |
| G1/4" - 19   | 52-00104                 | 57-00104               | 67-00104                  |
| G3/8" - 19   | 52-00308                 | 57-00308               | 67-00308                  |
| G1/2" - 14   | 52-00102                 | 57-00102               | 67-00102                  |
| G5/8" - 14   | 52-00508                 | 57-00508               | 67-00508                  |
| G3/4" - 14   | 52-00304                 | 57-00304               | 67-00304                  |
| G7/8" - 14   | 52-00708                 | 57-00708               | 67-00708                  |
| G1" - 11     | 52-10000                 | 57-10000               | 67-10000                  |
| G1-1/4" - 11 | 52-10104                 | 57-10104               | 67-10104                  |
| G1-1/2" - 11 | 52-10102                 | 57-10102               | 67-10102                  |
| G1-3/4" - 11 | 52-10304                 | 57-10304               | 67-10304                  |
| G2" - 11     | 52-20000                 | 57-20000               | 67-20000                  |
| G2-1/4" - 11 | 52-20104                 | 57-20104               | 67-20104                  |
| G2-1/2" - 11 | 52-20102                 | 57-20102               | 67-20102                  |
| G2-3/4" - 11 | 52-20304                 | 57-20304               | 67-20304                  |
| G3" - 11     | 52-30000                 | 57-30000               | 67-30000                  |

## NPT Thread

According to ANSI/ASME B1.20.1

| Size        | Plug Gauge | Ring Gauge |
|-------------|------------|------------|
| 1/8"-27     | 53-00108   | 68-00108   |
| 1/4"-18     | 53-00104   | 68-00104   |
| 3/8"-18     | 53-00308   | 68-00308   |
| 1/2"-14     | 53-00102   | 68-00102   |
| 3/4"-14     | 53-00304   | 68-00304   |
| 1"-11.5     | 53-10000   | 68-10000   |
| 1-1/4"-11.5 | 53-10104   | 68-10104   |
| 1-1/2"-11.5 | 53-10102   | 68-10102   |
| 2"-11.5     | 53-20000   | 68-20000   |
| 2-1/2"-8    | 53-20102   | 68-20102   |
| 3"-8        | 53-30000   | 68-30000   |



## Economical Magnetic Indicator Stand

### Features:

- Stable column with longitudinally cross arm
- Permanent on/off magnetic base
- With 8mm clamping hole (optional 3/8")
- Most economical and widely used series



51121-080

52121-080

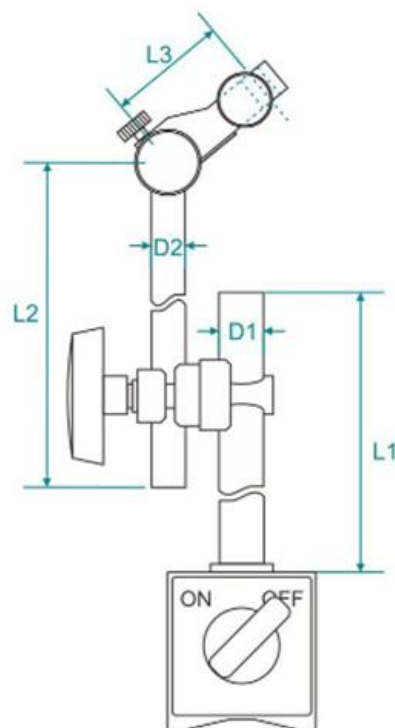
| Holding Power | Base      | Main Pole | Sub Pole | Dia. of Clamp Hole | Code No.  |
|---------------|-----------|-----------|----------|--------------------|-----------|
| 80KG          | 60X50X55  | Ø12X176   | Ø10X165  | 6.0/8.0            | 51121-080 |
| 100KG         | 73X50X55  | Ø12X176   | Ø10X165  | 6.0/8.0            | 51121-100 |
| 130KG         | 117X50X55 | Ø20X355   | Ø14X200  | 6.0/8.0            | 51201-130 |
| 80KG          | 60X50X55  | Ø12X176   | Ø10X150  | 6.0/8.0            | 52121-080 |
| 100KG         | 73X50X55  | Ø12X176   | Ø10X165  | 6.0/8.0            | 52121-100 |
| 100KG         | 73X50X55  | Ø20X178   | Ø14X165  | 6.0/8.0            | 52201-100 |
| 130KG         | 117X50X55 | Ø20X355   | Ø14X210  | 6.0/8.0            | 52201-130 |



## High Precision Forced Locking Type Magnetic Indicator Stand

### Features:

- New type fine adjustment on the top, higher accuracy
- Strong arm lock, more stable
- Main and sub poles are made of stainless steel
- Permanent on/off magnetic base
- With 8mm clamping hole (optional 3/8")

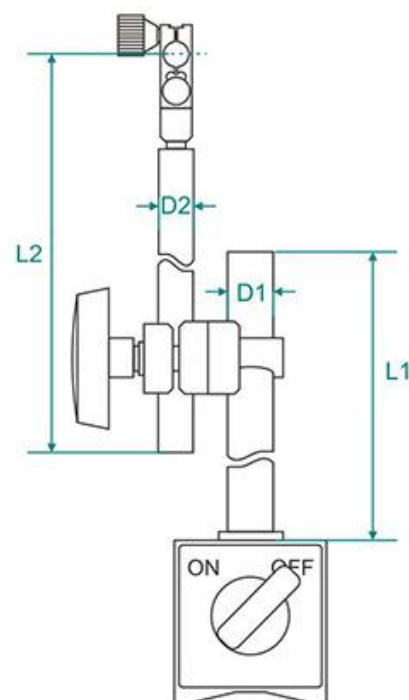


| Holding Power | Base     | Main Pole (D <sub>1</sub> ) | Sub Pole (D <sub>2</sub> ) | L <sub>3</sub> | Dia. of Clamp Hole | Code No.         |
|---------------|----------|-----------------------------|----------------------------|----------------|--------------------|------------------|
| 80KG          | 60X50X55 | Ø12X175                     | Ø10X153                    | 45             | 6.0/8.0/Dovetail   | <b>52122-080</b> |
| 80KG          | 60X50X55 | Ø14X200                     | Ø12X160                    | 45             |                    | <b>52142-080</b> |
| 100KG         | 73X50X55 | Ø16X250                     | Ø14X173                    | 45             |                    | <b>52162-100</b> |

## Forced Locking Type Magnetic Indicator Stand

### Features:

- Strong arm lock, more stable
- Permanent on/off magnetic base
- With 8mm clamping hole (optional 3/8")



| Holding Power | Base      | Main Pole (D1XL1) | Sub Pole (D2XL2) | Dial of Clamp Hole | Code No.  |
|---------------|-----------|-------------------|------------------|--------------------|-----------|
| 80KG          | 60X50X55  | Ø12X180           | Ø10X205          | 6.0/8.0/Dovetail   | 52123-080 |
| 80KG          | 60X50X55  | Ø14X205           | Ø12X210          |                    | 52143-080 |
| 100KG         | 73X50X55  | Ø16X250           | Ø16X245          |                    | 52163-100 |
| 130KG         | 117X50X55 | Ø18X350           | Ø16X245          |                    | 52183-130 |

## Mechanical Universal Arm Magnetic Indicator Stand

### Features:

- New type fine adjustment on the top, higher accuracy (except 51001-030)
- High precision arm with central locking mechanism
- Permanent on/off magnetic base
- With 8mm clamping hole (optional 3/8")

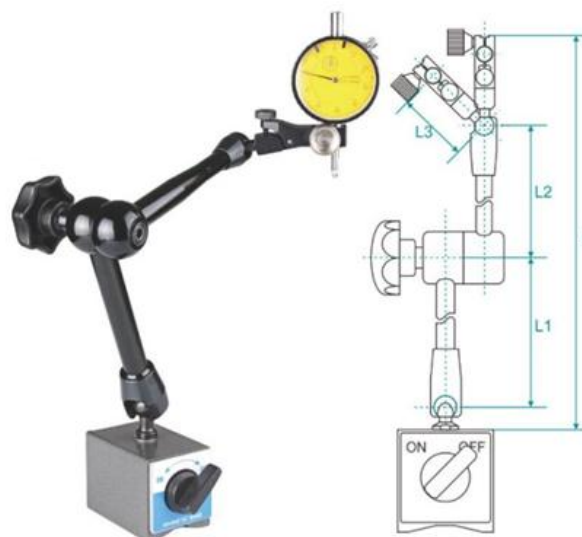


| Holding Power | Base      | Arm Length | L1  | L2  | L3 | Dial of Clamp Hole | Code No.         |
|---------------|-----------|------------|-----|-----|----|--------------------|------------------|
| 30KG          | 35X30X35  | 158        | 56  | 51  | 17 | 6.0/8.0/Dovetail   | <b>51001-030</b> |
| 30KG          | 35X30X35  | 205        | 56  | 51  | 73 |                    | <b>52001-030</b> |
| 80KG          | 60X50X55  | 310        | 110 | 101 | 73 |                    | <b>52001-080</b> |
| 100KG         | 73X50X55  | 385        | 147 | 130 | 76 |                    | <b>52001-100</b> |
| 130KG         | 117X50X55 | 635        | 285 | 225 | 76 |                    | <b>52001-130</b> |

## Strong Mechanical Arm Magnetic Indicator Stand

### Features:

- Force locking mechanical arm, which makes the measure very stable
- With 8mm clamping hole (optional 3/8")



| Holding Power | Base     | L   | L1  | L2  | L3 | Dia. of Clamp Hole | Code No.         |
|---------------|----------|-----|-----|-----|----|--------------------|------------------|
| 100KG         | 73X50X55 | 375 | 140 | 136 | 67 | 6.0/8.0/Dovetail   | <b>52002-100</b> |

## Strong Mechanical Arm Indicator Stand

### Features

- New type locking mechanism, super strong arm locking.
- All wear parts use hardened high class steel, hardness reach HRC 58°+
- Main parts are generated on CNC machines.
- With 6mm/8mm clamping hole (optional 3/8")

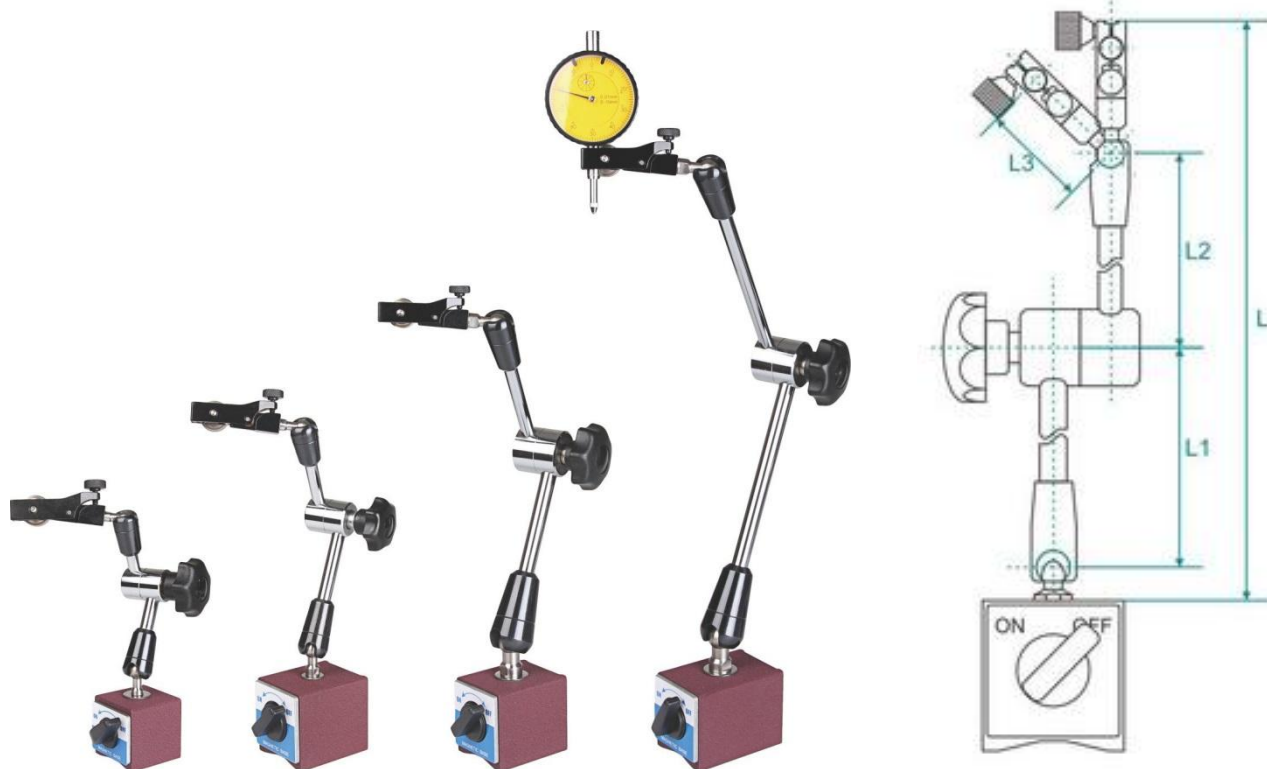


| Holding Power | Base     | L   | L1  | L2  | L3 | Dia. of Clamp Hole | Code No.         |
|---------------|----------|-----|-----|-----|----|--------------------|------------------|
| 50KG          | 40X40X40 | 220 | 62  | 52  | 79 | 6.0/8.0/Dovetail   | <b>52007-050</b> |
| 80KG          | 60X50X55 | 290 | 100 | 82  | 81 | 6.0/8.0/Dovetail   | <b>52007-080</b> |
| 100KG         | 73X50X55 | 355 | 145 | 95  | 81 | 6.0/8.0/Dovetail   | <b>52007-100</b> |
| 100KG         | 73X50X55 | 415 | 175 | 125 | 81 | 6.0/8.0/Dovetail   | <b>52007-101</b> |

## Strong Mechanical Universal Arm Magnetic Indicator Stand

### Features:

- Strong central locking mechanism
- New type fine adjustment on the top
- Permanent on/off magnetic base
- With 8mm clamping hole (optional 3/8")



| Holding Power | Base     | L   | L1  | L2  | L3 | Dial of Clamp Hole | Code No.  |
|---------------|----------|-----|-----|-----|----|--------------------|-----------|
| 50KG          | 40X40X40 | 192 | 59  | 47  | 64 | 6.0/8.0/Dovetail   | 52004-050 |
| 80KG          | 60X50X55 | 262 | 93  | 73  | 68 |                    | 52004-080 |
| 80KG          | 60X50X55 | 354 | 140 | 103 | 70 |                    | 52014-080 |
| 100KG         | 73X50X55 | 472 | 198 | 174 | 70 |                    | 52004-100 |

## Mechanical Universal Arm Magnetic Indicator Stand

### Features:

- One of the most widely used mechanical magnetic stands
- All three joints can be locked with the single hand knob
- Color of arms and can be customized

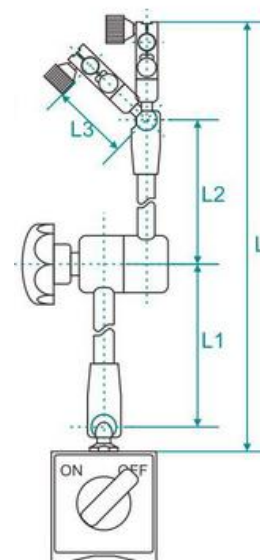


| Holding Power | Base     | L   | L1  | L2  | L3 | Dial of Clamp Hole | Code No.         |
|---------------|----------|-----|-----|-----|----|--------------------|------------------|
| 80KG          | 60X50X55 | 345 | 132 | 120 | 51 | 6.0/8.0/Dovetail   | <b>52005-080</b> |

## Strong Mechanical Arm Magnetic Indicator Stand

### Features:

- Forced locking mechanical arm.

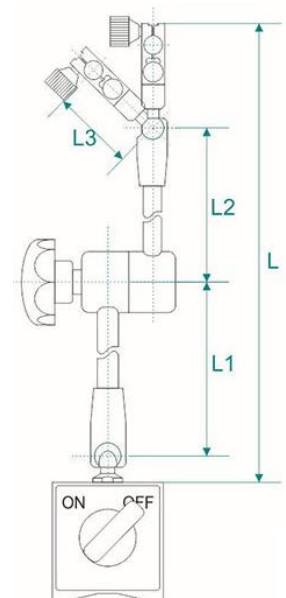


| Holding Power | Base     | L   | L1  | L2  | L3 | Dial of Clamp Hole | Code No.         |
|---------------|----------|-----|-----|-----|----|--------------------|------------------|
| 100KG         | 73X50X55 | 377 | 142 | 130 | 73 | 6.0/8.0/Dovetail   | <b>52006-100</b> |

## Mini Type Mechanical Arm Magnetic Indicator Stand

### Features:

- Small mechanical arm with central locking mechanism

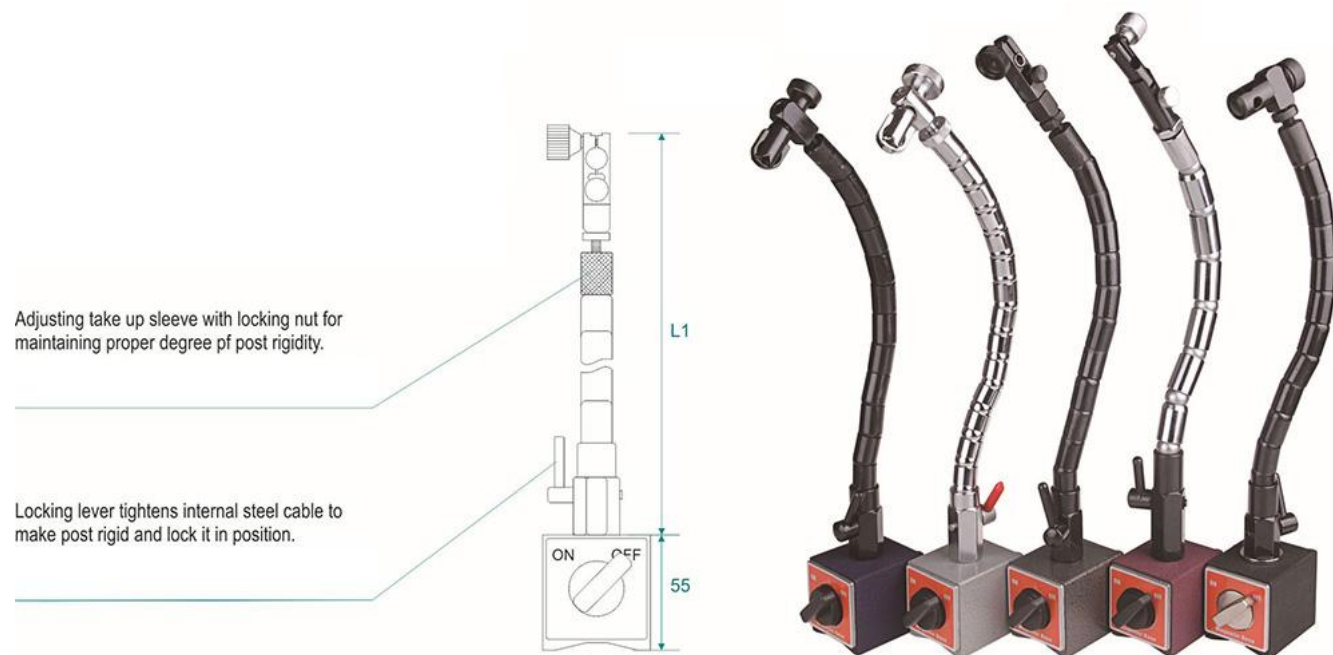


| Holding Power | Base     | L   | L1 | L2 | L3 | Dial of Clamp Hole | Code No.         |
|---------------|----------|-----|----|----|----|--------------------|------------------|
| 30KG          | 35X30X35 | 148 | 45 | 45 | 39 | 6.0/Dovetail       | <b>54001-030</b> |
| 50KG          | 40X40X40 | 180 | 56 | 56 | 56 | 8.0/Dovetail       | <b>54001-050</b> |
| 30KG          | Φ40X30   | 255 | 87 | 82 | 50 | 8.0/Dovetail       | <b>54002-030</b> |

## Flexible Arm Magnetic Indicator Stand

### Features:

- Flexible arm, it can be adjusted to any position.



| Holding Power | Base     | L3  | Dial of Clamp Hole | Code No.  |
|---------------|----------|-----|--------------------|-----------|
| 80KG          | 60x50x55 | 340 | 3.0-13.0           | 51341-080 |
| 80KG          | 60x50x55 | 340 | 3.0-13.0           | 51342-080 |
| 80KG          | 60x50x55 | 360 | 6.0/8.0/Dovetail   | 51361-080 |
| 80KG          | 60x50x55 | 370 | 8.0/Dovetail       | 51371-080 |
| 80KG          | 60x50x55 | 330 | 6.0/8.0            | 51330-080 |

## Universal Mechanical Arm

### Feature:

- All three joints can be locked with single hand knob
- Ball joints enable quick and easy positioning
- Can be applied in many fields



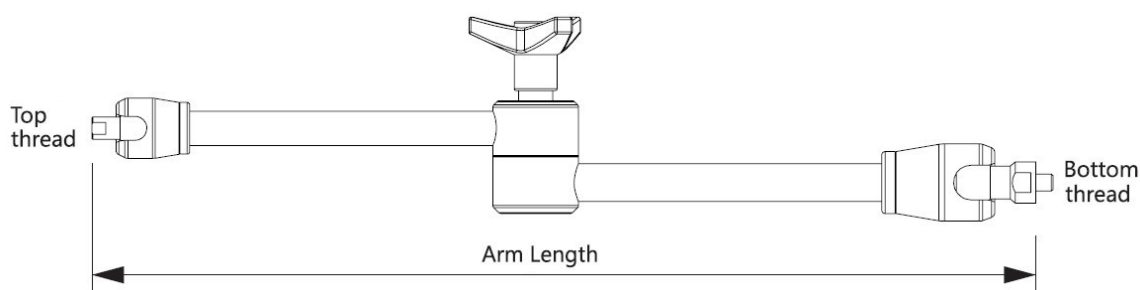
52007 series



52001 series



52004 series

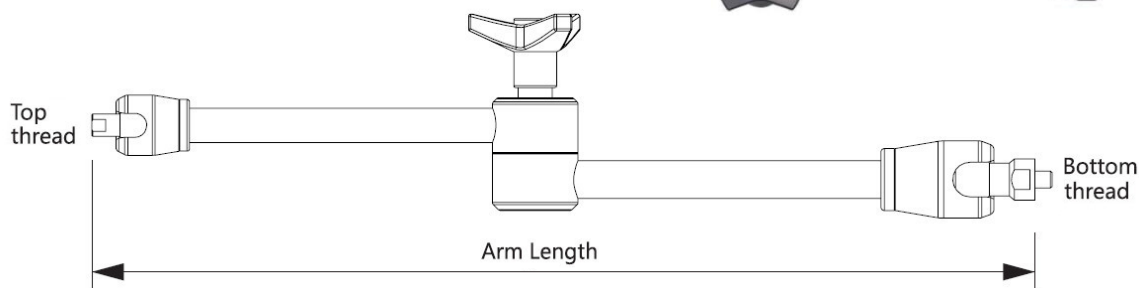


| Arm Length | Top thread                    | Bottom thread<br>(External thread) | Code No.        |
|------------|-------------------------------|------------------------------------|-----------------|
| 150        | M6 x 1.0<br>(External thread) | M6 x 1.0                           | <b>52007-A1</b> |
| 225        |                               | M8 x 1.25                          | <b>52007-A2</b> |
| 285        |                               |                                    | <b>52007-A3</b> |
| 345        |                               |                                    | <b>52007-A4</b> |
| 140        | M6 x 1.0<br>(Internal thread) | M5 x 0.8                           | <b>52001-A1</b> |
| 245        |                               | M8 x 1.25                          | <b>52001-A2</b> |
| 320        |                               |                                    | <b>52001-A3</b> |
| 570        |                               | M10 x 1.25                         | <b>52001-A4</b> |
| 127        | M6 x 1.0<br>(External thread) | M6 x 1.0                           | <b>52004-A1</b> |
| 197        |                               | M8 x 1.25                          | <b>52004-A2</b> |
| 289        |                               |                                    | <b>52004-A3</b> |
| 407        |                               |                                    | <b>52004-A4</b> |

## Stainless Steel Universal Mechanical Arm

### Feature:

- All three joints can be locked with single hand knob
- Ball joints enable quick and easy positioning
- Made of stainless steel
- Mainly used in medical field
- 500AH series are heavy duty type;  
500AL series are light duty type;

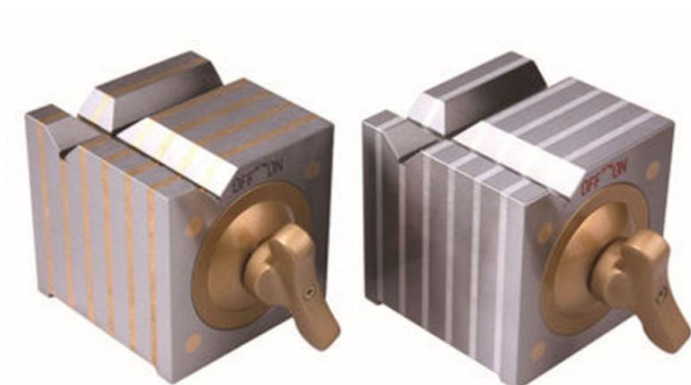


| Arm Length | Top thread                    | Bottom thread                   | Code No.         |
|------------|-------------------------------|---------------------------------|------------------|
| 550        | M6 x 1.0<br>(Internal thread) | M10 x 1.25<br>(External thread) | <b>500AH-550</b> |
| 650        |                               |                                 | <b>500AH-650</b> |
| 750        |                               |                                 | <b>500AH-750</b> |
| 750        | Customization                 | Customization                   | <b>500AM-750</b> |
| 450        | Customization                 | Customization                   | <b>500AL-450</b> |
| 600        |                               |                                 | <b>500AL-600</b> |

## Magnetic Square Block

### Features:

- Used as a holder for precision work in measuring, marking and other similar operation.
- Measuring available on the upper, side faces, V faces.



**50102-025**  
**50152-050**

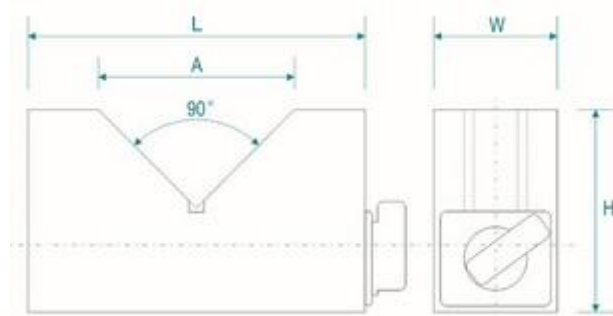
**50101-025**  
**50151-050**

| Holding Power |         | Dimensions  | Main Material  | Code No.         |
|---------------|---------|-------------|----------------|------------------|
| V-Groove      | Surface |             |                |                  |
| 25KG          | 50KG    | 100x100x100 | Steel/Aluminum | <b>50101-025</b> |
| 25KG          | 50KG    | 100x100x100 | Steel/Copper   | <b>50102-025</b> |
| 50KG          | 140KG   | 150x150x150 | Steel/Aluminum | <b>50151-050</b> |
| 50KG          | 140KG   | 150x150x150 | Steel/Copper   | <b>50152-050</b> |

## Magnetic V-block

### Features:

- Used for grinding, light Milling, Drilling & Inspection of Round & Square jobs
- Supplied in matched pair



50001--015



50001--020



50011--015



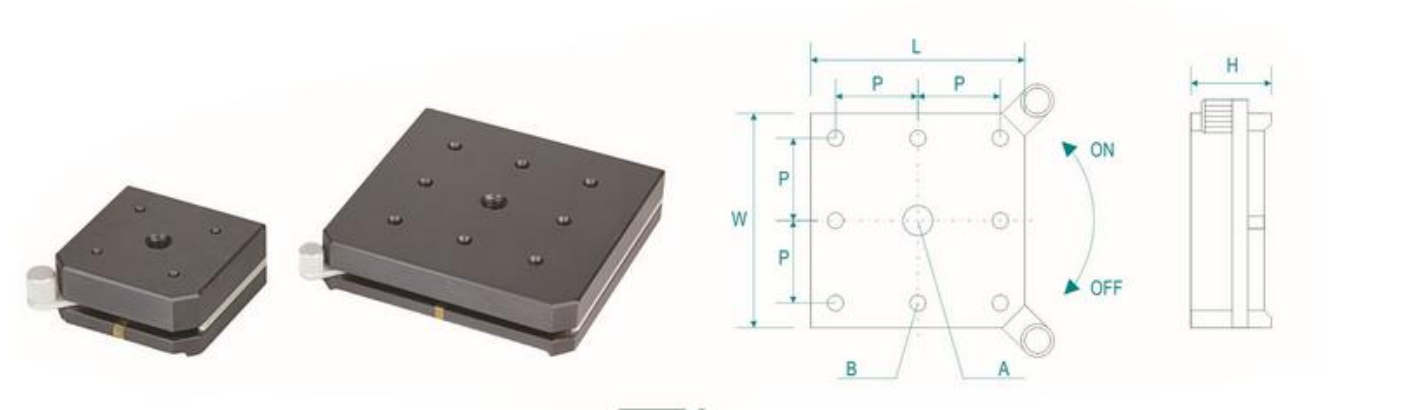
50001--023

| Holding Power | L   | W  | H   | A   | Applicable Dia. | Code No.  |
|---------------|-----|----|-----|-----|-----------------|-----------|
| 15KG          | 70  | 40 | 50  | 34  | Φ50             | 50001-015 |
| 15KG          | 70  | 40 | 50  | 34  | Φ50             | 50011-015 |
| 20KG          | 100 | 50 | 80  | 60  | Φ80             | 50001-020 |
| 23KG          | 150 | 50 | 100 | 100 | Φ100            | 50001-023 |

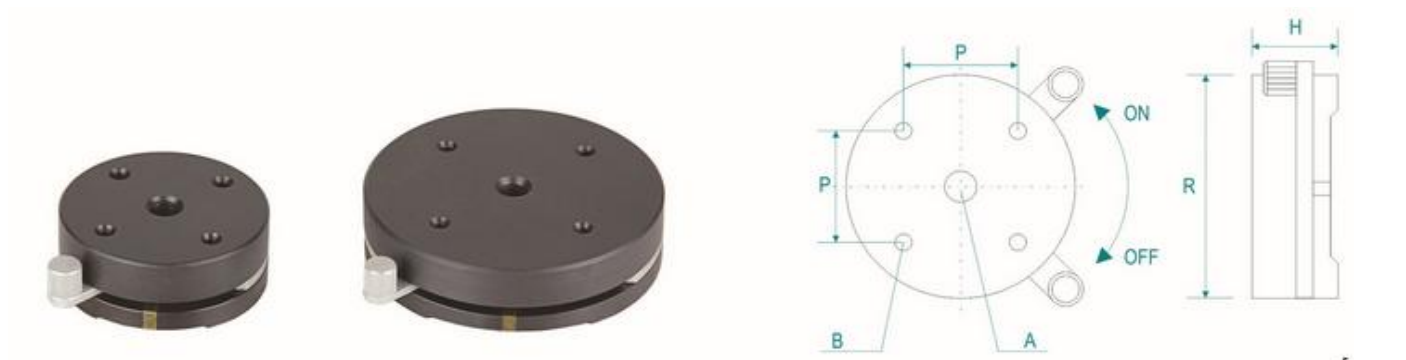
## Thin Type Magnetic Holder

### Features:

- Thin and powerful magnetic force



| Holding Power | Dimensions |     |    | Thread |      | P  | Code No.  |
|---------------|------------|-----|----|--------|------|----|-----------|
|               | W          | L   | H  | A      | B    |    |           |
| 6.5KG         | 45         | 45  | 20 | M8     | 4-M4 | 25 | 50004-007 |
| 20KG          | 65         | 65  | 20 | M8     | 8-M4 | 25 | 50004-020 |
| 25KG          | 90         | 90  | 20 | M8     | 8-M4 | 25 | 50004-025 |
| 80KG          | 125        | 125 | 30 | M16    | 8-M6 | 50 | 50004-080 |



| Holding Power | Dimensions |    | Thread |      | P  | Code No.  |
|---------------|------------|----|--------|------|----|-----------|
|               | R          | H  | A      | B    |    |           |
| 6KG           | 50         | 20 | M8     | 4-M4 | 25 | 50005-006 |
| 20KG          | 75         | 20 | M8     | 4-M4 | 35 | 50005-020 |

## Precision Indicator Stand

### Features:

- With high quality hardened metal base or natural granite base
- With 8mm clamping hole ( optional: 3/8")



| Pole Dimensions                           | Base Dimensions | Code No.         |
|-------------------------------------------|-----------------|------------------|
| Φ20X200                                   | 150x100x40      | <b>57201-150</b> |
| Φ18X170                                   | 150x100x40      | <b>57181-150</b> |
| Φ20X170                                   | Φ50             | <b>57202-050</b> |
| Φ25X180                                   | 80x80           | <b>57251-080</b> |
| Main Pole: Φ27.5X260<br>Sub Pole: Φ20X150 | 115x97          | <b>57281-115</b> |
| Main Pole: Φ14X200<br>Sub Pole: Φ12X165   | 150x100x40      | <b>57141-150</b> |
| Φ30X300                                   | 150x150x50      | <b>57301-150</b> |
|                                           | 230x150x50      | <b>57301-250</b> |
|                                           | 300x230x90      | <b>57301-300</b> |
| Φ30X300                                   | 150x150x50      | <b>57302-150</b> |
|                                           | 230x150x50      | <b>57302-230</b> |
|                                           | 300x230x90      | <b>57302-300</b> |

## Precision Level

### Features:

- Measuring surface is precision ground
- Frame made of special cast
- Easy adjustment
- Packed with aluminum box



| Sensitivity | Size     | Code No.         |
|-------------|----------|------------------|
| 0.02mm/m    | 100x30mm | <b>60100-002</b> |
|             | 150x47mm | <b>60150-002</b> |
|             | 200x47mm | <b>60200-002</b> |
|             | 300x48mm | <b>60300-002</b> |
| 0.05mm/m    | 150x47mm | <b>60150-005</b> |
|             | 200x47mm | <b>60200-005</b> |
|             | 300x48mm | <b>60300-005</b> |
| 0.10mm/m    | 150x47mm | <b>60150-010</b> |
|             | 200x47mm | <b>60200-010</b> |
|             | 300x48mm | <b>60300-010</b> |

## Digital Protractor

IP65

### Features:

- With absolute level sensor, can instantly available, no need to calibrate by yourself
- Display always reads upright, no matter which way it is turned
- With backlight, easy to read
- Setup of precision machines
- Low battery indicator



### Specification:

- Measuring Range: 4×90°
- Accuracy: 0° and 90°: 0.1°; the rest: 0.2°
- Working Temperature: 0°C ~ 50°C
- Working Humidity: ≤ 85%RH
- Battery: 2×1.5V Alkaline Battery
- IP Grade: IP65

| Range   | Resolution | Accuracy | L x H x W (mm) | Magnet | Code No.  |
|---------|------------|----------|----------------|--------|-----------|
| 4 x 90° | 0.05°      | 0.2°     | 162 x 60 x 33  | No     | 61002-030 |
|         |            |          |                | Yes    | 61002-031 |

## Digital Protractor

### Features:

- LCD display hold function
- Absolution and relative level measuring
- Slope and angle conversion
- Magnet on measuring base
- Special angle warning and laser are optional



| Length      | Range   | Resolution | Accuracy | Magnet | Code No.  |
|-------------|---------|------------|----------|--------|-----------|
| 150mm / 6"  | 4 x 90° | 0.05°      | ±0.2°    | Yes    | 62060-031 |
| 225mm / 9"  |         |            |          |        | 62090-031 |
| 600mm / 24" |         |            |          |        | 62240-031 |

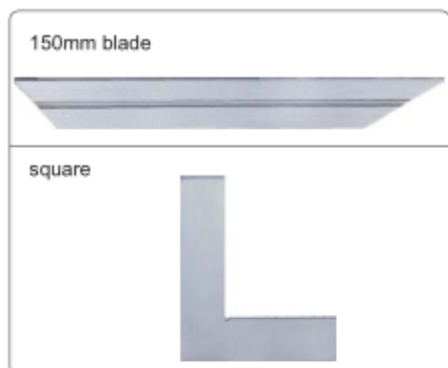
## Digital Protractor

### Features

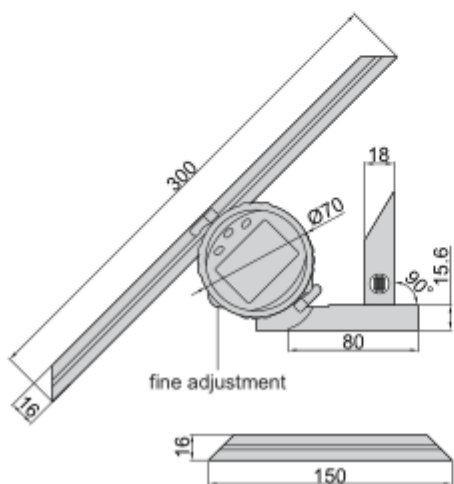
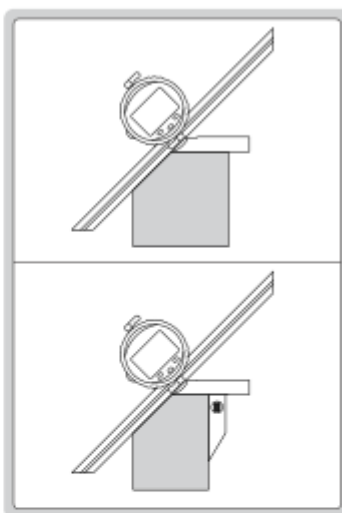
- Measuring range 0 – 360° , choose 0-90°,0-180°,0-360°display
- Display in degree (for example 32.655°) and degree /minute/second(for example 32°39'30")
- Automatic power off
- Supplied with 150mm, 300mm blade and square (to set 90°)
- Made of stainless steel

### Specification:

- Resolution: 30" / 0.005°
- Accuracy:  $\pm 5'$  /  $\pm 0.08^\circ$
- Measuring Range: 360°
- Power: 3V CR2032 Battery



Unit: mm



## Concentricity Gauges

### Features:

- Precision structure with ball bearing slide.
- Can work together with magnetic stand and measuring tools.
- Light and easy to measure concentricity.
- Customization is available



**MCG-A**



### Technical Data

| Model              | Measuring range | Support A        | Support B | Indicator Holder | Structure  |
|--------------------|-----------------|------------------|-----------|------------------|------------|
| <b>MCG-A</b>       | Ø 1-30 mm       | Roller with slot | -         | Y                | Slide Bar  |
| <b>MCG-AR</b>      | Ø 1-30 mm       | Roller with slot | -         | Y                | Slide Rail |
| <b>MTG-A25</b>     | Ø 1.5-25 mm     | Roller with slot | -         | Y                | -          |
| <b>MTG-Y25</b>     | Ø 3-25 mm       | Roller           | -         | Y                | -          |
| <b>MTG-Y25</b>     | Ø 1.5-25 mm     | Roller with slot | -         | Y                | Slide Bar  |
| <b>MTG-H25</b>     | Ø 1.5-25 mm     | Roller           | -         | Y                | Slide Bar  |
| <b>MTG-T25</b>     | Ø 1.5-25 mm     | Roller with slot | Roller    | Y                | Slide Rail |
| <b>MTG-T25-200</b> | Ø 1.5-25 mm     | Roller with slot | Roller    | Y                | Slide Rail |
| <b>MTG-T25-300</b> | Ø 1.5-25 mm     | Roller with slot | Roller    | Y                | Slide Rail |
| <b>MTG-T25-600</b> | Ø 1.5-25 mm     | Roller with slot | Roller    | 2x               | Slide Rail |
| <b>MTG-Y35M</b>    | Ø 3-35 mm       | Roller           | -         | Y                | Motorized  |

## Rockwell Hardness Tester

### Features:

- Half automatic hardness tester except for loading preliminary force and adjusting force knob. Operation is very convenient and fast
- Color touch screen, displays loading force, indenter type, dwell time, and conversion scale
- Motorized control of loading, dwell and unloading, eliminates error by manual operation
- Built-in micro processor auto compute max, min, mean and deviation value, resolution is 0.1HR, largely improving accuracy
- Support multiple languages. Convenient for local customers operation
- Save 2000 single testing results and 1000 group results for reviewing and analysis
- Optional blue tooth mini printer is available



| Code#                   | 751-12-2                                                                     |
|-------------------------|------------------------------------------------------------------------------|
| Rockwell Scales         | HRA、HRB、HRC、HRD、HRE、HRF、HRG、HRH、HRK、HRL、HRM、HRP、HRR、HRS、HRV                  |
| Preliminary Test Force  | 10Kgf(98.07N) Permitted Error: $\pm 2.0\%$                                   |
| Additional Test Fore    | 60Kgf(588.4N)、100Kgf(980.7N)、150Kgf(1471N) Permitted Error: $\pm 1.0\%$      |
| Dwell Time              | Adjustable 1-60s                                                             |
| Hardness Indication     | 5.2" Color Touch Screen, Resolution:640x480                                  |
| Resolution              | 0.1HR                                                                        |
| Loading Control         | Auto Loading/Dwell/Unloading                                                 |
| Hardness Conversion     | HRC、HV、HBS、HBW、HK、HRA、HRD、HR15N、HR30N、HR45N、HS、HRF、HR15T、HR30T、HR45T、HRB     |
| Conversion Standards    | ASTM、DIN                                                                     |
| Language Option         | Chinese, English, German, Portuguese, Turkish, Czech, Korean                 |
| Correction Range        | -3.0HR to +3.0HR, Step 0.1HR                                                 |
| Data Memory             | 2000 Single Measuring Result, Curve Analysis, Results Reviewing And Analysis |
| Data Output             | Optional Blue Tooth Mini Printer                                             |
| Max. Height Of Specimen | 175mm                                                                        |
| Instrument Throat       | 165mm                                                                        |
| Power supply            | AC220V/50Hz;AC110V/60Hz                                                      |
| Execution Standard      | GB/T230.2, EN-ISO6508, ASTM E-18                                             |

## Pen Type Leeb Hardness Tester

### Features:

- D type impact device
- The instrument is compact, convenient, and integrated design without connecting cables, which improves reliability.
- It can also be clearly displayed in direct sunlight, which is applicable to various light conditions without worrying about the strong outdoor light.
- The high-precision measuring circuit ensures the repeatability of the indication value  $\pm 0.8\%$  (HLD=800).
- It supports a variety of hardness systems: HL, HV, HRC, HRB, HB, HS.
- Support USB direct charging battery life, fast and convenient.
- Hardness test block is optional
- Building in Wireless is optional (communicate with Android system, software included)



**MHT10-D**

### Stand Accessories

- D type Impact device
- Small support ring
- Cleaning brush
- Charger
- User manual
- Instrument case

|                     |                                                                                             |                          |                              |
|---------------------|---------------------------------------------------------------------------------------------|--------------------------|------------------------------|
| Measuring Direction | Support 360° (vertical down, oblique down, horizontal, oblique up, vertical up)             |                          |                              |
| Hardness Unit       | HL, HB, HRB, HRC, HV, HS                                                                    |                          |                              |
| Hardness Range      | (170-960)HLD, (19-683)HB, (13.5-101.7)HRB, (17.9-69.5)HRC, (80-1042)HV, (30.6-102.6)HS      |                          |                              |
| Indication Error    | $\pm 0.5\%$ (HLD=800)                                                                       | Indication repeatability | 0.8% (HLD=800)               |
| Size                | 148mm x 30mm x 30mm                                                                         | Power supply             | Rechargeable lithium battery |
| Display             | 128 x 64 OLED LCD                                                                           | Continuous working time  | About 20 hours               |
| Working Condition   | Working temperature-10-50°C; Storage temperature: -30°C-60°C; Relative humidity $\leq 90\%$ |                          |                              |

## Portable Leeb Hardness Tester

### Features:

- Unique full system display, all systems can be displayed on the main interface. No need to look up the table, no need to switch.
- It supports a variety of hardness systems: HL, HV, HRC, HRB, HB, HS
- It can store up to 100 groups of hardness measurement data. Each group of data includes single measurement value, average value, impact direction, times, materials, hardness system, testing time and other information.
- Upper computer software is optional to facilitate reading of data
- Bluetooth printer is optional



**MHT20-D**

### Stand Accessories

- D type Impact device
- Main device
- Hardness test block
- Small support ring
- Cleaning brush
- 5# AA battery
- User manual
- Instrument case

| Measuring Direction | Support 360° (vertical down, oblique down, horizontal, oblique up, vertical up)                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hardness Unit       | HL, HB, HRB, HRC, HV, HS                                                                                                                                     |
| Hardness Range      | (170-960)HLD, (19-683)HB, (13.5-101.7)HRB, (17.9-69.5)HRC, (80-1042)HV, (30.6-102.6)HS                                                                       |
| Indication Error    | $\pm 6\text{HLD}$ (HLD=760 $\pm 30$ )                                                                                                                        |
| Storage             | 100 groups                                                                                                                                                   |
| Materials           | Steel and cast steel, alloy tool steel, grey cast iron, ductile iron, cast aluminum alloy, copper zinc alloy (brass), copper tin alloy (bronze), pure copper |
| Power               | 3V (2pcs of AA size alkaline batteries)                                                                                                                      |

### Optional Impact Device

| Application                                            | Impact Device | Code No.        |
|--------------------------------------------------------|---------------|-----------------|
| Normal smooth, flat surface                            | D             | <b>MHT20-D</b>  |
| Hole or hollow cylindrical                             | DC            | <b>MHT20-DC</b> |
| Slender narrow groove or hole                          | DL            | <b>MHT20-DL</b> |
| Groove or re-entrant surface                           | DP            | <b>MHT20-DP</b> |
| Small ,light, thin parts and surface of hardened layer | C             | <b>MHT20-C</b>  |
| Large, thick, heavy and rough surface steel I          | G             | <b>MHT20-G</b>  |
| Suitable for high hardness material                    | E             | <b>MHT20-E</b>  |

## Portable Leeb Hardness Tester with Printer

### Features:

- Built-in printer, can print testing results any time
- Large screen (320\*240 true color TFT screen and two hardness scales can be displayed at the same time)
- Hardness test can be taken at narrow space and any angle including inverted.
- A wide measuring range supports all metallic materials. Add customized material function, no limitation of measured material
- Seven impact devices are available for special application with automatic impact device recognition.
- Has starting value calibration function, ensure the data is applicable and accurate in different codes and standards
- Large capacity memory storage of 600 subs groups. Stored information including single measured value, mean value, test data, impact direction, impact times, material and hardness scale are available.
- Preset limitation function; it will automatic alarm when the reading is out of range. Especially suitable for batch testing
- Battery voltage information is displayed including the charge status.
- USB port allows information to be uploaded directly to PC.
- High speed thermal printer allows the readings to be immediately printed.
- Rechargeable Li-battery; Automatic power off function.



**MHT90P**

### Stand Accessories

- D type Impact device
- Hardness test block
- Small support ring
- Cleaning brush
- Communication cable
- PC software
- User manual
- Instrument case

| Application                                            | Range                                         | Accuracy                                    | Impact Device | Code No. |
|--------------------------------------------------------|-----------------------------------------------|---------------------------------------------|---------------|----------|
| Normal smooth, flat surface                            | (170-960) HLD<br>(17-68.5) HRC<br>(19-651) HB | HLD: $\pm 5$<br>HRC: $\pm 1$<br>HB: $\pm 4$ | D             | MHT90-D  |
| Hole or hollow cylindrical                             |                                               |                                             | DC            | MHT90-DC |
| Slender narrow groove or hole                          |                                               |                                             | DL            | MHT90-DL |
| Groove or re-entrant surface                           |                                               |                                             | DP            | MHT90-DP |
| Small ,light, thin parts and surface of hardened layer |                                               |                                             | C             | MHT90-C  |
| Large, thick, heavy and rough surface steel I          |                                               |                                             | G             | MHT90-G  |
| Suitable for high hardness material                    |                                               |                                             | E             | MHT90-E  |

## Portable Hardness Tester

### Features:

- Full metal shell design, sturdy. Portable, high reliability
- Large screen (128×64 dot matrix LCD), allows for clear display of all functions and parameters
- Hardness test can be taken at any angle including inverted.
- A wide measuring range supports the hardness of all metallic materials. Hardness results are directly displayed
- Seven impact devices are available for special application with automatic impact device recognition.
- Large capacity memory storage of 600 subs groups. Stored information including single measured value, mean value, test data, impact direction, impact times, material and hardness scale are available.
- Upper and lower limit can be preset. An audio alarm will automatically sound when the reading is outside of the preset limits.
- Battery voltage information is displayed including the charge status.
- Starting calibration and user calibration function are available.
- USB port allows for information to be uploaded directly to PC.
- Automatic power off.



**MHT80**

### Stand Accessories

- Impact device
- Hardness test block
- Small support ring
- Cleaning brush
- Communication cable
- PC software
- User manual
- Instrument case

| Application                                            | Range                                            | Accuracy                                    | Impact Device | Code No.        |
|--------------------------------------------------------|--------------------------------------------------|---------------------------------------------|---------------|-----------------|
| Normal smooth, flat surface                            | (170-960)<br>HLD<br>(17-68.5) HRC<br>(19-651) HB | HLD: $\pm 5$<br>HRC: $\pm 1$<br>HB: $\pm 4$ | D             | <b>MHT80-D</b>  |
| Hole or hollow cylindrical                             |                                                  |                                             | DC            | <b>MHT80-DC</b> |
| Slender narrow groove or hole                          |                                                  |                                             | DL            | <b>MHT80-DL</b> |
| Groove or re-entrant surface                           |                                                  |                                             | DP            | <b>MHT80-DP</b> |
| Small ,light, thin parts and surface of hardened layer |                                                  |                                             | C             | <b>MHT80-C</b>  |
| Large, thick, heavy and rough surface steel I          |                                                  |                                             | G             | <b>MHT80-G</b>  |
| Suitable for high hardness material                    |                                                  |                                             | E             | <b>MHT80-E</b>  |

## Portable Hardness Tester

### Features:

- Large screen (128×64 dot matrix LCD), allows for clear display of all functions and parameters
- Hardness test can be taken at any angle including inverted.
- A wide measuring range supports the hardness of all metallic materials. Hardness results are directly displayed
- Seven impact devices are available for special application with automatic impact device recognition.
- Large capacity memory storage of 600 subs groups. Stored information including single measured value, mean value, test data, impact direction, impact times, material and hardness scale are available.
- Preset limitation function; it will automatic alarm when the reading is out of range. Especially suitable for batch testing
- Battery information is displayed.
- Starting calibration and user calibration function are available.
- USB port allows for information to be uploaded directly to PC.
- Automatic power off.



**MHT30**

### Stand Accessories

- Impact device
- Hardness test block
- Small support ring
- Cleaning brush
- Communication cable
- PC software
- User manual
- Instrument case

| Application                                            | Range                                         | Accuracy                                    | Impact Device | Code No.        |
|--------------------------------------------------------|-----------------------------------------------|---------------------------------------------|---------------|-----------------|
| Normal smooth, flat surface                            | (170-960) HLD<br>(17-68.5) HRC<br>(19-651) HB | HLD: $\pm 5$<br>HRC: $\pm 1$<br>HB: $\pm 4$ | D             | <b>MHT30-D</b>  |
| Hole or hollow cylindrical                             |                                               |                                             | DC            | <b>MHT30-DC</b> |
| Slender narrow groove or hole                          |                                               |                                             | DL            | <b>MHT30-DL</b> |
| Groove or re-entrant surface                           |                                               |                                             | DP            | <b>MHT30-DP</b> |
| Small ,light, thin parts and surface of hardened layer |                                               |                                             | C             | <b>MHT30-C</b>  |
| Large, thick, heavy and rough surface steel I          |                                               |                                             | G             | <b>MHT30-G</b>  |
| Suitable for high hardness material                    |                                               |                                             | E             | <b>MHT30-E</b>  |

## Digital Shore A/D Type Rubber Hardness Tester

- LED display
- Capacitive measurement system
- Response speed 1.5m/s
- Data hold function



| Range   | Resolution | Accuracy | Code No.      |
|---------|------------|----------|---------------|
| 0-100HA | 0.5HA      | 2HA      | <b>MHA100</b> |
| 0-100HD | 0.5HD      | 2HD      | <b>MHD100</b> |

## Portable Surface Roughness Tester

### Features:

- Composite structure, small size, light weight
- DSP chip control and data processing, high speed, low power consumption
- Automatically shift the measuring range
- Dynamic display waveform in real time
- Using TYPE C and Mini USB interface, applied to communication and automatic control
- Capable of change display orientation for easy operation to suit right, left-hander
- Can choose standards among ISO4287, ANSI B46.1, DIN4768, JISb601 and other national standards
- Upper and lower limit alarm can be set
- Support to delete single or multiple records
- Display full information, intuitive and graphical displays all parameters
- Built in lithium-ion rechargeable battery and control circuit, high capacity, no memory effect
- The tester can graphically display the remaining battery power
- Continuous working time 20 hours
- Large capacity data storage, can store 100 item of raw data and measured profile
- Real-time clock setting and display for easy data recording and storage
- With automatic sleep, automatic shutdown power-saving features
- Reliable circuit and software design of prevent the motor stuck
- Instrument can display a variety of information tips and instructions. For example Measurement result display, the menu prompts and error message
- All parameters can be printed or print any of the parameters which set by the user
- Can be connected with computer and mini printer
- Optional: curved sensor, very small holes sensor, measurement stand, extension rod, printer etc.



**MSR230**

### Technical Data

|                |                         |                                                                                      |
|----------------|-------------------------|--------------------------------------------------------------------------------------|
| Measuring rang | The Z axis (vertical)   | 160μm                                                                                |
|                | The X axis (Transverse) | 17.5mm / 0.69 inch                                                                   |
| Resolution     | the Z axis (vertical)   | 0.002μm/±20μm, 0.004μm/±40μm, 0.008μm/±80μm                                          |
| Screen         |                         | 320× 240 dot matrix, color Display                                                   |
| Parameter      |                         | Ra, Rz, Ry, Rq, Rc, Rt, Rmax, Rp, Rv, R3z, R3y, Rz(JIS), Rs, Rsk, Rku, Rsm, Rpc, Rmr |
| Standard       |                         | ISO4287,ANSI b46.1,DIN4768,JISb601                                                   |

|                          |                  |                                                                                        |
|--------------------------|------------------|----------------------------------------------------------------------------------------|
| Graphic                  |                  | primary profile, roughness profile, load curves                                        |
| Filter                   |                  | RC, PC-RC, Gauss, D-P                                                                  |
| The sampling length(lr)  |                  | 0.25, 0.8, 2.5mm                                                                       |
| Assessment length (ln)   |                  | $ln = lr \times n$ $n=1 \sim 5$                                                        |
| Sensor                   | Stylus tip       | Natural Diamond, 90°/60°angle, 2μm/5μm tip radius                                      |
|                          | Measuring Force  | <4mN                                                                                   |
|                          | Probe head       | hard alloy, skid radius of curvature: 40mm                                             |
|                          | Traversing speed | lr=0.25, Vt=0.135mm/s      lr=0.8, Vt=0.5mm/s<br>lr=2.5, Vt=1mm/s      Return Vt=1mm/s |
| Accuracy                 |                  | ±(5nm+0.1A) A: Ra of calibration test block                                            |
| Repeatability            |                  | not more than 3%                                                                       |
| Power supply             |                  | Built-in 3.7VLithium ion battery, Charger :DC5V, 800mA                                 |
| Outline dimension        |                  | 142×55×40mm                                                                            |
| working Environment      |                  | Temperature: - 20°C ~ 40°C<br>Humidity: < 90% RH                                       |
| Store and Transportation |                  | Temperature: - 40°C ~ 60°C<br>Humidity: < 90% RH                                       |

### Probe Option

| Probe |                        | Description                                                                                                                                                                                                                                            |
|-------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| KS100 | Small hole sensor      | Measure most of the plane, inclined plane, cone surface, inner hole, groove and other surface roughness. Need to work with platform KA520 or KA620.                                                                                                    |
| KS110 | Curved surface sensor  | Measure smooth cylindrical surface which radius is larger than 3mm, for the large radius smooth spherical surface and other surface also can obtain good approximation.                                                                                |
| KS120 | Very small hole sensor | Measure inner surfaces of holes with radius more than 2mm. Need to work with platform KA520 or KA620.                                                                                                                                                  |
| KS130 | Groove sensor          | Measure surface for groove with width $\geq 2.5\text{mm}$ , depth $\leq 3\text{mm}$ , and for steps with height $\leq 3\text{mm}$                                                                                                                      |
| KS131 | Deep groove sensor     | Measure groove with width wider than 3mm and depth deeper than 10mm, or the surface roughness of step with height less than 10mm, also can be used to measure the planar, cylindrical used with platform, better to work with platform KA520 or KA620. |

## Portable Surface Roughness Tester

### Features:

- Mechatronics and ergonomics design, small size, light weight, easy to operation
- The stylus drive unit can be stored within the main unit for standard measurement, or separated from the display unit by using the supplied cable which allows more flexible measurement in any orientation. The driver can be separated and reattached in one simple step
- 3.5 inches color graphic LCD touch screen, it includes a backlight for visibility in dark environments
- It displays all parameter and graphic
- Can be operated using the buttons or the touch screen
- Measurement range up to 320 $\mu$ m
- Large internal memory: 100 item of raw data and curves can be stored
- Provides Bluetooth Capability , support wireless connection with mobile and mini printer
- Built-in lithium-ion rechargeable battery and controlling circuit, high capacity, no memory effect
- There is remaining charge indicator, charging hint
- It works over 50 hours while fully charged.
- Language: Chinese and English
- DSP chip control and data processing, high speed, low power consumption
- Real-time clock setting and display for easy data recording and storage
- With auto sleep, auto power off, power-saving features
- Reliable circuit and software design to preventing the motor stuck
- All parameters or any of the parameters which set by users can be printed



**MSR310**

### Technical Data

|                         |                         |                                                                                           |
|-------------------------|-------------------------|-------------------------------------------------------------------------------------------|
| Measuring rang          | The Z axis (vertical)   | 320μm (-160μm~+160μm) , 12600μin (-6300μin~+6300μin)                                      |
|                         | The X axis (Transverse) | 17.5mm (0.69 inch)                                                                        |
| Resolution              | the Z axis (vertical)   | 0.002μm/±20μm, 0.004μm/±40μm<br>0.008μm/±80μm, 0.02μm/±160μm                              |
| Parameter               |                         | Ra Rz Rq Rt Rc Rp Rv R3z R3y Rz(JIS) Ry Rs Rsk Rku Rmax Rsm<br>Rmr RPc Rk Rpk Rvk Mr1 Mr2 |
| Graphic                 |                         | load curve, Roughness profile, filtered curve                                             |
| Filter                  |                         | RC,PC-RC,Gauss,D-P                                                                        |
| The sampling length(lr) |                         | 0.25, 0.8, 2.5mm                                                                          |
| Assessment length (ln)  |                         | Ln= lr×n n=1~5                                                                            |

|                          |                  |                                                                                        |
|--------------------------|------------------|----------------------------------------------------------------------------------------|
| Sensor                   | Stylus tip       | Diamond, 90 cone angle, 5 $\mu$ mR                                                     |
|                          | Measuring Force  | Measuring force<4mN, Skid force<400mN                                                  |
|                          | Probe head       | hard alloy, skid radius of curvature: 40mm                                             |
|                          | Traversing speed | lr=0.25, Vt=0.135mm/s      lr=0.8, Vt=0.5mm/s<br>lr=2.5, Vt=1mm/s      Return Vt=1mm/s |
| Precision                |                  | 0.001 $\mu$ m                                                                          |
| Tolerance                |                  | not more than $\pm 10\%$                                                               |
| Repeatability            |                  | not more than 6%                                                                       |
| Power supply             |                  | Built-in Lithium ion battery 3200mAh, Charger :DC5V                                    |
| Outline dimension        |                  | Main unit: 158 $\times$ 55 $\times$ 52mm drive unit: 23 $\times$ 27 $\times$ 115mm     |
| working Environment      |                  | Temperature: - 20 $^{\circ}$ C ~ 40 $^{\circ}$ C<br>Humidity: < 90% RH                 |
| Store and Transportation |                  | Temperature: - 40 $^{\circ}$ C ~ 60 $^{\circ}$ C<br>Humidity: < 90% RH                 |
| Standards                |                  | ISO4287, ANSI B46.1, DIN4768, JIS B601                                                 |
| Standard Sensor          |                  | Groove Sensor                                                                          |

### Probe Option

| Probe |                        | Description                                                                                                                                                                                                                                            |
|-------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| KS100 | Small hole sensor      | Measure most of the plane, inclined plane, cone surface, inner hole, groove and other surface roughness. Need to work with platform KA520 or KA620.                                                                                                    |
| KS110 | Curved surface sensor  | Measure smooth cylindrical surface which radius is larger than 3mm, for the large radius smooth spherical surface and other surface also can obtain good approximation.                                                                                |
| KS120 | Very small hole sensor | Measure inner surfaces of holes with radius more than 2mm. Need to work with platform KA520 or KA620.                                                                                                                                                  |
| KS130 | Groove sensor          | Measure surface for groove with width $\geq 2.5$ mm, depth $\leq 3$ mm, and for steps with height $\leq 3$ mm                                                                                                                                          |
| KS131 | Deep groove sensor     | Measure groove with width wider than 3mm and depth deeper than 10mm, or the surface roughness of step with height less than 10mm, also can be used to measure the planar, cylindrical used with platform, better to work with platform KA520 or KA620. |

## Portable Surface Roughness Tester

### Features:

- Mechatronics design, embedded printer can directly print out measurement results and graphics
- External drive unit, allows more flexible measurement in side, upward, and other orientation
- 320 $\mu$ m large measuring range (enhanced type up to 640 $\mu$ m, optional)
- 3.5 inches color graphic LCD touch screen with backlight provide high brightness and wide viewing angle
- Easy button and touch screen dual operation
- The display information is rich, intuitive, and displays all parameters and graphics
- Compatible with ISO, DIN, ANSI, JIS and many national standards
- Built-in lithium-ion rechargeable battery, charging control circuit, high capacity, no memory effect
- include charge indicator, charging hint
- Continuous working time is more than 50 hours
- Large internal memory: 100 groups of original data and waveform can be stored
- Real-time clock setting and display, convenient for data recording and storage.
- With automatic sleep, automatic shutdown and other power-saving functions
- Reliable circuit and software design to prevent the motor stuck



**MSR320**

### Technical Data

|                         |                         |                                                                                           |
|-------------------------|-------------------------|-------------------------------------------------------------------------------------------|
| Measuring rang          | The Z axis (vertical)   | 640μm (-320μm~+320μm) , 25200μin (-12600μin~+12600μin)                                    |
|                         | The X axis (Transverse) | 17.5mm (0.69 inch)                                                                        |
| Resolution              | the Z axis (vertical)   | 0.002μm/±20μm, 0.004μm/±40μm                                                              |
|                         |                         | 0.008μm/±80μm, 0.02μm/±160μm, 0.04μm/±160μm                                               |
| Parameter               |                         | Ra Rz Rq Rt Rc Rp Rv R3z R3y Rz(JIS) Ry Rs Rsk Rku Rmax Rsm<br>Rmr RPc Rk Rpk Rvk Mr1 Mr2 |
| Graphic                 |                         | Rmr curve, Roughness curve, Primary Profile, Filter waveform                              |
| Filter                  |                         | RC,PC-RC, Gauss, D-P                                                                      |
| The sampling length(lr) |                         | 0.25, 0.8, 2.5mm                                                                          |
| Assessment length (ln)  |                         | Ln= lr×n n=1~5                                                                            |
| Sensor                  | Stylus tip              | Diamond, 90 cone angle, 5μmR                                                              |
|                         | Measuring Force         | Measuring force<4mN, Skid force<400mN                                                     |
|                         | Probe head              | hard alloy, skid radius of curvature: 40mm                                                |
|                         | Traversing speed        | lr=0.25, Vt=0.135mm/s lr=0.8, Vt=0.5mm/s                                                  |

|                          |  |                                                     |
|--------------------------|--|-----------------------------------------------------|
|                          |  | Ir=2.5, Vt=1mm/s      Return    Vt=1mm/s            |
| Precision                |  | 0.001μm                                             |
| Tolerance                |  | not more than ±10%                                  |
| Repeatability            |  | ≤ 3%                                                |
| Power supply             |  | Built-in Lithium ion battery 3600mAh, Charger: DC5V |
| Outline dimension        |  | Main unit: 155×145×58mm    drive unit: 23×27×115mm  |
| working Environment      |  | Temperature: - 20°C ~ 40°C<br>Humidity: < 90% RH    |
| Store and Transportation |  | Temperature: - 20°C ~ 40°C<br>Humidity: < 90% RH    |
| Standards                |  | ISO4287, ANSI B46.1, DIN4768, JIS B601              |
| Standard Sensor          |  | Groove Sensor                                       |

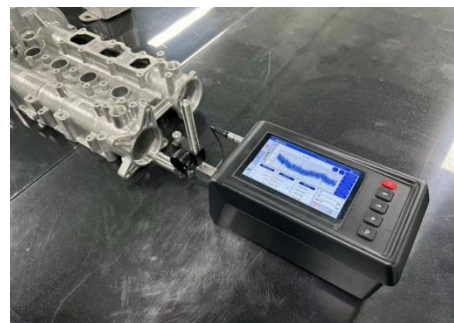
### Probe Option

| Probe |                        | Description                                                                                                                                                                                                                                            |
|-------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| KS100 | Small hole sensor      | Measure most of the plane, inclined plane, cone surface, inner hole, groove and other surface roughness. Need to work with platform KA520 or KA620.                                                                                                    |
| KS110 | Curved surface sensor  | Measure smooth cylindrical surface which radius is larger than 3mm, for the large radius smooth spherical surface and other surface also can obtain good approximation.                                                                                |
| KS120 | Very small hole sensor | Measure inner surfaces of holes with radius more than 2mm. Need to work with platform KA520 or KA620.                                                                                                                                                  |
| KS130 | Groove sensor          | Measure surface for groove with width ≥2.5mm, depth ≤3mm, and for steps with height ≤3mm                                                                                                                                                               |
| KS131 | Deep groove sensor     | Measure groove with width wider than 3mm and depth deeper than 10mm, or the surface roughness of step with height less than 10mm, also can be used to measure the planar, cylindrical used with platform, better to work with platform KA520 or KA620. |

## Roughness Waviness Tester

### Brief introduction

- Integrated roughness waviness tester is used to describe the surface structure of processed parts, and is suitable for testing in workshop verification stations, laboratories, measurement rooms, and other environments. It is also suitable for on-site measurement. It can evaluate 5 measurement types: roughness profile, waviness profile, primary profile, abbot curve and motif. The measurement parameters include China, Japan, United States, Germany, and various ISO standards. With a user-friendly software interface and convenient operating habits, software can record configurations under different operating scenarios. When measuring different work pieces, it is not need to make complicated settings, just select the configuration and click to measure.



### Product features

- 30mm large stroke
- $\pm 500\mu\text{m}$  ultra-large range inductive sensor
- Roughness Profile, Waviness Profile, Primary Profile, Abbott Curve and Motif can be measured.
- Using the measurement method without guide head. Only a stylus can solve R angle, deep groove, curved surface, deep hole, channel and other complex work pieces.
- The sensor is connected to the host through a lifting frame, and the height of the sensor can be adjusted without the aid of a platform
- The combination of software + instrument makes it more convenient to carry.
- The parameters are complete, including 5 measurement types and various national standards.

### Technical Parameters

| Mode               |                                                                       | MSR330                                                                                                        |
|--------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Range              | X direction                                                           | 30mm                                                                                                          |
|                    | Z direction                                                           | $\pm 500\mu\text{m}$                                                                                          |
| Sensor resolution  |                                                                       | $0.0016\mu\text{m}/\pm 50\mu\text{m} \sim 0.016\mu\text{m}/\pm 500\mu\text{m}$                                |
| Driver             | Straightness                                                          | $1\mu\text{m}/200\text{mm}$                                                                                   |
| Analysis Algorithm | Executive standard                                                    |                                                                                                               |
|                    | JIS-82、JIS-87、JIS-94、JIS-01、JIS-13、ISO-84、ISO-97、DIN-90、ASME-95、GB-14 |                                                                                                               |
|                    | P a r a m e t e r                                                     |                                                                                                               |
|                    | Roughness Profile                                                     | Ra75、Rq、Rp、Rv、Rc、Rt、S、R3z、PPI、Ra、Rsk、Rku、Ry、Sm、RΔa、RΔq、Rz、Pc、Rλa、Rλq、Ir、RSm、Rz94、RPc、RS、Rz.I、Rpm、HSC          |
|                    | Waviness Profile                                                      | WCA、WCC-q、WCC-p、WCC-v、WCC-m、WCC2Sm、WCA、WC-q、WC2p、WC-v、WCM、WC2Sm、WC-t、Wa、Wq、Wsk、Wku、Wp、Wv、Wz、Wc、Wt、WSm、WΔq、WPc |

|                   |                      |                 |                                                                                                                         |                                                                                                             |
|-------------------|----------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
|                   | r<br>s               | Primary Profile |                                                                                                                         | Rsk、Rku、Rmax、Sm、Δa、Δq、Rz、λa、λq、Ir、TILT A、AVH、Hmax、Hmin、AREA、Rz.J、Pa、Pq、Psk、Pku、Pp、Pv、Pc.I、Pt、PSm、PΔq、PPc、Pc |
|                   |                      | Abbot Curve     |                                                                                                                         | Rk、Rpk、Rvk、Mr1、Mr2、V0、K、A1、A2                                                                               |
|                   |                      | Motif           |                                                                                                                         | NCRX、AR、R、Rx、NR、CPM、SR、SAR、AW、W、Wx、Wte、NW、SW、SAW、Rke、Rpke、Rvke、Mr1、Mr2、V0、K                                 |
|                   | Evaluation Curve     |                 | Roughness profile 、Waviness profile、Primary profile、Abbot curve、Motif                                                   |                                                                                                             |
|                   | Characteristic curve |                 | Abbot curve(Rmr(c) 、Rmr2(c)、Rδc(c)、tp(c)、tp2(c)、Htp(c))、amplitude frequency analysis curve、amplitude distribution curve |                                                                                                             |
|                   | Form Remove          |                 | Global、first half、second half、center、2 points、curve                                                                     |                                                                                                             |
|                   | Filter type          |                 | Gaussian、FFT、PC、DP、2RC                                                                                                  |                                                                                                             |
|                   | Filter wave length   | λs              | 0、2.5、8、25μm                                                                                                            |                                                                                                             |
|                   |                      | λc              | 0.08、0.25、0.8、2.5、8mm                                                                                                   |                                                                                                             |
|                   |                      | λf              | 0.8、2.5、8、25mm                                                                                                          |                                                                                                             |
| Evaluation length |                      |                 |                                                                                                                         | Sampling length X number of samples                                                                         |
| Measurement speed |                      |                 |                                                                                                                         | 0.05mm/s、0.10mm/s、0.50mm/s、1.00mm/s、2.00mm/s                                                                |
| Return speed      |                      |                 |                                                                                                                         | 0.05mm/s、0.10mm/s、0.50mm/s、1.00mm/s、2.00mm/s                                                                |
| Sensor            | Mode                 |                 | Standard universal type                                                                                                 |                                                                                                             |
|                   | Sensor mode          |                 | Differential inductance                                                                                                 |                                                                                                             |
|                   | Stylus               |                 | 5μmR diamond90°                                                                                                         |                                                                                                             |
|                   | Measuring force      |                 | 0.4 - 7.5mN adjustable                                                                                                  |                                                                                                             |
| Operator          | Display part         |                 | 5-inch color IPS touch screen                                                                                           |                                                                                                             |
|                   | Data output          |                 | TF card/Flash disk/ WiFi printing                                                                                       |                                                                                                             |
|                   | Languages            |                 | Chinese, English                                                                                                        |                                                                                                             |
| Power             |                      |                 |                                                                                                                         | AC220V, Built-in rechargeable battery (AC adapter charging)                                                 |

### Standard configurations

|                               |   |
|-------------------------------|---|
| Main device                   | 1 |
| Sensor                        | 1 |
| Charger                       | 1 |
| Standard stylus               | 1 |
| Roughness standard test block | 1 |
| Product certificate           | 1 |
| Product manual                | 1 |
| Warranty card                 | 1 |
| Waterproof Instrument case    | 1 |
| Allen wrench                  | 1 |

## Roughness Waviness Tester

### Brief introduction

- MSR330P roughness waviness tester is a multi-purpose portable Instrument for evaluating the surface quality of parts. It has multiple parameters that comply with multiple international standards. It can evaluate the roughness, waviness and primary profile of a variety of parts' surfaces. It has characteristics of large measuring range, stable performance and high precision, and suitable for production sites, scientific research laboratories and enterprise measurement rooms. The measurement results can be displayed on the LCD in digital and graphic ways, or output to the printer, and also can be connected to a computer. The special computer analysis software can directly control the measurement operation and provide powerful advanced analysis functions.



### Product features

- 50mm large stroke
- $\pm 500\mu\text{m}$  and  $\pm 1000\mu\text{m}$  ultra-large range inductive sensor are optional
- Roughness Profile, Waviness Profile, Primary Profile, Abbott Curve and Motif can be measured.
- Using the measurement method without guide head. Only a stylus can solve R angle, deep groove, curved surface, deep hole, channel and other complex work pieces.
- The sensor is connected to the host through a lifting frame, and the height of the sensor can be adjusted without the aid of a platform
- The combination of software + instrument makes it more convenient to carry.
- The parameters are complete, including 5 measurement types and various national standards.

### Technical Parameters

| Mode               |                    | MSR330P-                                                                       | MSR330P+                                                                                                      |
|--------------------|--------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Range              | X direction        | 50mm                                                                           |                                                                                                               |
|                    | Z direction        | $\pm 500\mu\text{m}$                                                           | $\pm 1000\mu\text{m}$                                                                                         |
| Sensor resolution  |                    | $0.0016\mu\text{m}/\pm 50\mu\text{m} \sim 0.016\mu\text{m}/\pm 500\mu\text{m}$ |                                                                                                               |
| Driver             | Straightness       | $1\mu\text{m}/200\text{mm}$                                                    |                                                                                                               |
| Analysis Algorithm | Executive standard |                                                                                | JIS-82、JIS-87、JIS-94、JIS-01、JIS-13、ISO-84、ISO-97、DIN-90、ASME-95、GB-14                                         |
|                    | P a r a m e t e r  | Roughness Profile                                                              | Ra75、Rq、Rp、Rv、Rc、Rt、S、R3z、PPI、Ra、Rsk、Rku、Ry、Sm、RΔa、RΔq、Rz、Pc、Rλa、Rλq、Ir、RSm、Rz94、RPc、RS、Rz.I、Rpm、HSC          |
|                    |                    | Waviness Profile                                                               | WCA、WCC-q、WCC-p、WCC-v、WCC-m、WCC2Sm、WCA、WC-q、WC2p、WC-v、WCM、WC2Sm、WC-t、Wa、Wq、Wsk、Wku、Wp、Wv、Wz、Wc、Wt、WSm、WΔq、WPc |

|                   |                      |                 |                                                                                                                         |                                                                                                             |
|-------------------|----------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
|                   | r<br>s               | Primary Profile |                                                                                                                         | Rsk、Rku、Rmax、Sm、Δa、Δq、Rz、λa、λq、Ir、TILT A、AVH、Hmax、Hmin、AREA、Rz.J、Pa、Pq、Psk、Pku、Pp、Pv、Pc.I、Pt、PSm、PΔq、PPc、Pc |
|                   |                      | Abbot Curve     |                                                                                                                         | Rk、Rpk、Rvk、Mr1、Mr2、V0、K、A1、A2                                                                               |
|                   |                      | Motif           |                                                                                                                         | NCRX、AR、R、Rx、NR、CPM、SR、SAR、AW、W、Wx、Wte、NW、SW、SAW、Rke、Rpke、Rvke、Mr1、Mr2、V0、K                                 |
|                   | Evaluation Curve     |                 | Roughness profile 、Waviness profile、Primary profile、Abbot curve、Motif                                                   |                                                                                                             |
|                   | Characteristic curve |                 | Abbot curve(Rmr(c) 、Rmr2(c)、Rδc(c)、tp(c)、tp2(c)、Htp(c))、amplitude frequency analysis curve、amplitude distribution curve |                                                                                                             |
|                   | Form Remove          |                 | Global、first half、second half、center、2 points、curve                                                                     |                                                                                                             |
|                   | Filter type          |                 | Gaussian、FFT、PC、DP、2RC                                                                                                  |                                                                                                             |
|                   | Filter wave length   | λs              | 0、2.5、8、25μm                                                                                                            |                                                                                                             |
|                   |                      | λc              | 0.08、0.25、0.8、2.5、8mm                                                                                                   |                                                                                                             |
|                   |                      | λf              | 0.8、2.5、8、25mm                                                                                                          |                                                                                                             |
| Evaluation length |                      |                 | Sampling length X number of samples                                                                                     |                                                                                                             |
| Measurement speed |                      |                 | 0.05mm/s、0.10mm/s、0.50mm/s、1.00mm/s、2.00mm/s                                                                            |                                                                                                             |
| Return speed      |                      |                 | 0.05mm/s、0.10mm/s、0.50mm/s、1.00mm/s、2.00mm/s                                                                            |                                                                                                             |
| Sensor            | Mode                 |                 | Standard universal type                                                                                                 |                                                                                                             |
|                   | Sensor mode          |                 | Differential inductance                                                                                                 |                                                                                                             |
|                   | Stylus               |                 | 5μmR diamond90°                                                                                                         |                                                                                                             |
|                   | Measuring force      |                 | 0.4 - 7.5mN adjustable                                                                                                  |                                                                                                             |
| Operator          | Display part         |                 | 10-inch color IPS touch screen                                                                                          |                                                                                                             |
|                   | Data output          |                 | TF card/Flash disk/ WiFi printing                                                                                       |                                                                                                             |
|                   | Languages            |                 | Chinese, English                                                                                                        |                                                                                                             |
| Power             |                      |                 | AC220V, Built-in rechargeable battery (AC adapter charging)                                                             |                                                                                                             |

### Standard configurations

|                               |   |
|-------------------------------|---|
| Main device                   | 1 |
| Sensor                        | 1 |
| Industrial Pad                | 1 |
| Charger                       | 1 |
| Standard stylus               | 1 |
| Roughness standard test block | 1 |
| Product certificate           | 1 |
| Product manual                | 1 |
| Warranty card                 | 1 |
| Waterproof Instrument case    | 1 |
| Allen wrench                  | 1 |

## Ultrasonic Thickness Gauge

### Features:

- Adopting PE and VERI measuring modes, accurate thickness measurement can be carried out for various materials
- Using high precision timing chip and V-PATH calibration model, the measurement range is wide and the measurement precision is high
- Display resolution is 0.01mm
- LCD display contrast adjustable, and with LED backlight, can be used in variety of environments



**MUT100**

### Technical Data

| Working Theory    | Ultrasonic                              | Measuring Error     | H < 10mm: $\pm 0.05\text{mm}$<br>H $\geq 10\text{mm}$ : $\pm (0.05 + H/100)\text{mm}$ |
|-------------------|-----------------------------------------|---------------------|---------------------------------------------------------------------------------------|
| Testing Model     | PE / VERI                               | Testing Range       | 0.65 - 500 mm                                                                         |
| Resolution        | 0.01mm                                  | Display Size        | 2.0" FSTN                                                                             |
| Testing Materials | Steel, Iron, Glass<br>Plastic, Aluminum | Velocity Range      | 1000 – 9999 m/s                                                                       |
| Storage Capacity  | 500 group data                          | Working Temperature | 0°C~50°C                                                                              |
| Humidity          | $\leq 90\%$                             | Power               | 2x 1.5V AA battery                                                                    |

### Probe Option

| Probe | Spec                   | Measuring Range | Working Temperature |
|-------|------------------------|-----------------|---------------------|
| 5M    | Standard probe         | 1.0-250 mm      | -10 ~ 60°C          |
| 2M    | Coarse grain probe     | 2.0-500 mm      |                     |
| 7M    | High precision probe   | 0.75-35 mm      |                     |
| H2M   | High temperature probe | 4.0-80.0 mm     | -10 ~ 350°C         |

## Integrated Coating Thickness Gauge

### Features:

- Integration of two thickness measurement methods, magnetic and eddy current
- Can measure the thickness of the non-magnetic coating layer on the magnetic metal substrate, and the thickness of the non-conductive or non-magnetic coating layer on the non-magnetic metal substrate.
- High-precision measurement mode can average multiple measurements and automatically filter suspicious data to ensure more accurate and stable measurement values; fast measurement mode can realize real-time scanning function.
- With temperature compensation function: The domestic leading real-time temperature compensation technology can automatically compensate the measurement error caused by the environment temperature and the temperature change of the probe, making the measurement more accurate.
- Equipped with Bluetooth adapter, can connect to the upper computer software, making it easy to view data and export data documents.
- PC software optional, convenient the data transmission, analysis, printing etc.



**MCT100**

### Technical Data

| Working Principle      |                                                                                      | Magnetic indication | Eddy currents                                |
|------------------------|--------------------------------------------------------------------------------------|---------------------|----------------------------------------------|
| Probe type             |                                                                                      | F                   | N                                            |
| Measurement range (μm) |                                                                                      | 0-1500              | 0-1500<br>Chromium plating<br>on copper 0-40 |
| Resolution (μm)        |                                                                                      | 0.1                 |                                              |
| Indication value       | One-point calibration (μm)<br>(H is the actual thickness of the measurement object)  | $\pm(3\%H+1)$       | $\pm(3\%H+1.5)$                              |
|                        | Two-points calibration (μm)<br>(H is the actual thickness of the measurement object) | $\pm[(1-3)\%H+1]$   | $\pm[(1-3)\%H+1.5]$                          |
| Test conditions        | Minimum radius of curvature (mm)                                                     | Convex 3            | Convex 3                                     |
|                        | Diameter of minimum area (mm)                                                        | Ø7                  |                                              |
|                        | Critical thickness of matrix (mm)                                                    | 0.5                 | 0.3                                          |

## Portable Coating Thickness Tester

### Features:

- Integration of two thickness measurement methods, which can measure the thickness of the non-magnetic coating layer on the magnetic metal substrate and non-conductive coating layer on the non-magnetic metal substrate.
- There are three measurement modes: high-precision measurement mode can average multiple measurements and automatically filter suspicious data to ensure more accurate and stable measurement values; fast measurement mode can realize real-time scanning function.
- With temperature compensation function. The domestic leading real-time temperature compensation technology can automatically compensate the measurement error caused by the environment temperature and the temperature change of the probe, making the measurement more accurate.
- There are five statistics: mean value (MEAN), maximum value (MAX), minimum value (MIN), number of measurements (NO.), and standard deviation (S.DEV).
- Support real-time upload of coating thickness via Bluetooth



**MCT200**

### Technical Data

| Working Principle      |                                                                                      | Magnetic indication        | Eddy currents                             |
|------------------------|--------------------------------------------------------------------------------------|----------------------------|-------------------------------------------|
| Probe type             |                                                                                      | F                          | N                                         |
| Measurement range (um) |                                                                                      | 0-1500                     | 0-1500<br>Chromium plating on copper 0-40 |
| Resolution (um)        |                                                                                      | 0.1μm(0~99μm) , 1μm(>99μm) |                                           |
| Indication value       | One-point calibration (um)<br>(H is the actual thickness of the measurement object)  | ±(3%H+1)                   | ±(3%H+1.5)                                |
|                        | Two-points calibration (um)<br>(H is the actual thickness of the measurement object) | ±[(1-3)%H+1]               | ±[(1-3)%H+1.5]                            |
| Test conditions        | Minimum radius of curvature (mm)                                                     | Convex 3                   | Convex 3                                  |
|                        | Diameter of minimum area (mm)                                                        | Ø7                         |                                           |
|                        | Critical thickness of matrix (mm)                                                    | 0.5                        | 0.3                                       |

## Portable Coating Thickness Tester

### Features:

- Fast, non-destructive, precise measurement of various coating thicknesses.
- Measure thickness of non-magnetic coating layers covered on magnetic substrate. Such as: non-magnetic (aluminum, chrome, copper, enamel, paint) covered on magnetic substrate (steel, alloy and magnetic stainless steel), also can measure thickness of non-conductive coatings layers covered on conductive substrate. Such as: (enamel, rubber, paint, plastic) covered on conductive substrate (aluminum, brass, zinc and nonmagnetic stainless steel);
- Various probes optional, probe auto matching;
- Durable ruby probe, more wear and precise;
- Full metal shell design, sturdy, portable, high reliability;
- Alarm function when overrun the settable limiting range;
- Five statistics values [MEAN, MAX, MIN, NO., S.DEV] higher measurement accuracy;
- Large storage, easy to delete single or multiple saved values;
- PC software optional, convenient the data transmission, analysis, printing etc.



**MCT300**

### Technical Data

|                            |                                                         |
|----------------------------|---------------------------------------------------------|
| <b>Measuring Range</b>     | Standard 0~1250μm (MAX 10000μm with probe F10)          |
| <b>Resolution</b>          | 0.1μm/1μm                                               |
| <b>Accuracy</b>            | ±2%H+1μm Note: H is thickness reading                   |
| <b>Display</b>             | 128x64 LCD with backlight                               |
| <b>Memory</b>              | 5 files x 99 values                                     |
| <b>Working Temperature</b> | Operation Temp. :-10°C~50°C / Storage Temp. :-30°C~70°C |
| <b>Power</b>               | AA battery 2pcs (Non-aviation transport)                |
| <b>Size</b>                | 125x67x31mm                                             |

### Probe Option

| Probe        | Range      | Spec                                                                                                                                        |
|--------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>F1</b>    | 0-1250 um  | Measuring thickness of non-magnetic coating on magnetic substrate                                                                           |
| <b>N1</b>    | 0-1250 um  | Measuring thickness of non-conductive coatings on conductive substrate                                                                      |
| <b>F1/90</b> | 0-1250 um  | Use to measuring surface that can't be touch by ordinary probe, it can measure the thickness of non-magnetic coating on magnetic substrate. |
| <b>F10</b>   | 0-10000 um | Measuring thickness of non-magnetic coating on magnetic substrate                                                                           |

## Smart Series Leeb Hardness Tester

### Features:

- Use mobile phones to realize full-standard display, distributed storage, and automatic data upload.
- Support Android system smart phone.
- Sensor can be recognized automatically, plug and play without complicated process. Allowing data storage, query, and multi-platform sharing
- Super strong electromagnetic anti-interference ability is realized through full shielding technology, which is suitable for on-site hardness measurement.
- Convenient report generation and report printing



### Stand Accessories

- D type Impact device
- Data Cable
- Cleaning brush
- Software
- Small support ring
- 

|                     |                                                                                                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measuring Direction | Support 360° (vertical down, oblique down, horizontal, oblique up, vertical up)                                                                              |
| Hardness Unit       | HL, HB, HRB, HRC, HV, HS                                                                                                                                     |
| Hardness Range      | (170-960)HLD, (19-683)HB, (13.5-101.7)HRB, (17.9-69.5)HRC, (80-1042)HV, (30.6-102.6)HS                                                                       |
| Indication Error    | ± 6HLD (HLD=760 ± 30)                                                                                                                                        |
| Storage             | 100 groups                                                                                                                                                   |
| Materials           | Steel and cast steel, alloy tool steel, grey cast iron, ductile iron, cast aluminum alloy, copper zinc alloy (brass), copper tin alloy (bronze), pure copper |

### Optional Impact Device

| Application                                            | Impact Device | Code No. |
|--------------------------------------------------------|---------------|----------|
| Normal smooth, flat surface                            | D             | MHT20-D  |
| Hole or hollow cylindrical                             | DC            | MHT20-DC |
| Slender narrow groove or hole                          | DL            | MHT20-DL |
| Groove or re-entrant surface                           | DP            | MHT20-DP |
| Small ,light, thin parts and surface of hardened layer | C             | MHT20-C  |
| Large, thick, heavy and rough surface steel I          | G             | MHT20-G  |
| Suitable for high hardness material                    | E             | MHT20-E  |

## Smart Series Surface Roughness Tester

### Features:

- Use mobile phones to realize full-standard display, distributed storage, and automatic data upload.
- Support Android system smart phone.
- Sensor can be recognized automatically, plug and play without complicated process. Allowing data storage, query, and multi-platform sharing
- Compatible with ten standards including JIS-82, JIS-87, JIS-94, JIS-01, JIS-13, ISO-84, ISO-97, DIN-90, ASME-95, GB-14
- Convenient report generation and report printing



### Technical Data

|                |                 |                                                                                                                   |
|----------------|-----------------|-------------------------------------------------------------------------------------------------------------------|
| Measuring Rang | The Z axis      | ±100μm                                                                                                            |
|                | The X axis      | 17.5mm                                                                                                            |
| Sensor         | Stylus tip      | Diamond, 90 cone angle, 5μmR                                                                                      |
|                | Measuring Force | Measuring force<4mN                                                                                               |
|                | Measuring Speed | 0.5mm/s                                                                                                           |
|                | Return speed    | 1.0mm/s                                                                                                           |
| Tolerance      |                 | no more than ±10%                                                                                                 |
| Repeatability  |                 | no more than 6%                                                                                                   |
| Parameter      |                 | Ra Rz Rq Rt Rc Rp Rv R3z R3y Rz(JIS) Ry Rs Rsk Rku Rmax Rsm<br>Rmr R <sub>Pc</sub> Rk R <sub>pk</sub> Rvk Mr1 Mr2 |

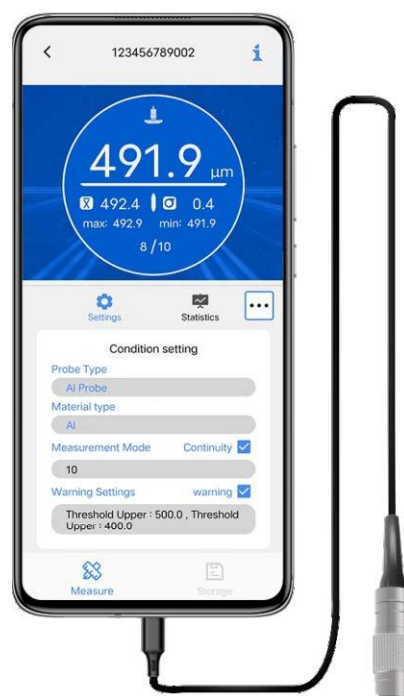
### Probe Option

| Probe |                        | Description                                                                                                                       |
|-------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| KS100 | Small hole sensor      | Measure most of the plane, inclined plane, cone surface, inner hole, groove and other surface roughness.                          |
| KS110 | Curved surface sensor  | Measure smooth cylindrical surface which radius which larger than 3mm                                                             |
| KS120 | Very small hole sensor | Measure inner surfaces of holes with radius more than 2mm.                                                                        |
| KS130 | Groove sensor          | Measure surface for groove with width ≥2.5mm, depth ≤3mm, and for steps with height ≤3mm                                          |
| KS131 | Deep groove sensor     | Measure groove which width wider than 3mm and depth deeper than 10mm, or the surface roughness of step with height less than 10mm |

## Smart Series Coating Thickness Gauge

### Features:

- Use mobile phones to realize full-standard display, distributed storage, and automatic data upload.
- Support Android system smart phone.
- Sensor can be recognized automatically, plug and play without complicated process. Allowing data storage, query, and multi-platform sharing
- Super strong electromagnetic anti-interference ability is realized through full shielding technology, which is suitable for on-site hardness measurement.
- Convenient report generation and report printing.



### Technical Data

| Working Principle      |                                                                                      | Magnetic indication        | Eddy currents                                |
|------------------------|--------------------------------------------------------------------------------------|----------------------------|----------------------------------------------|
| Probe type             |                                                                                      | F                          | N                                            |
| Measurement range (um) |                                                                                      | 0-1500                     | 0-1500<br>Chromium plating<br>on copper 0-40 |
| Resolution (um)        |                                                                                      | 0.1μm(0~99μm) , 1μm(>99μm) |                                              |
| Indication value       | One-point calibration (um)<br>(H is the actual thickness of the measurement object)  | ±(3%H+1)                   | ±(3%H+1.5)                                   |
|                        | Two-points calibration (um)<br>(H is the actual thickness of the measurement object) | ±[(1-3)%H+1]               | ±[(1-3)%H+1.5]                               |
| Test conditions        | Minimum radius of curvature (mm)                                                     | Convex 3                   | Convex 3                                     |
|                        | Diameter of minimum area (mm)                                                        | Ø7                         |                                              |
|                        | Critical thickness of matrix (mm)                                                    | 0.5                        | 0.3                                          |

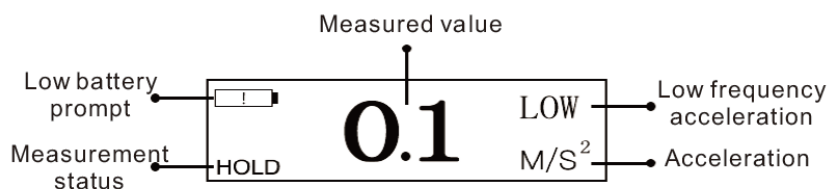
## Pen Type Vibration Tester

### Features:

- Dot matrix liquid crystal display, with AVD display function and high frequency acceleration display function. It can carry out simple fault Diagnosis
- Small size, solid shell, good electromagnetic anti-interference ability.
- Powered by two LR44 batteries, ultra-low power consumption
- Two keys to complete all operations, easy to understand



**MVT100**



### Technical Data

|                        |                                                                                   |                     |                                                                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measurement Parameters | High frequency acceleration, low frequency acceleration, velocity, displacement   | Measuring Range     | Acceleration: 0.1m/s <sup>2</sup> -290.0m/s <sup>2</sup> (peak value)<br>Velocity: 0.1mm/s-290.0mm/s(valid value)<br>Displacement: 0.001mm-2.900 mm (peak-peak value) |
| Measurement Error      | Accuracy: ±5% + 2 digits (% reading + digits),<br>Calibration period is one year; | Frequency Range     | Acceleration: 10Hz ~ 1kHz(LO)<br>1kHz ~ 15kHz(HI)<br>Velocity: 10Hz ~ 1kHz<br>Displacement: 10Hz ~ 500Hz                                                              |
| Display                | LCD display                                                                       | Working Environment | Temperature 0℃ ~ 40℃;<br>Relative humidity<85%                                                                                                                        |
| Battery                | 2pcs of LR44                                                                      |                     |                                                                                                                                                                       |
| Battery Life           | Continuous work for about 4 hours, intermittent use about 300 times               |                     |                                                                                                                                                                       |

## Standard Profile Projector

### Features:

MPR-3000/3000E series digital profile projector is an ergonomic and reliable measuring instrument with competitive price. This instrument, which equips with footswitch, integrates optics, machinery and electronics, is able to sufficiently carry out direct measurement and comparative measurement for measured workpiece, such as stamping parts, gear, thread, and milling cutter, etc. It is widely used in the fields of machine manufacturing, electronics, mold, meter, etc.



|                   |                       |                                             |                   |                 |
|-------------------|-----------------------|---------------------------------------------|-------------------|-----------------|
| Model             | Reverse Image         | MPW-3007                                    | MPW-3010          | MPW-3015        |
|                   | Erect Image           | MPW-3007E                                   | MPW-3010E         | MPW-3015E       |
| Worktable         | Metal table size (mm) | 260×152                                     | 306×152           | 340×152         |
|                   | Glass table size (mm) | 125×100                                     | 175×100           | 196×96          |
|                   | X-axis Travel (mm)    | 75                                          | 100               | 150             |
|                   | Y-axis Travel (mm)    | 50                                          | 50                | 50              |
|                   | Z-axis Travel (mm)    | 90 (Focusing)                               |                   |                 |
|                   | Resolution (μm)       | 0.5                                         |                   |                 |
|                   | Indication error (mm) | $E1XY=(2.5+L/100)$                          | $E1XY=(2.5+L/75)$ | $E1XY=(3+L/50)$ |
|                   | Dimension (mm)        | 770×550×1100                                | 770×550×1100      | 770×550×1100    |
|                   | Weight (kg)           | 120                                         | 125               | 130             |
| Projection Screen | Size (mm)             | Ø 312, operating range > Ø 300 (crosshairs) |                   |                 |
|                   | Rotary range          | 0~360°                                      |                   |                 |
|                   | Resolution            | 1' or 0.01°                                 |                   |                 |

|                                                      |                            |                                                          |                |                |                 |
|------------------------------------------------------|----------------------------|----------------------------------------------------------|----------------|----------------|-----------------|
| Lens                                                 | Magnification *            | 10× (Optional)                                           | 20× (Optional) | 50× (Optional) | 100× (Optional) |
|                                                      | Field of view (mm)         | Φ30                                                      | Φ15            | Φ6             | Φ3              |
|                                                      | Working distance (mm)      | 77.7                                                     | 44.3           | 38.4           | 25.3            |
|                                                      | Max. measuring height (mm) | 80                                                       | 80             | 80             | 80              |
| Optional Accessories                                 |                            | Printer, edge detector, Measuring software M2D-CPJ, etc. |                |                |                 |
| Power supply: AC 100-240V 50/60Hz. Total power: 400W |                            |                                                          |                |                |                 |

\* Select one of them as standard configuration

## High Precision Profile Projector

### Features:

MPW-3000P/PE series digital profile projector is an ergonomic and reliable measuring instrument with premium quality. This instrument is equipped with foot-switch and multi-functional data processing system, which is convenient to output data and sample, enabling the user to effectively and sufficiently inspect the measured objects. This instrument, which integrates optics, machinery and electronics, is able to sufficiently carry out direct measurement and comparative measurement for measured workpiece, such as stamping parts, gear, thread, and milling cutter, etc. It is widely used in the fields of machine manufacturing, electronics, mold, meter, etc.



| Model             | Reverse Image         | MPW-3015P                                   | MPW-3020P    | MPW-3025P    | MPW-3030P    | MPW-3040P     |
|-------------------|-----------------------|---------------------------------------------|--------------|--------------|--------------|---------------|
|                   | Erect Image           | MPW-3015PE                                  | MPW-3020PE   | MPW-3025PE   | MPW-3030PE   | MPW-3040PE    |
| Worktable         | Metal table size (mm) | 354×228                                     | 404×228      | 450×280      | 500×330      | 606×466       |
|                   | Glass table size (mm) | 210×160                                     | 260×160      | 306×196      | 321×221      | 450×350       |
|                   | X-axis Travel (mm)    | 150                                         | 200          | 250          | 295          | 400           |
|                   | Y-axis Travel (mm)    | 100                                         | 100          | 150          | 195          | 300           |
|                   | Z-axis Travel (mm)    | 100 (Focusing)                              |              |              |              |               |
|                   | Resolution (μm)       | 0.5                                         |              |              |              |               |
|                   | Accuracy (mm)         | $E_{1\lambda V}=(2.5+L/100)$                |              |              |              |               |
|                   | Dimension (mm)        | 780×780×1100                                | 780×780×1100 | 810×780×1120 | 900×780×1020 | 1040×780×1120 |
|                   | Weight (Kg)           | 160                                         | 160          | 180          | 250          | 250           |
| Projection screen | Size (mm)             | Ø 312, operating range > Ø 300 (crosshairs) |              |              |              |               |
|                   | Rotary range          | 0~360°                                      |              |              |              |               |
|                   | Resolution            | 1' or 0.01°                                 |              |              |              |               |

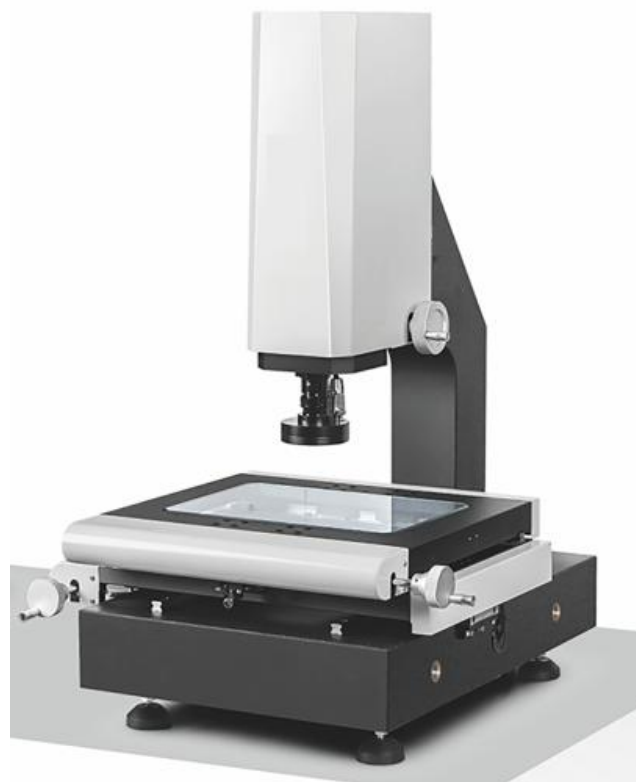
|                                                      |                            |                                                          |                |                |                 |
|------------------------------------------------------|----------------------------|----------------------------------------------------------|----------------|----------------|-----------------|
| Lens                                                 | Magnification *            | 10× (Optional)                                           | 20× (Optional) | 50× (Optional) | 100× (Optional) |
|                                                      | Field of view (mm)         | Φ30                                                      | Φ15            | Φ6             | Φ3              |
|                                                      | Working distance (mm)      | 77.7                                                     | 44.3           | 38.4           | 25.3            |
|                                                      | Max. measuring height (mm) | 90                                                       | 90             | 90             | 80              |
| Optional Accessories                                 |                            | Printer, edge detector, Measuring software M2D-CPJ, etc. |                |                |                 |
| Power supply: AC 100-240V 50/60Hz. Total power: 400W |                            |                                                          |                |                |                 |

\* Select one of them as standard configuration

## Optical Measuring Machine (Manual)

### Features:

- High precision marble base
- High precision linear guide way, provide unique dynamic performance and end user experience
- 6.5X Detented zoom lens, magnification 0.7x-4.5x
- 1.3M pixel digital camera
- Programmable 3-ring 8-division LED surface illumination
- Contour parallel LED illumination
- 0.5um high resolution linear scale
- Laser indicator navigator
- Powerful measuring software
- PC included
- Co-axial light and auto zoom lens are optional
- Compatible with Renishaw touch probe (optional). User can easily achieve 2D and 3D measuring function in one machine.



| Code                          |          | MMV2010                   | MMV3020     | MMV4030     | MMV5040     |
|-------------------------------|----------|---------------------------|-------------|-------------|-------------|
| X/Y/Z-axis Travel (mm)        |          | 200x100x200               | 300x200x200 | 400x300x200 | 500x400x200 |
| Accuracy (um)                 |          | 2.5+L/100                 | 2.5+L/100   | 2.5+L/100   | 3+L/100     |
| Repeatability                 |          | 2um                       |             |             |             |
| Scale Resolution              |          | 0.5 um                    |             |             |             |
| Optical System                | CCD      | 1.3M pixel digital camera |             |             |             |
|                               | Lens     | Magnification 0.7x-4.5x   |             |             |             |
|                               | FOV      | 8.1-1.3mm                 |             |             |             |
|                               | Distance | 90mm                      |             |             |             |
| Machine Dimension (LxWxH)(mm) |          | 550x540x830               | 600x740x890 | 700x840x890 | 800x940x890 |
| Machine Weight (kg)           |          | 140                       | 190         | 240         | 290         |

## Optical Measuring Machine (CNC)

### Features:

- High precision marble base
- High precision linear guide way, provide unique dynamic performance and end user experience
- Auto zoom lens 1-10x
- 2.0M pixel digital camera
- Programmable 5-ring 8-division LED surface illumination
- Contour parallel LED illumination
- 0.1um high resolution linear scale
- Laser indicator navigator
- Full CNC control with Joystick
- Powerful measuring software
- PC included
- Co-axial light and laser sensor are optional
- Compatible with Renishaw touch probe (optional) and MCR20 rack (optional). Provide powerful 2D and 3D measuring function.



| Code                          |          | MCV3020                 | MCV4030       | MCV5040        | MCV6050        |
|-------------------------------|----------|-------------------------|---------------|----------------|----------------|
| X/Y/Z-axis Travel (mm)        |          | 300x200x200             | 400x300x200   | 500x400x200    | 600x500x200    |
| Accuracy (um)                 |          | 2.5+L/100               |               |                |                |
| Repeatability                 |          | 2um                     |               |                |                |
| Scale Resolution              |          | 0.1 um                  |               |                |                |
| Optical System                | CCD      | 2M pixel digital camera |               |                |                |
|                               | Lens     | Magnification 1-10x     |               |                |                |
|                               | FOV      | 8.1-1.3mm               |               |                |                |
|                               | Distance | 82mm                    |               |                |                |
| Machine Dimension (LxWxH)(mm) |          | 1600x780x1700           | 1750x920x1700 | 1850x1180x1700 | 1950x1280x1700 |
| Machine Weight (kg)           |          | 320                     | 390           | 460            | 560            |

## Optical Measuring Machine (Gantry Type)

### Features:

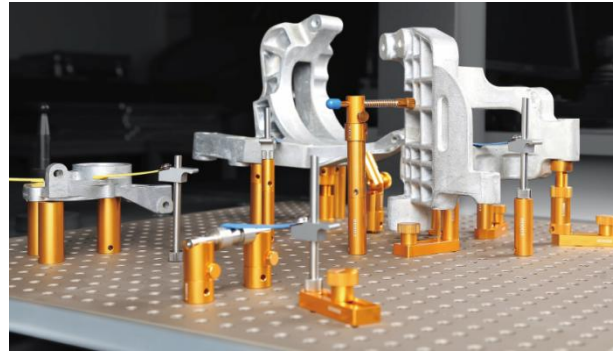
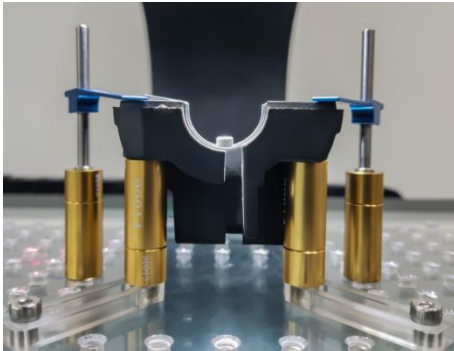
- High precision marble base
- High precision linear guide way, provide unique dynamic performance and end user experience
- Fully auto close loop control, auto measurement
- Auto zoom lens with co-axial light
- 2.0M pixel digital camera
- Programmable 5-ring 8-division LED surface illumination
- Contour parallel LED illumination
- 0.1um high resolution linear scale
- Laser indicator navigator
- Powerful measuring software
- PC included
- Laser sensor are optional
- Compatible with Renishaw touch probe (optional) and MCR20 rack (optional). Provide powerful 2D and 3D measuring function.



| Code                          |          | MGV6050                                  | MGV8060        | MGV1080        | MGV1210        |
|-------------------------------|----------|------------------------------------------|----------------|----------------|----------------|
| X/Y/Z-axis Travel (mm)        |          | 600x500x200                              | 800x600x200    | 1000x800x200   | 1200x1000x200  |
| Accuracy (um)                 |          | 2+L/200                                  |                |                |                |
| Repeatability                 |          | 2um                                      |                |                |                |
| Scale Resolution              |          | 0.1 um                                   |                |                |                |
| Optical System                | CCD      | 2M pixel digital camera                  |                |                |                |
|                               | Lens     | Auto zoom lens 1-10x with co-axial light |                |                |                |
|                               | FOV      | 8.1-1.3mm                                |                |                |                |
|                               | Distance | 82mm                                     |                |                |                |
| Machine Dimension (LxWxH)(mm) |          | 1700x1180x1750                           | 1700x1280x1750 | 1900x1480x1750 | 2100x1680x1750 |
| Machine Weight (kg)           |          | 1500                                     | 1800           | 2900           | 3200           |

## Accessories for Measuring Machine

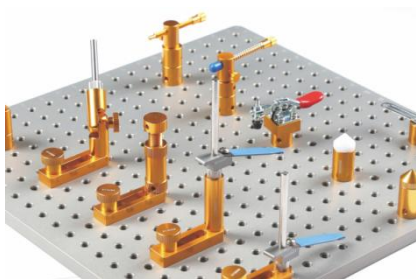
The measurement machine application is always coming with varies of different shapes or materials. Some are even without any effective plate to be correctly located on the work stage. Developing specific fixtures for each component should be with low efficiency and high cost. This new develop fixture kits should be able to help customers save time and cost, also achieve fast and reliable fixturing during measuring process, improve the throughput, reproducibility and accuracy of the inspection process with quick and repeatable fixturing setups.



### Fixture kits

These kits include supporting, pressing, and holding components, which allow the user to manage the fixturing easily and no special tools are required. Regardless of the shapes or materials, user can easily find the fixturing solution during measuring process.

All components are made by precision manufacturing process and with anodize coating. Each part is with laser marking coding. So all the combination of the components can be repeatable for the subsequent inspections, which helps to eliminate the variation of different parts or operators, and increasing the measuring accuracy and repeatability.



## Base Plate

Special designed base plate for fixture kit. An L shape magnetic fast mounting corner is available. User only needs to place and measure, which largely increase the measuring efficiency.

### ● Fixture Kit for CMM

|            |                |
|------------|----------------|
| 60pcs set  | <b>FKC-060</b> |
| 108pcs set | <b>FKC-108</b> |

### Base plate for CMM

Made by Aluminum, with M8 thread hole

|           |                 |
|-----------|-----------------|
| 300*300mm | <b>FBC-3030</b> |
| 400*300mm | <b>FBC-4030</b> |
| 400*400mm | <b>FBC-4040</b> |
| 500*500mm | <b>FBC-5050</b> |
| 600*600mm | <b>FBC-6060</b> |



### ● Fixture Kit for VMM

|            |                |
|------------|----------------|
| 112pcs set | <b>FKV-112</b> |
|------------|----------------|

### Base plate for VMM

Made by acrylic material with high transmittance and flatness, which can ensure the straight light path from the contour light, keeping the original measuring accuracy of the machine

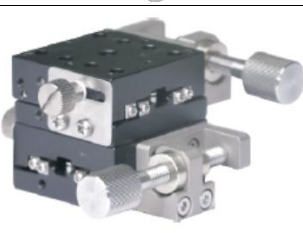
Metal M4 screw inserts are mounted in the base plate, the components can be firmly fixed and highly increase the life cycle of the base plate.

|           |                 |
|-----------|-----------------|
| 300*200mm | <b>FBV-3020</b> |
| 400*300mm | <b>FBV-4030</b> |
| 600*500mm | <b>FBV-6050</b> |



## Multi-Axis Stages

Stage with micrometer head capable of 0.01mm resolution adjustment. Aluminum alloy material with black anodizing or Nickel plating surface treatment.

|                                                                                     |                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>Manual X-Axis Stages - Linear Ball Guide</b>                                                                                                                                      |
|    | <b>Manual X-Axis Stages - Cross Roller Guide</b><br><br>Lightweight and High Precision Cross Roller Stages made of aluminum alloy, black anodizing surface treatment.                |
|   | <b>Manual XY-Axis Stages - Cross Roller Guide</b><br><br>Stage with a micrometer head capable of 0.01mm resolution adjustment, black anodizing surface treatment.                    |
|  | <b>Manual XY-Axis Stages - Cross Roller Guide, Low Profile</b><br><br>Thin Stage with a micrometer head capable of 0.01mm resolution adjustments, black anodizing surface treatment. |
|  | <b>Manual Z-Axis Stages - Linear Ball Guide</b><br><br>Stage with a micrometer head capable of 0.01mm resolution adjustments, Nickel plating surface treatment.                      |
|  | <b>Manual Z-Axis Stages - Cross Roller Guide</b><br><br>Stage with a micrometer head capable of 0.01mm resolution adjustments, black anodizing surface treatment.                    |

|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <p><b>Manual Horizontal Z-Axis Stages - Cross Roller Guide</b></p> <p>Stages suitable for highly accurate and fine adjustment of horizontal surface of Z-axis, black anodizing surface treatment.</p>                                                                                                                                                                                                    |
|    | <p><b>Manual XYZ-Axis Stages - Linear Ball Guide</b></p> <p>Stage with a micrometer head capable of 0.01mm resolution adjustments. Nickel plating surface treatment</p>                                                                                                                                                                                                                                  |
|    | <p><b>Manual XYZ-Axis Stages - Cross Roller Guide</b></p> <p>Stage with a micrometer head capable of 0.01mm resolution adjustments, black anodizing surface treatment.</p>                                                                                                                                                                                                                               |
|   | <p><b>Manual Rotary Stages - Fitted Joint, Micrometer Head</b></p> <p>Rotating stage that allows feeding by coarse and fine movement. Coarse 360° rotation is possible by gripping the table. By clamping both the coarse and fine movements, it can be fixed at an arbitrary position.· Can be widely used for applications requiring the precise positioning of cameras, sensors, and other items.</p> |
|  | <p><b>Manual Rotary Stages - Cross Roller Bearing, Through Hole</b></p> <p>There is a through hole in the center of the stage allowing passages of laser, wiring and etc., black anodizing surface treatment.</p>                                                                                                                                                                                        |
|  | <p><b>Manual Multi-Axis Stages - High Accuracy, Cross Roller Guide, Aluminum Alloy</b></p> <p>Combined Stages made of lightweight aluminum alloy. A stage unit that enables a variety of movements by combining manual stages. Available in combination according to size. Can reduce the stage selection and assembly labor-hours for each axis</p>                                                     |



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