

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-54151736  
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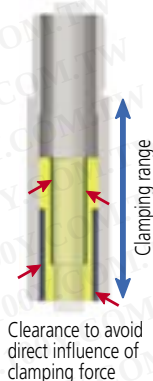
## New Products



# Dial Indicator

## FEATURES: S Series

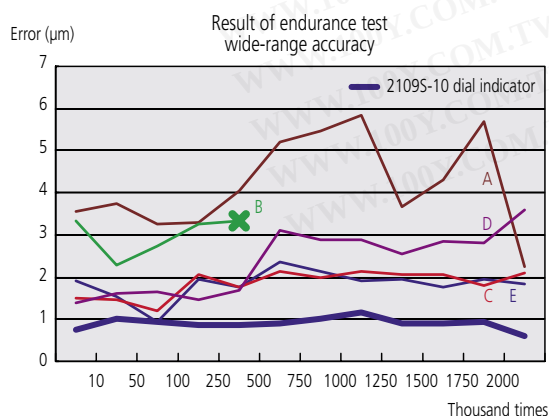
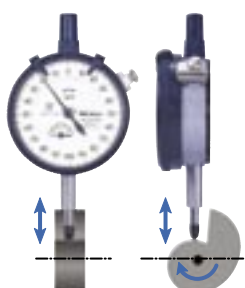
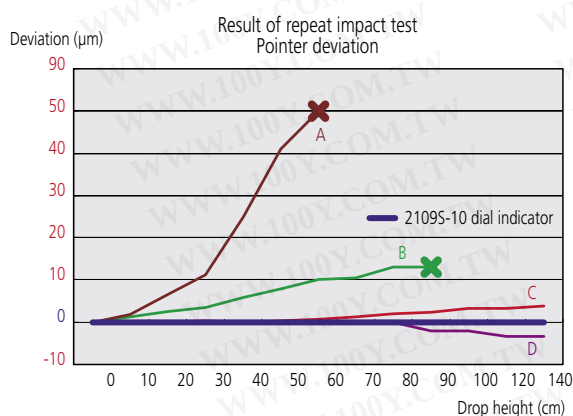
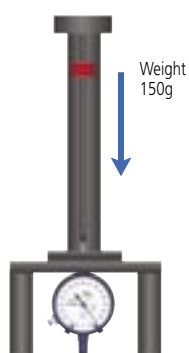
- Revolutionary stem-bush design for trouble free stem clamping (longer clamping range).
- No through screw-hole on the frame for high dust-resistance.



- Involute curved lifting lever for smooth movement of spindle and dovetail joint for tool-less connection.
- Greater rigidity in the bearing plate for reducing the retracing error (20%) and 4-screw mounting for increasing impact resistance.



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## Description of Icon

| Icon | Description                                                   |
|------|---------------------------------------------------------------|
|      | Reverse reading type suitable for depth and step measurement. |
|      | One revolution type for easy and error-free reading           |
|      | Double scale spacing type, easy-on-the-eyes                   |
|      | Shockproof type                                               |
|      | Waterproof type                                               |
|      | With damper at lowest rest point                              |
|      | Jeweled bearing type                                          |
|      | Peak retaining type                                           |
|      | Long stem type                                                |
|      | Dustproof type                                                |
|      | With coaxial revolution counter                               |
|      | Back plunger type                                             |
|      | Adjustable hand type                                          |
|      | Double-face type                                              |

# Dial Indicator

## SERIES 1 — Compact One Revolution Type for Error-free Reading



One revolution type

Unlike many other dial indicators, the one-revolution dial indicator literally shows the entire spindle travel or range as one sweep of the hand, eliminating the possibility of reading errors due to miscounting the multiple revolutions. With one-revolution dial indicators, "within tolerance" and "out-of-tolerance" can never misinterpreted. An unique shock-proof mechanism is incorporated, providing improved immunity to shock due to sudden spindle retraction caused by high impact.

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1929F  
 1929F-60  
 1929F-62



1900F  
 1900F-60  
 1900F-62



1929F-62



Shockproof type



Dustproof type



Waterproof type



Jeweled bearing type

### SPECIFICATIONS

#### Metric

ISO/JIS type

| Graduation | Order No. |           | Range (range/full stroke) | Accuracy | Dial reading | Measuring force | Shockproof type | Dustproof type | Waterproof type | Jeweled bearing type | — |
|------------|-----------|-----------|---------------------------|----------|--------------|-----------------|-----------------|----------------|-----------------|----------------------|---|
|            | w/ lug    | Flat-back |                           |          |              |                 |                 |                |                 |                      |   |
| 0.01mm     | 1929F     | 1929FB    | 1mm / 1.4mm               | ±11μm    | 50-0-50      | 1.4N or less    | ✓               | —              | —               | —                    | — |
| 0.01mm     | 1929F-60  | 1929FB-60 | 1mm / 1.4mm               | ±11μm    | 50-0-50      | 1.4N or less    | ✓               | —              | ✓               | —                    | — |
| 0.01mm     | 1929F-62  | 1929FB-62 | 1mm / 1.4mm               | ±11μm    | 50-0-50      | 1.4N or less    | ✓               | ✓              | —               | —                    | — |
| 0.001mm    | 1900F     | 1900FB    | 0.1mm / 0.14mm            | ±6μm     | 50-0-50      | 1.5N or less    | ✓               | —              | —               | ✓                    | — |
| 0.001mm    | 1900F-60  | 1900FB-60 | 0.1mm / 0.14mm            | ±6μm     | 50-0-50      | 1.5N or less    | ✓               | —              | ✓               | ✓                    | — |
| 0.001mm    | 1900F-62  | 1900FB-62 | 0.1mm / 0.14mm            | ±6μm     | 50-0-50      | 1.5N or less    | ✓               | ✓              | —               | ✓                    | — |
| 0.01mm     | 1960*     | —         | 1mm / 1.27mm              | ±14μm    | 50-0-50      | 1.4N or less    | ✓               | —              | —               | —                    | — |

#### Inch

ANSI/AGD type

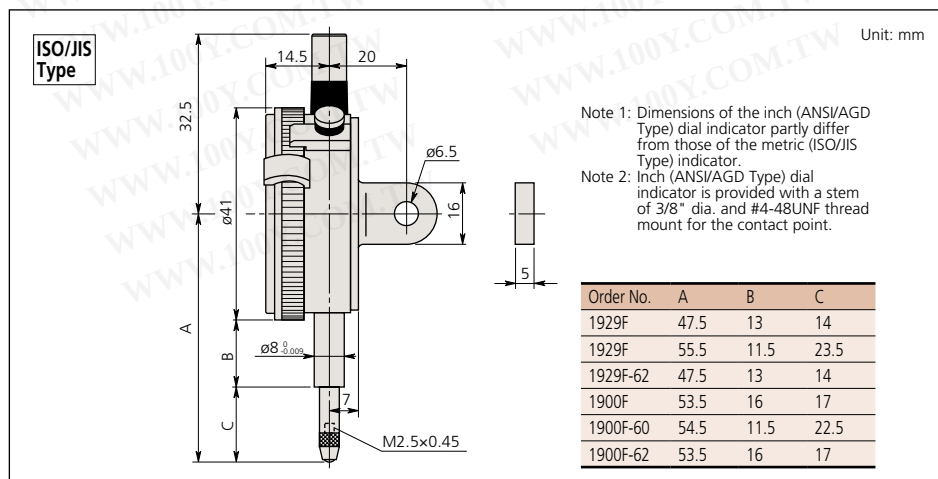
| Graduation | Order No. |           | Range (range/full stroke) | Accuracy | Dial reading | Measuring force | Shockproof type | Dustproof type | Waterproof type | Jeweled bearing type | — |
|------------|-----------|-----------|---------------------------|----------|--------------|-----------------|-----------------|----------------|-----------------|----------------------|---|
|            | w/ lug    | Flat-back |                           |          |              |                 |                 |                |                 |                      |   |
| .0005"     | 1909F-62  | 1909FB-62 | .04" / .055"              | ±.0005"  | 20-0-20      | 1.4N or less    | ✓               | ✓              | —               | —                    | — |
| .0001"     | 1910F-72  | 1910FB-72 | .006" / .0079"            | ±.0001"  | 3-0-3        | 1.4N or less    | ✓               | ✓              | —               | —                    | — |
| .001"      | 1961*     | —         | .04" / .05"               | ±.001"   | 20-0-20      | 1.4N or less    | ✓               | —              | —               | —                    | — |

\*Back plunger type (see page 262.)

### Optional Accessory

- : Backs (See page 266.)
- : Contact points (See page 264.)

### DIMENSION



# Dial Indicator

## SERIES 1 — Compact Type

Mitutoyo's Series 1 dial indicators offer the accuracy and durability for shop applications demanding highly accurate measurements where space is limited. The spindle is made of hardened stainless steel for durability, while the rack gear is machine ground for a tighter fit and increased accuracy.

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1911



1003



1040F



1044F-60



1013F



(Refer to the page 9 for details.)



1911



1913-10



1003

### Optional Accessory

- Backs (See page 266.)
- Contact points (See page 264.)



Double scale spacing  
type



Jeweled bearing type



Waterproof type

## SPECIFICATIONS

### Metric

ISO/JIS type

| Graduation | Order No. |           | Range<br>(range/rev) | Accuracy | Dial<br>reading | Measuring<br>force |   |   |   |   |   |   |
|------------|-----------|-----------|----------------------|----------|-----------------|--------------------|---|---|---|---|---|---|
|            | w/ lug    | Flat-back |                      |          |                 |                    |   |   |   |   |   |   |
| 0.01mm     | 1911      | 1911B     | 2.5mm (1mm)          | ±12μm    | 0-50-0          | 1.4N or less       | — | — | — | — | — | — |
| 0.002mm    | 1913-10   | 1913B-10  | 0.5mm (0.2mm)        | ±8μm     | 0-100-0         | 1.5N or less       | — | ✓ | — | — | — | — |
| 0.01mm     | 1040F     | 1040FB    | 3.5mm (0.5mm)        | ±13μm    | 0-50            | 1.4N or less       | ✓ | — | — | — | — | — |
| 0.01mm     | 1041F     | 1041FB    | 3.5mm (0.5mm)        | ±13μm    | 0-25-0          | 1.4N or less       | ✓ | — | — | — | — | — |
| 0.01mm     | 1003      | 1003B     | 4mm (1mm)            | ±13μm    | 0-50-0          | 1.4N or less       | — | — | — | — | — | — |
| 0.01mm     | 1044F     | 1044FB    | 5mm (1mm)            | ±13μm    | 0-100           | 1.4N or less       | — | — | — | — | — | — |
| 0.01mm     | 1044F-10  | 1044FB-10 | 5mm (1mm)            | ±13μm    | 0-100           | 0.4N or less*      | — | ✓ | — | — | — | — |
| 0.01mm     | 1044F-60  | 1044FB-60 | 5mm (1mm)            | ±13μm    | 0-100           | 2.0N or less       | — | — | ✓ | — | — | — |
| 0.01mm     | 1045F     | 1045FB    | 5mm (1mm)            | ±13μm    | 0-50-0          | 1.4N or less       | — | — | — | — | — | — |
| 0.005mm    | 1124F     | 1124FB    | 3.5mm (0.5mm)        | ±13μm    | 0-50            | 1.4N or less       | — | ✓ | — | — | — | — |
| 0.002mm    | 1013F     | 1013FB    | 1mm (0.2mm)          | ±10μm    | 0-100-0         | 1.5N or less       | — | ✓ | — | — | — | — |
| 0.001mm    | 1109F     | 1109FB    | 1mm (0.2mm)          | ±7μm     | 0-100-0         | 1.5N or less       | — | ✓ | — | — | — | — |

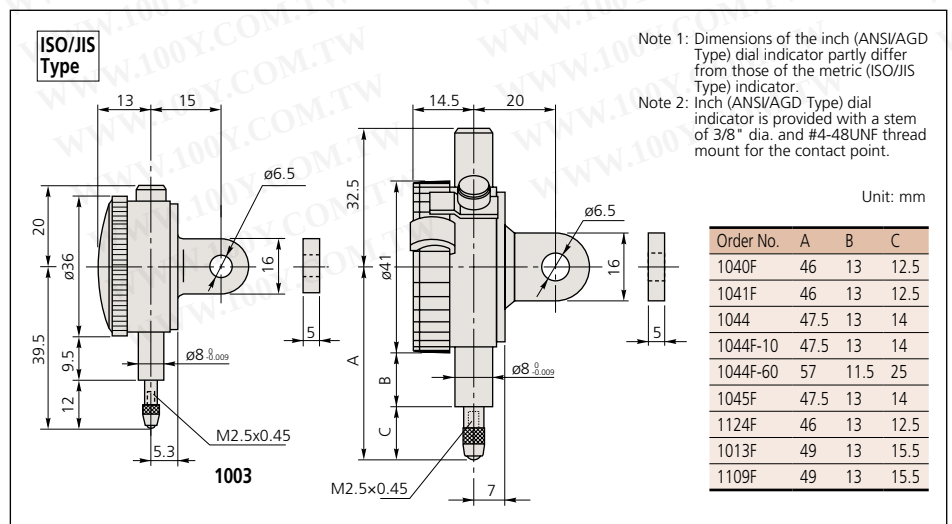
\*Use in a vertical position only (contact point downward).

### Inch

ANSI/AGD type

| Graduation | Order No. |           | Range<br>(range/rev) | Accuracy | Dial<br>reading | Measuring<br>force |   |   |   |   |   |   |
|------------|-----------|-----------|----------------------|----------|-----------------|--------------------|---|---|---|---|---|---|
|            | w/ lug    | Flat-back |                      |          |                 |                    |   |   |   |   |   |   |
| .001"      | 1921      | 1921B     | .1" (.04")           | ±.001"   | 0-20-0          | 1.8N or less       | — | — | — | — | — | — |
| .0005"     | 1923      | 1923B     | .05" (.02")          | ±.0005"  | 0-10-0          | 1.8N or less       | — | ✓ | — | — | — | — |
| .0001"     | 1927-10   | 1927B-10  | .01" (.004")         | ±.0002"  | 0-2-0           | 1.8N or less       | — | ✓ | — | — | — | — |
| .0001"     | 1925-10   | 1925B-10  | .025" (.01")         | ±.0002"  | 0-5-0           | 1.8N or less       | — | ✓ | — | — | — | — |
| .001"      | 1580F-10  | 1580FB-10 | .075" (.03")         | ±.0005"  | 0-30            | 1.4N or less       | — | ✓ | — | — | — | — |
| .001"      | 1581F-10  | 1581FB-10 | .075" (.03")         | ±.0005"  | 0-15-0          | 1.4N or less       | — | ✓ | — | — | — | — |
| .001"      | 1780F     | 1780FB    | .125" (.05")         | ±.001"   | 0-50            | 1.4N or less       | — | — | — | — | — | — |
| .001"      | 1781F     | 1781FB    | .125" (.05")         | ±.001"   | 0-25-0          | 1.4N or less       | — | — | — | — | — | — |
| .001"      | 1410F     | 1410FB    | .25" (.1")           | ±.001"   | 0-100           | 1.4N or less       | — | — | — | — | — | — |
| .001"      | 1410F-10  | 1410FB-10 | .25" (.1")           | ±.001"   | 0-100           | 1.4N or less       | — | ✓ | — | — | — | — |
| .001"      | 1411F     | 1411FB    | .25" (.1")           | ±.001"   | 0-50-0          | 1.4N or less       | — | — | — | — | — | — |
| .0005"     | 1570F-10  | 1570FB-10 | .075" (.03")         | ±.0005"  | 0-30            | 1.4N or less       | — | ✓ | — | — | — | — |
| .0005"     | 1571F-10  | 1571FB-10 | .075" (.03")         | ±.0005"  | 0-15-0          | 1.4N or less       | — | ✓ | — | — | — | — |
| .0005"     | 1670F     | 1670FB    | .1" (.04")           | ±.0005"  | 0-40            | 1.4N or less       | — | — | — | — | — | — |
| .0005"     | 1671F     | 1671FB    | .1" (.04")           | ±.0005"  | 0-20-0          | 1.4N or less       | — | — | — | — | — | — |
| .0005"     | 1506F     | 1506FB    | .125" (.05")         | ±.0005"  | 0-50            | 1.4N or less       | — | — | — | — | — | — |
| .0005"     | 1507F     | 1507FB    | .125" (.05")         | ±.0005"  | 0-25-0          | 1.4N or less       | — | — | — | — | — | — |
| .00025"    | 1470F     | 1470FB    | .05" (.02")          | ±.00025" | 0-20            | 1.4N or less       | — | — | — | — | — | — |
| .00025"    | 1471F     | 1471FB    | .05" (.02")          | ±.00025" | 0-10-0          | 1.4N or less       | — | — | — | — | — | — |
| .00025"    | 1476F     | 1476FB    | .2" (.02")           | ±.00025" | 0-20            | 1.4N or less       | — | — | — | — | — | — |
| .0001"     | 1802F-10  | 1802FB-10 | .025" (.01")         | ±.0001"  | 0-10            | 1.4N or less       | — | ✓ | — | — | — | — |
| .0001"     | 1803F-10  | 1803FB-10 | .025" (.01")         | ±.0001"  | 0-5-0           | 1.4N or less       | — | ✓ | — | — | — | — |

## DIMENSION



# Dial Indicator

## SERIES 2 — Standard Type, 0.01mm Resolution

Series 2 dial indicators are Mitutoyo's most popular, and have the widest application.

### FEATURES

- Standard 0.01mm graduation dial gauges having an outer frame with an outside diameter of 57mm. All types come with limit pins and an outer frame clamp as standard.
- The outer clamp and lifting lever (optional) can be attached to either the right or left side. These parts can be easily installed and removed without tools.
- Secured adhesion between the outer frame and crystal as well as the use of an O-ring ensure countermeasures against water and oil permeation via the front face.
- The stem spindle is made of high-strength quench-hardened stainless steel which resists strenuous use.
- A carbide contact point is used.
- The grand gear uses stainless steel that is resistant to wear and deformation.
- Application of a hard coating on the surface of the crystal makes the gauge highly scratch- and chemical-resistant.



(Refer to the page 9 for details.)



20465  
20465H  
20465-09  
20465-15  
20465-80  
20465LB

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20465



20465-60



20465Y



20465-60  
20465-69



20475



Shockproof type



Waterproof type



Long stem type



Jeweled bearing type



w/coaxial revolution counter



Reverse reading type

## SPECIFICATIONS

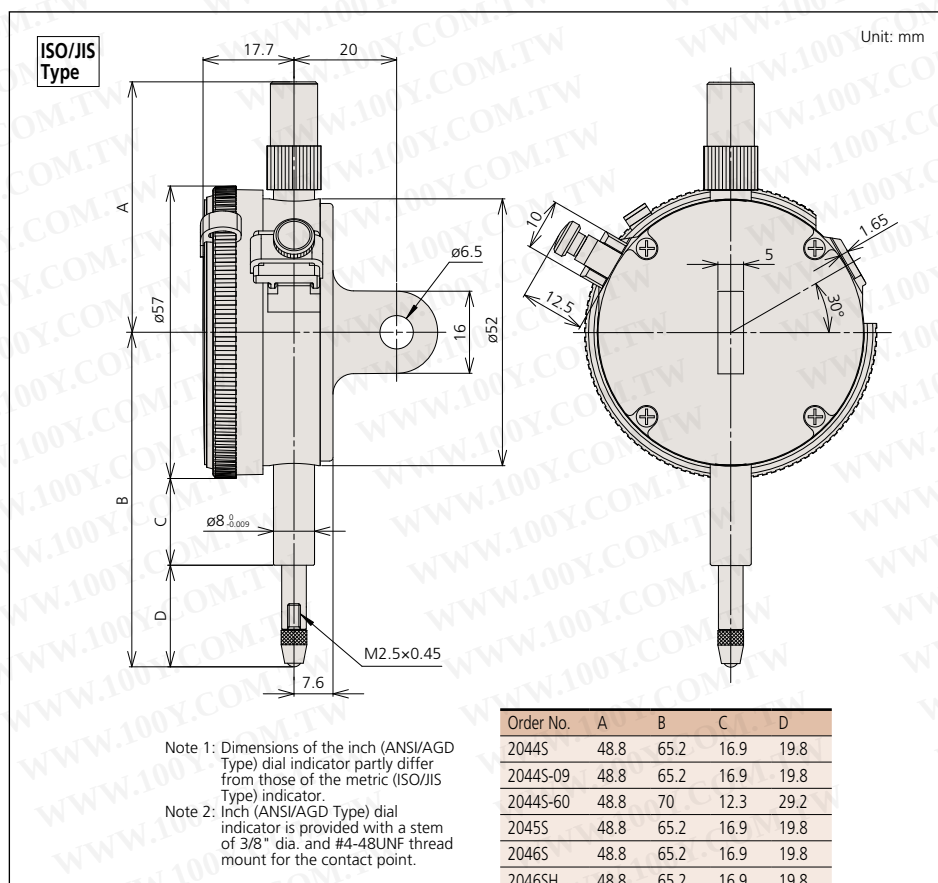
## Metric

ISO/JIS type

| Graduation | Order No.<br>w/ lug | Order No.<br>Flat-back | Range<br>(range/rev) | Accuracy | Dial<br>reading | Measuring<br>force | Shockproof type | Waterproof type | Long stem type | Jeweled bearing type | w/coaxial revolution counter | Reverse reading type |
|------------|---------------------|------------------------|----------------------|----------|-----------------|--------------------|-----------------|-----------------|----------------|----------------------|------------------------------|----------------------|
| 0.01mm     | 2044S               | 2044SB                 | 5mm (1mm)            | ±12μm    | 0-100           | 1.4N or less       | —               | —               | —              | —                    | —                            | —                    |
| 0.01mm     | 2044S-09            | 2044SB-09              | 5mm (1mm)            | ±13μm    | 0-100           | 1.4N or less       | ✓               | —               | —              | —                    | —                            | —                    |
| 0.01mm     | 2044S-60            | 2044SB-60              | 5mm (1mm)            | ±12μm    | 0-100           | 2.5N or less       | —               | ✓               | —              | —                    | —                            | —                    |
| 0.01mm     | 2045S               | 2045SB                 | 5mm (1mm)            | ±12μm    | 0-50-0          | 1.4N or less       | —               | —               | —              | —                    | —                            | —                    |
| 0.01mm     | 2046S               | 2046SB                 | 10mm (1mm)           | ±13μm    | 0-100           | 1.4N or less       | —               | —               | —              | —                    | —                            | —                    |
| 0.01mm     | 2046SH              | 2046SHB                | 10mm (1mm)           | ±13μm    | 0-100           | 1.4N or less       | —               | —               | —              | —                    | —                            | —                    |
| 0.01mm     | 2046SH              | 2046SHB                | 10mm (1mm)           | ±8μm     | 0-100           | 1.4N or less       | —               | —               | —              | —                    | —                            | —                    |
| 0.01mm     | —                   | 2046SLB                | 10mm (1mm)           | ±13μm    | 0-100           | 1.4N or less       | —               | —               | ✓              | —                    | —                            | —                    |
| 0.01mm     | 2046S-09            | 2046SB-09              | 10mm (1mm)           | ±15μm    | 0-100           | 1.4N or less       | ✓               | —               | —              | —                    | —                            | —                    |
| 0.01mm     | 2046S-60            | 2046SB-60              | 10mm (1mm)           | ±13μm    | 0-100           | 2.5N or less       | —               | ✓               | —              | —                    | —                            | —                    |
| 0.01mm     | 2046S-69            | 2046SB-69              | 10mm (1mm)           | ±15μm    | 0-100           | 2.5N or less       | ✓               | ✓               | —              | —                    | —                            | —                    |
| 0.01mm     | 2046S-15            | 2046SB-15              | 10mm (1mm)           | ±13μm    | 0-100           | 0.8N or less*      | —               | —               | —              | ✓                    | —                            | —                    |
| 0.01mm     | 2310S-10            | 2310SB-10              | 10mm (1mm)           | ±15μm    | 0-100           | 1.4N or less       | —               | —               | —              | ✓                    | ✓                            | —                    |
| 0.01mm     | 2902S               | 2902SB                 | 10mm (1mm)           | ±13μm    | 100-0           | 1.4N or less       | —               | —               | —              | —                    | —                            | ✓                    |
| 0.01mm     | 2047S               | 2047SB                 | 10mm (1mm)           | ±13μm    | 0-50-0          | 1.4N or less       | —               | —               | —              | —                    | —                            | —                    |

\*Use in a vertical position only (contact point downward).

## DIMENSION



| Order No. | A    | B    | C    | D    |
|-----------|------|------|------|------|
| 2044S     | 48.8 | 65.2 | 16.9 | 19.8 |
| 2044S-09  | 48.8 | 65.2 | 16.9 | 19.8 |
| 2044S-60  | 48.8 | 70   | 12.3 | 29.2 |
| 2045S     | 48.8 | 65.2 | 16.9 | 19.8 |
| 2046S     | 48.8 | 65.2 | 16.9 | 19.8 |
| 2046SH    | 48.8 | 65.2 | 16.9 | 19.8 |
| 2046SLB   | 48.8 | 85.2 | 36.9 | 19.8 |
| 2046S-09  | 48.8 | 65.2 | 16.9 | 19.8 |
| 2046S-60  | 48.8 | 70   | 12.3 | 29.2 |
| 2046S-69  | 48.8 | 70   | 12.3 | 29.2 |
| 2046S-15  | 48.8 | 65.2 | 16.9 | 19.8 |
| 2310S-10  | 48.8 | 65.2 | 16.9 | 19.8 |
| 2902S     | 48.8 | 65.2 | 16.9 | 19.8 |
| 2047S     | 48.8 | 65.2 | 16.9 | 19.8 |

## Optional Accessory

- : Backs (See page 266.)
- : Contact points (See page 264.)

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# Dial Indicator

## SERIES 2 — Standard Type, 0.001mm Resolution

### FEATURES

- Standard 0.01mm graduation dial gauges having an outer frame with an outside diameter of  $\varnothing 57\text{mm}$ . All types come with limit pins and an outer frame clamp.
- The outer clamp and lifting lever (optional) can be attached to either the right or left side. These parts can be easily installed and removed without tools.
- Secured adhesion between the outer frame and crystal as well as the use of an O-ring ensure countermeasures against water and oil permeation via the front face.
- The stem spindle is made of high-strength quench-hardened stainless steel which resists strenuous use.
- A carbide contact point is used.
- The grand gear uses stainless steel that is resistant to wear and deformation.
- Application of a hard coating on the surface of the crystal makes the gauge highly scratch- and chemical-resistant.
- A special alloy is used for the sector gears to provide improved wear resistance.
- The bearing part uses jeweled bearings, providing excellent indication sensitivity and durability.



(Refer to the page 9 for details.)



2109S-10



2110S-10



2119S-10



2109S-10  
2109SH-10  
2109S-70  
2109SLB-10



2110S-10  
2110S-70



2113S-10

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Shockproof type



Waterproof type



Long stem type



Jeweled bearing type



Double scale spacing type

## SPECIFICATIONS

## Metric

ISO/JIS type

| Graduation | Order No.<br>w/ lug | Flat-back  | Range<br>(range/rev) | Accuracy            | Dial<br>reading | Measuring<br>force | Shockproof type | Waterproof type | Long stem type | Jeweled bearing type | Double scale spacing type |
|------------|---------------------|------------|----------------------|---------------------|-----------------|--------------------|-----------------|-----------------|----------------|----------------------|---------------------------|
| 0.005mm    | 2124S-10            | 2124SB-10  | 5mm (0.5mm)          | $\pm 12\mu\text{m}$ | 0-50            | 1.5N or less       | —               | —               | —              | ✓                    | —                         |
| 0.001mm    | 2110S-10            | 2110SB-10  | 1mm (0.1mm)          | $\pm 5\mu\text{m}$  | 0-100           | 1.5N or less       | ✓               | —               | —              | ✓                    | —                         |
| 0.001mm    | 2110S-70            | 2110SB-70  | 1mm (0.1mm)          | $\pm 5\mu\text{m}$  | 0-100           | 2.0N or less       | ✓               | ✓               | —              | ✓                    | —                         |
| 0.001mm    | 2109S-10            | 2109SB-10  | 1mm (0.2mm)          | $\pm 5\mu\text{m}$  | 0-100-0         | 1.5N or less       | ✓               | —               | —              | ✓                    | —                         |
| 0.001mm    | 2109SH-10           | 2109SHB-10 | 1mm (0.2mm)          | $\pm 3\mu\text{m}$  | 0-100-0         | 1.5N or less       | ✓               | —               | —              | ✓                    | —                         |
| 0.001mm    | —                   | 2109SLB-10 | 1mm (0.2mm)          | $\pm 5\mu\text{m}$  | 0-100-0         | 1.5N or less       | ✓               | —               | ✓              | ✓                    | —                         |
| 0.001mm    | 2109S-70            | 2109SB-70  | 1mm (0.2mm)          | $\pm 5\mu\text{m}$  | 0-100-0         | 2.0N or less       | ✓               | ✓               | —              | ✓                    | —                         |
| 0.001mm    | 2113S-10            | 2113SB-10  | 2mm (0.2mm)          | $\pm 7\mu\text{m}$  | 0-100-0         | 1.5N or less       | ✓               | —               | —              | ✓                    | —                         |
| 0.001mm    | 2118S-10            | 2118SB-10  | 5mm (0.2mm)          | $\pm 10\mu\text{m}$ | 0-100-100       | 1.5N or less       | —               | —               | —              | ✓                    | —                         |
| 0.001mm    | 2119S-10            | 2119SB-10  | 5mm (0.2mm)          | $\pm 10\mu\text{m}$ | 0-100-0         | 1.5N or less       | —               | —               | —              | ✓                    | —                         |



2118S-10



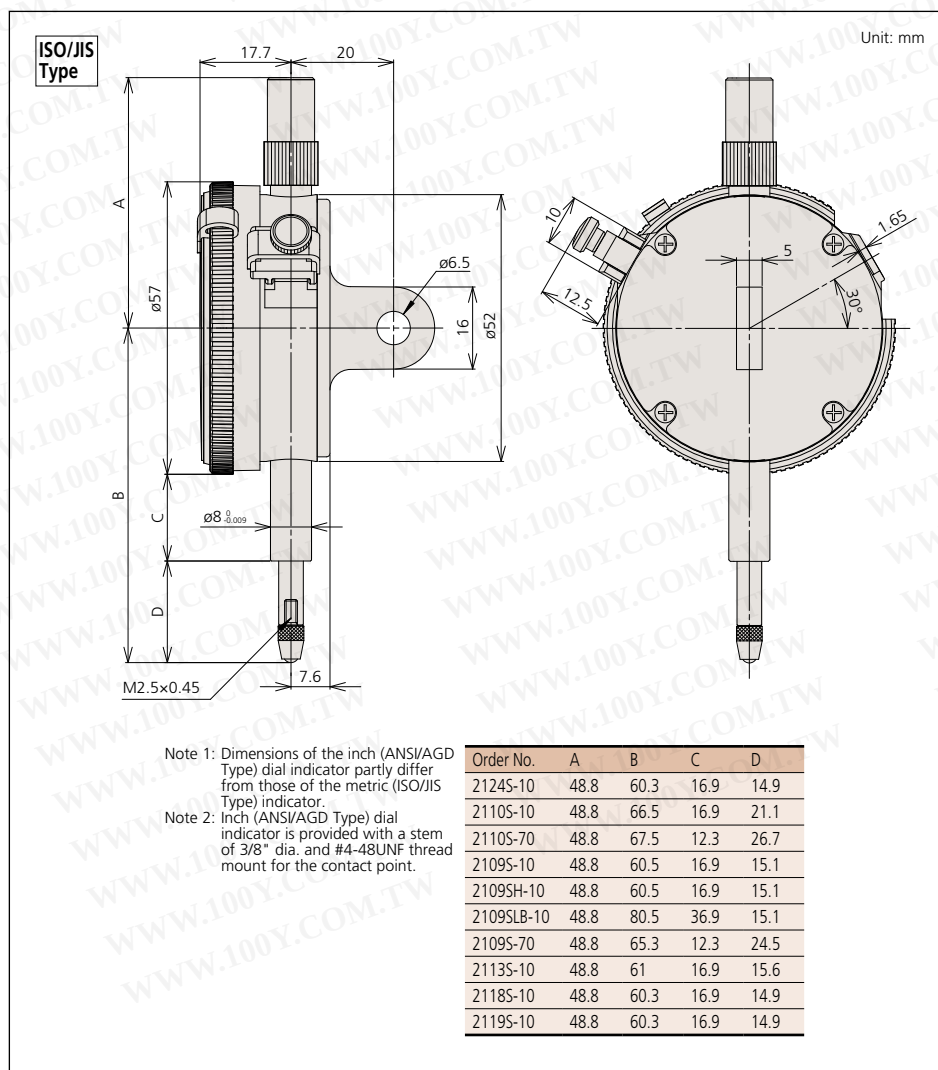
2119S-10



2124S-10

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## DIMENSION



## Optional Accessory

- : Backs (See page 266.)
- : Contact points (See page 264.)

# Dial Indicator

## SERIES 2 — Standard Type, Inch Reading

### SPECIFICATIONS

| Graduation | Order No. |           | Range<br>(range/rev) | Accuracy | Dial<br>reading | Measuring<br>force | ANSI/AGD type                                                                       |                                                                                     |                                                                                     |                                                                                     |   |
|------------|-----------|-----------|----------------------|----------|-----------------|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|
|            | w/ lug    | Flat-back |                      |          |                 |                    |  |  |  |  |   |
| .001"      | 2780S     | 2780SB    | .125" (.05")         | ±.001"   | 0-50            | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                   | — |
| .001"      | 2781S     | 2781SB    | .125" (.05")         | ±.001"   | 0-25-0          | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                   | — |
| .001"      | 2410S     | 2410SB    | .25" (.1")           | ±.001"   | 0-100           | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                   | — |
| .001"      | 2410S-06  | 2410SB-06 | .25" (.1")           | ±.001"   | 0-100           | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                   | — |
| .001"      | 2410S-10  | 2410SB-10 | .25" (.1")           | ±.001"   | 0-100           | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .001"      | 2410S-60  | 2410SB-60 | .25" (.1")           | ±.001"   | 0-100           | 2.5N or less       | —                                                                                   | ✓                                                                                   | —                                                                                   | —                                                                                   | — |
| .001"      | 2411S     | 2411SB    | .25" (.1")           | ±.001"   | 0-50-0          | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                   | — |
| .001"      | 2411S-10  | 2411SB-10 | .25" (.1")           | ±.001"   | 0-50-0          | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .001"      | 2411S-60  | 2411SB-60 | .25" (.1")           | ±.001"   | 0-50-0          | 2.5N or less       | —                                                                                   | ✓                                                                                   | —                                                                                   | —                                                                                   | — |
| .001"      | 2414S     | 2414SB    | .5" (.1")            | ±.001"   | 0-100           | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                   | — |
| .001"      | 2414S-06  | 2414SB-06 | .5" (.1")            | ±.001"   | 0-100           | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                   | — |
| .001"      | 2414S-10  | 2414SB-10 | .5" (.1")            | ±.001"   | 0-100           | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .001"      | 2414S-60  | 2414SB-60 | .5" (.1")            | ±.001"   | 0-100           | 2.5N or less       | —                                                                                   | ✓                                                                                   | —                                                                                   | —                                                                                   | — |
| .001"      | 2415S     | 2415SB    | .5" (.1")            | ±.001"   | 0-50-0          | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                   | — |
| .001"      | 2415S-10  | 2415SB-10 | .5" (.1")            | ±.001"   | 0-50-0          | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .001"      | 2415S-60  | 2415SB-60 | .5" (.1")            | ±.001"   | 0-50-0          | 2.5N or less       | —                                                                                   | ✓                                                                                   | —                                                                                   | —                                                                                   | — |
| .001"      | 2914S     | 2914SB    | .5" (.1")            | ±.001"   | 100-0           | 1.8N or less       | —                                                                                   | —                                                                                   | ✓                                                                                   | —                                                                                   | — |
| .0005"     | 2506S     | 2506SB    | .125" (.05")         | ±.0005"  | 0-50            | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                   | — |
| .0005"     | 2506S-10  | 2506SB-10 | .125" (.05")         | ±.0005"  | 0-50            | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .0005"     | 2507S     | 2507SB    | .125" (.05")         | ±.0005"  | 0-25-0          | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                   | — |
| .0005"     | 2507S-10  | 2507SB-10 | .125" (.05")         | ±.0005"  | 0-25-0          | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .0005"     | 2514S     | 2514SB    | .5" (.05")           | ±.0015"  | 0-50            | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                   | — |
| .0005"     | 2514S-10  | 2514SB-10 | .5" (.05")           | ±.0015"  | 0-50            | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .0005"     | 2514S-60  | 2514SB-60 | .5" (.05")           | ±.0015"  | 0-50            | 2.5N or less       | —                                                                                   | ✓                                                                                   | —                                                                                   | —                                                                                   | — |
| .0005"     | 2570S-10  | 2570SB-10 | .075" (.03")         | ±.0005"  | 0-30            | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .0005"     | 2570S-70  | 2570SB-70 | .075" (.03")         | ±.0005"  | 0-30            | 2.5N or less       | —                                                                                   | ✓                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .0005"     | 2571S-10  | 2571SB-10 | .075" (.03")         | ±.0005"  | 0-15-0          | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .0005"     | 2571S-70  | 2571SB-70 | .075" (.03")         | ±.0005"  | 0-15-0          | 2.5N or less       | —                                                                                   | ✓                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .0005"     | 2576S-70  | 2576SB-70 | .3" (.03")           | ±.001"   | 0-30            | 2.5N or less       | —                                                                                   | ✓                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .0005"     | 2670S     | 2670SB    | .1" (.04")           | ±.0005"  | 0-40            | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                   | — |
| .0005"     | 2671S     | 2671SB    | .1" (.04")           | ±.0005"  | 0-20-0          | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                   | — |
| .0005"     | 2675S     | 2675SB    | .4" (.04")           | ±.0015"  | 0-20-0          | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                   | — |
| .0005"     | 2906S     | 2906SB    | .125" (.05")         | ±.0005"  | 50-0            | 1.8N or less       | —                                                                                   | —                                                                                   | ✓                                                                                   | —                                                                                   | — |
| .0005"     | 2922S     | 2922SB    | .125" (.05")         | ±.0005"  | 0-25-0          | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                   | — |
| .00025"    | 2470S-10  | 2470SB-10 | .05" (.02")          | ±.00025" | 0-20            | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .00025"    | 2471S-10  | 2471SB-10 | .05" (.02")          | ±.0005"  | 0-10-0          | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .00025"    | 2476S-10  | 2476SB-10 | .2" (.02")           | ±.0005"  | 0-20            | 1.8N or less       | —                                                                                   | —                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .00025"    | 2476S-70  | 2476SB-70 | .2" (.02")           | ±.0005"  | 0-20            | 2.5N or less       | —                                                                                   | ✓                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .0001"     | 2356S-10  | 2356SB-10 | .25" (.01")          | ±.0008"  | 0-10            | 2.0N or less       | —                                                                                   | —                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .0001"     | 2358S-10  | 2358SB-10 | .5" (.01")           | ±.0002"  | 0-10            | 2.0N or less       | —                                                                                   | —                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .0001"     | 2802S-10  | 2802SB-10 | .025" (.01")         | ±.0001"  | 0-10            | 2.0N or less       | ✓                                                                                   | —                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .0001"     | 2802S-70  | 2802SB-70 | .025" (.01")         | ±.0001"  | 0-10            | 2.5N or less       | ✓                                                                                   | ✓                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .0001"     | 2803S-10  | 2803SB-10 | .025" (.01")         | ±.0001"  | 0-5-0           | 2.0N or less       | ✓                                                                                   | —                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .0001"     | 2803S-70  | 2803SB-70 | .025" (.01")         | ±.0001"  | 0-5-0           | 2.5N or less       | ✓                                                                                   | ✓                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .0001"     | 2804S-10  | 2804SB-10 | .05" (.01")          | ±.0002"  | 0-10            | 2.0N or less       | ✓                                                                                   | —                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .0001"     | 2805S-10  | 2805SB-10 | .05" (.01")          | ±.0002"  | 0-5-0           | 2.0N or less       | ✓                                                                                   | —                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .0001"     | 2806S-10  | 2806SB-10 | .1" (.01")           | ±.0003"  | 0-10            | 2.0N or less       | ✓                                                                                   | —                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .0001"     | 2806S-70  | 2806SB-70 | .1" (.01")           | ±.0003"  | 0-10            | 2.5N or less       | ✓                                                                                   | ✓                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .0001"     | 2905S-10  | 2905SB-10 | .05" (.01")          | ±.0002"  | 10-0            | 2.0N or less       | ✓                                                                                   | —                                                                                   | ✓                                                                                   | ✓                                                                                   | — |
| .0001"     | 2923S-10  | 2923SB-10 | .05" (.01")          | ±.0002"  | 0-5-0           | 2.0N or less       | ✓                                                                                   | —                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .0001"     | 2937S-10  | 2937SB-10 | .02" (.008")         | ±.0001"  | 0-4-0           | 2.0N or less       | ✓                                                                                   | —                                                                                   | —                                                                                   | ✓                                                                                   | — |
| .0001"     | 2938S-10  | 2938SB-10 | .02" (.008")         | ±.0001"  | 0-8             | 2.0N or less       | ✓                                                                                   | —                                                                                   | —                                                                                   | ✓                                                                                   | — |



(Refer to the page 9 for details.)

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### Optional Accessory

- Backs (See page 266.)
- Contact points (See page 264.)



Shockproof type



Waterproof type



Reverse reading type



Jeweled bearing type

# Special Dial Indicator

## SERIES 2



(Refer to the page 9 for details.)



Adjustable hand



Peak hold



Double-face type



2048S-10

### Adjustable hand dial gauge

The hand position can be adjusted independently of the vertical movement of the spindle by rotating the top knob.



2046S-80

### Peak hold type dial gauge

A mechanism that stops the pointer and the spindle at the depressed position where the spindle is depressed makes the pointer stop and display the maximum value.



2940S

### Double-face type dial gauge

The displacement of the spindle can be read from either the front or rear face.

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### Optional Accessory

- : Backs (See page 266.)
- : Contact points (See page 264.)

### SPECIFICATIONS

#### Metric

| Graduation | Order No. |           | Range (range/rev) | Accuracy | Dial reading | Measuring force | Measuring force |
|------------|-----------|-----------|-------------------|----------|--------------|-----------------|-----------------|
|            | w/ lug    | Flat-back |                   |          |              |                 |                 |
| 0.01mm     | 2048S-10  | 2048SB-10 | 10mm (1mm)        | ±15µm    | 0-100        | 1.4N or less    | Adjustable hand |
| 0.01mm     | 2046S-80  | 2046SB-80 | 10mm (1mm)        | ±15µm    | 0-100        | 5.0N or less    | Peak hold       |
| 0.01mm     | 2940S     | —         | 10mm (1mm)        | ±15µm    | 0-100        | 3.0N or less    | Double-face     |

ISO/JIS type

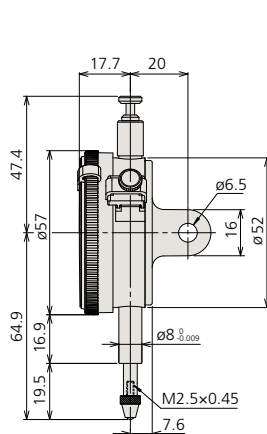
#### Inch

| Graduation | Order No. |           | Range (range/rev) | Accuracy | Dial reading | Measuring force | Remarks                          |
|------------|-----------|-----------|-------------------|----------|--------------|-----------------|----------------------------------|
|            | w/ lug    | Flat-back |                   |          |              |                 |                                  |
| .001"      | 2915S-10  | 2915SB-10 | .5" (.1")         | ±.001"   | 0-100        | 1.8N or less    | Jeweled bearing, adjustable hand |
| .001"      | 2918S-10  | 2918SB-10 | .5" (.1")         | ±.001"   | 0-50-0       | 1.8N or less    | Jeweled bearing, adjustable hand |
| .001"      | 2919S-10  | 2919SB-10 | .25" (.1")        | ±.001"   | 0-100        | 1.8N or less    | Jeweled bearing, adjustable hand |
| .001"      | 2920S-10  | 2920SB-10 | .25" (.1")        | ±.001"   | 0-50-0       | 1.8N or less    | Jeweled bearing, adjustable hand |

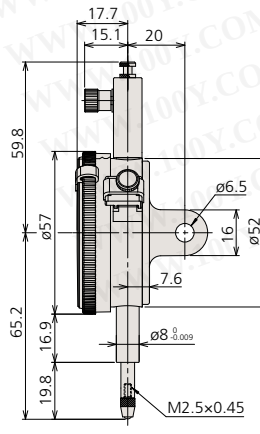
ANSI/AGD type

### DIMENSION

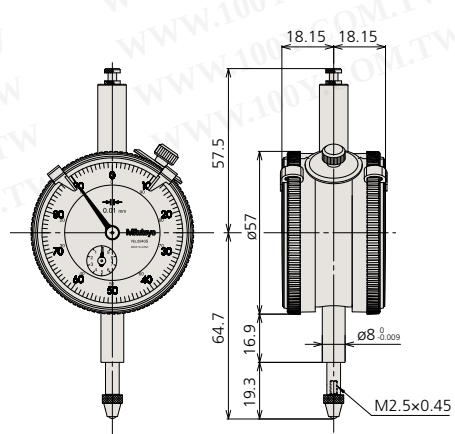
ISO/JIS Type



2048S-10



2046S-80



2940S

Unit: mm

# Dial Indicator

## SERIES 2 — Standard One Revolution Type for Error-free Reading

Unlike many other dial indicators, the one-revolution dial indicator literally shows the entire spindle travel or range as one sweep of the hand, eliminating the possibility of reading errors due to miscounting the multiple revolutions. With one-revolution dial indicators, "within tolerance" and "out-of-tolerance" can never be misinterpreted.

### FEATURES

- An unique shock-proof mechanism is incorporated, providing improved immunity to shock due to sudden spindle retraction caused by high impact.

- The crystal is hard coated for durability and scratch resistance.
- Approximately 40% lighter than the conventional dial indicator.
- Provided with an improved resistance to shop floor contaminants such as water and dust.
- Due to the spindle bushing being offset from the stem, spindle movement will not be hindered or jammed when clamping along the stem.
- A pair of limit hands are provided for quick and easy tolerance judgment (GO/±NG).



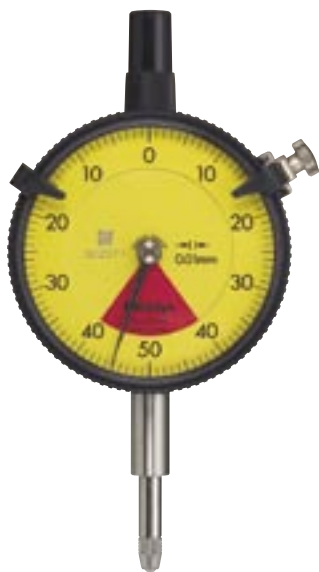
2971



2972



2973



29295



29005-10



2990



2971



2972



2973



29285



(Refer to the page 9 for details.)

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Shockproof type



Waterproof type



Dustproof type



Jeweled bearing type

## SPECIFICATIONS

## Metric

ISO/JIS type

| Graduation | Order No. |           | Range<br>(range/full stroke) | Accuracy | Dial<br>reading | Measuring<br>force |   |   |   |   | — |
|------------|-----------|-----------|------------------------------|----------|-----------------|--------------------|---|---|---|---|---|
|            | w/ lug    | Flat-back |                              |          |                 |                    |   |   |   |   |   |
| 0.1mm      | 2928S     | 2928SB    | 4mm / 10mm                   | ±40μm    | 2-0-2           | 1.4N or less       | ✓ | — | — | — | — |
| 0.01mm     | 2929S     | 2929SB    | 0.8mm / 1mm                  | ±9μm     | 40-0-40         | 1.4N or less       | ✓ | — | — | — | — |
| 0.01mm     | 2929S-60  | 2929SB-60 | 0.8mm / 1mm                  | ±9μm     | 40-0-40         | 2.0N or less       | ✓ | ✓ | — | — | — |
| 0.01mm     | 2929S-62  | 2929SB-62 | 0.8mm / 1mm                  | ±9μm     | 40-0-40         | 2.0N or less       | ✓ | — | ✓ | — | — |
| 0.01mm     | 2959S     | 2959SB    | 1.6mm / 2mm                  | ±13μm    | 80-0-80         | 1.4N or less       | ✓ | — | — | — | — |
| 0.001mm    | 2900S-10  | 2900SB-10 | 0.08mm / 0.1mm               | ±3μm     | 40-0-40         | 1.4N or less       | ✓ | — | — | ✓ | — |
| 0.001mm    | 2900S-72  | 2900SB-72 | 0.08mm / 0.1mm               | ±3μm     | 40-0-40         | 2.0N or less       | ✓ | ✓ | — | ✓ | — |
| 0.001mm    | 2900S-70  | 2900SB-72 | 0.08mm / 0.1mm               | ±3μm     | 40-0-40         | 2.0N or less       | ✓ | — | ✓ | — | — |
| 0.001mm    | 2901S-10  | 2901SB-10 | 0.16mm / 0.2mm               | ±4μm     | 80-0-80         | 1.4N or less       | ✓ | — | — | ✓ | — |
| 0.02mm     | —         | 2973      | 1.6mm / 2mm                  | ±16μm    | 80-0-80         | 1.4N or less       | ✓ | — | ✓ | — | — |
| 0.01mm     | —         | 2971      | 0.5mm / 0.7mm                | ±10μm    | 25-0-25         | 1.4N or less       | ✓ | — | ✓ | — | — |
| 0.01mm     | —         | 2972      | 1mm / 1.4mm                  | ±12μm    | 50-0-50         | 1.4N or less       | ✓ | — | ✓ | — | — |
| 0.01mm     | 2990*     | —         | 0.1mm / 0.14mm               | ±6.5μm   | 50-0-50         | 1.5N or less       | ✓ | — | — | ✓ | — |
| 0.001mm    | —         | 2960F*    | 1mm / 1.27mm                 | ±14μm    | 50-0-50         | 1.4N or less       | ✓ | — | — | — | — |

\*Back plunger type (see page 262.)

## Inch

ANSI/AGD type

| Graduation | Order No. |           | Range<br>(range/full stroke) | Accuracy | Dial<br>reading | Measuring<br>force |   |   |   |   | — |
|------------|-----------|-----------|------------------------------|----------|-----------------|--------------------|---|---|---|---|---|
|            | w/ lug    | Flat-back |                              |          |                 |                    |   |   |   |   |   |
| .001"      | 2908S     | 2908SB    | .08" / .1"                   | ±.001"   | 40-0-40         | 1.8N or less       | ✓ | — | — | — | — |
| .001"      | 2908S-62  | 2908SB-62 | .08" / .1"                   | ±.001"   | 40-0-40         | 2.5N or less       | ✓ | ✓ | — | — | — |
| .0005"     | 2909S-62  | 2909SB-62 | .04" / .05"                  | ±.0005"  | 20-0-20         | 2.5N or less       | ✓ | ✓ | — | — | — |
| .0001"     | 2910S-10  | 2910SB-10 | .008" / .01"                 | ±.0001"  | 4-0-4           | 1.8N or less       | ✓ | — | ✓ | — | — |
| .0001"     | 2910S-72  | 2910SB-72 | .008" / .01"                 | ±.0001"  | 4-0-4           | 2.5N or less       | ✓ | ✓ | ✓ | — | — |
| .001"      | —         | 2978      | .06" / .079"                 | ±.001"   | 30-0-30         | 1.4N or less       | ✓ | ✓ | — | — | — |
| .0005"     | —         | 2976      | .02" / .028"                 | ±.0005"  | 10-0-10         | 1.4N or less       | ✓ | ✓ | — | — | — |
| .0005"     | —         | 2977      | .04" / .055"                 | ±.0005"  | 20-0-20         | 1.4N or less       | ✓ | ✓ | — | — | — |
| .0001"     | —         | 2991*     | .008" / .01"                 | ±.0002"  | 4-0-4           | 1.5N or less       | ✓ | — | ✓ | — | — |

\*Back plunger type (see page 262.)

## DIMENSION

| ISO/JIS Type |  | Unit: mm |      |      |      |    |      |      |    |     |  |
|--------------|--|----------|------|------|------|----|------|------|----|-----|--|
|              |  | A        | B    | C    | D    | E  | F    | G    | H  | I   |  |
|              |  | 43.2     | 65.6 | 55.6 | 16.2 | —  | 21   | 16.8 | 55 | 7.6 |  |
|              |  | 43.2     | 66.0 | 55.6 | 16.2 | —  | 21   | 17.2 | 55 | 7.6 |  |
|              |  | 43.2     | 66.3 | 55.6 | 16.2 | —  | 21   | 17.5 | 55 | 7.6 |  |
|              |  | 48.8     | 65.2 | 57   | 17.7 | 20 | 12.3 | 29.2 | 52 | 7.6 |  |
|              |  | 48.8     | 65.2 | 57   | 17.7 | 20 | 16.9 | 19.8 | 52 | 7.6 |  |
|              |  | 48.8     | 70   | 57   | 17.7 | 20 | 12.3 | 29.2 | 52 | 7.6 |  |
|              |  | 48.8     | 65.2 | 57   | 17.7 | 20 | 16.9 | 19.8 | 52 | 7.6 |  |
|              |  | 48.8     | 66   | 57   | 17.7 | 20 | 16.9 | 20.6 | 52 | 7.6 |  |
|              |  | 48.8     | 67   | 57   | 17.7 | 20 | 12.3 | 26.2 | 52 | 7.6 |  |
|              |  | 48.8     | 66.1 | 57   | 17.7 | 20 | 16.9 | 20.7 | 52 | 7.6 |  |
|              |  | 48.8     | 65.2 | 57   | 17.7 | 20 | 16.9 | 19.8 | 52 | 7.6 |  |

Note 1: Dimensions of the inch (ANSI/AGD Type) dial indicator partly differ from those of the metric (ISO/JIS Type) indicator.

Note 2: Inch (ANSI/AGD Type) dial indicator is provided with a stem of 3/8" dia. and #4-48UNF thread mount for the contact point.

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2929S  
 2929S-60  
 2929S-62



2959S



2900S-10  
 2900S-70  
 2900S-72



2901S-10

## Optional Accessory

- : Backs (See page 266.)
- : Contact points (See page 264.)

# Dial Indicator

## SERIES 2 — Long Stroke Type

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2050S



2330S-10



2052S



(Refer to the page 9 for details.)



2050S-60  
 2050S  
 2050S-19



2052S  
 2052S-19



2330S-10



2320S-10



2952S



Shockproof type



Waterproof type



w/ damper at lowest rest point



Jeweled bearing type



w/ coaxial revolution counter



Reverse reading type

## SPECIFICATIONS

## Metric

ISO/JIS type

| Graduation | Order No. |           | Range (range/rev) | Accuracy | Dial reading | Measuring force |   |   |   |   |   |   |
|------------|-----------|-----------|-------------------|----------|--------------|-----------------|---|---|---|---|---|---|
|            | w/ lug    | Flat-back |                   |          |              |                 |   |   |   |   |   |   |
| 0.01mm     | 2050S     | 2050SB    | 20mm (1mm)        | ±20μm    | 0-100        | 2.0N or less    | — | — | ✓ | — | — | — |
| 0.01mm     | 2050S-60  | 2050SB-60 | 20mm (1mm)        | ±20μm    | 0-100        | 2.5N or less    | — | ✓ | — | — | — | — |
| 0.01mm     | 2050S-19  | 2050SB-19 | 20mm (1mm)        | ±20μm    | 0-100        | 2.0N or less    | ✓ | — | ✓ | ✓ | — | — |
| 0.01mm     | 2320S-10  | 2320SB-10 | 20mm (1mm)        | ±20μm    | 0-100        | 2.0N or less    | — | — | ✓ | ✓ | ✓ | — |
| 0.01mm     | 2052S     | 2052SB    | 30mm (1mm)        | ±25μm    | 0-100        | 2.5N or less    | — | — | ✓ | — | — | — |
| 0.01mm     | 2052S-19  | 2052SB-19 | 30mm (1mm)        | ±25μm    | 0-100        | 2.5N or less    | ✓ | — | ✓ | ✓ | — | — |
| 0.01mm     | 2330S-10  | 2330SB-10 | 30mm (1mm)        | ±25μm    | 0-100        | 2.5N or less    | — | — | ✓ | ✓ | ✓ | — |
| 0.01mm     | 2952S     | 2952SB    | 30mm (1mm)        | ±25μm    | 100-0        | 2.5N or less    | — | — | ✓ | — | — | ✓ |

## Inch

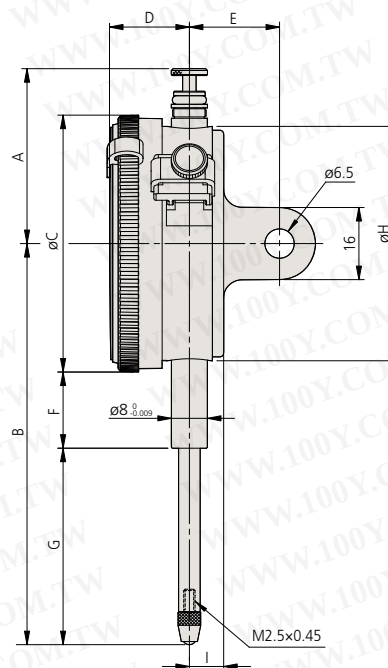
ANSI/AGD type

| Graduation | Order No. |           | Range (range/rev) | Accuracy | Dial reading | Measuring force |   |   |   |   |   |   |
|------------|-----------|-----------|-------------------|----------|--------------|-----------------|---|---|---|---|---|---|
|            | w/ lug    | Flat-back |                   |          |              |                 |   |   |   |   |   |   |
| .01"       | 2204S     | 2204SB    | 1" (1")           | ±.005"   | 0-1000       | 1.8N or less    | — | — | — | — | — | — |
| .001"      | 2416S     | 2416SB    | 1" (.1")          | ±.001"   | 0-100        | 1.8N or less    | — | — | — | — | — | — |
| .001"      | 2416S-06  | 2416SB-06 | 1" (.1")          | ±.001"   | 0-100        | 1.8N or less    | — | — | — | — | — | — |
| .001"      | 2416S-10  | 2416SB-10 | 1" (.1")          | ±.001"   | 0-100        | 1.8N or less    | — | — | — | ✓ | — | — |
| .001"      | 2416S-60  | 2416SB-60 | 1" (.1")          | ±.001"   | 0-100        | 2.5N or less    | — | ✓ | — | — | — | — |
| .001"      | 2417S     | 2417SB    | 1" (.1")          | ±.001"   | 0-50-0       | 1.8N or less    | — | — | — | — | — | — |
| .001"      | 2424S-19  | 2424SB-19 | 2" (.1")          | ±.003"   | 0-100        | 2.5N or less    | ✓ | — | — | ✓ | — | ✓ |
| .0005"     | 2776S     | 2776SB    | 1" (.05")         | ±.002"   | 0-50         | 1.8N or less    | — | — | — | — | — | — |
| .0005"     | 2776S-60  | 2776SB-60 | 1" (.05")         | ±.002"   | 0-50         | 2.5N or less    | — | ✓ | — | — | — | — |
| .001"      | 2904S     | 2904SB    | 1" (.1")          | ±.002"   | 100-0        | 2.0N or less    | — | — | ✓ | — | — | — |

## DIMENSION

ISO/JIS Type

Unit: mm



| Order No. | A    | B    | C  | D    | E  | F    | G    | H  | I   |
|-----------|------|------|----|------|----|------|------|----|-----|
| 2050S     | 38.8 | 75.2 | 57 | 17.7 | 20 | 16.9 | 29.8 | 52 | 7.6 |
| 2050S-60  | 59.8 | 87.2 | 57 | 17.7 | 20 | 12.3 | 46.4 | 52 | 7.6 |
| 2050S-19  | 38.8 | 75.2 | 57 | 17.7 | 20 | 16.9 | 29.8 | 52 | 7.6 |
| 2320S-10  | 38.8 | 75.2 | 57 | 17.7 | 20 | 16.9 | 29.8 | 52 | 7.6 |
| 2052S     | 38.8 | 88.7 | 57 | 17.7 | 20 | 16.9 | 43.3 | 52 | 7.6 |
| 2052S-19  | 38.8 | 88.7 | 57 | 17.7 | 20 | 16.9 | 43.3 | 52 | 7.6 |
| 2330S-10  | 38.8 | 88.7 | 57 | 17.7 | 20 | 16.9 | 43.3 | 52 | 7.6 |
| 2952S     | 38.8 | 88.7 | 57 | 17.7 | 20 | 16.9 | 43.3 | 52 | 7.6 |

## Optional Accessory

- : Backs (See page 266.)
- : Contact points (See page 264.)

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# Dial Indicator

## SERIES 3, 4 — Large Dial Face and Long Stroke Type

- Dial gauges with a large-diameter graduation face to ease reading.
- All types come with limit pins and an outer frame clamp as standard.



3109S-10

3058S-19

4046S



(Refer to the page 9 for details.)



3046S



3047S

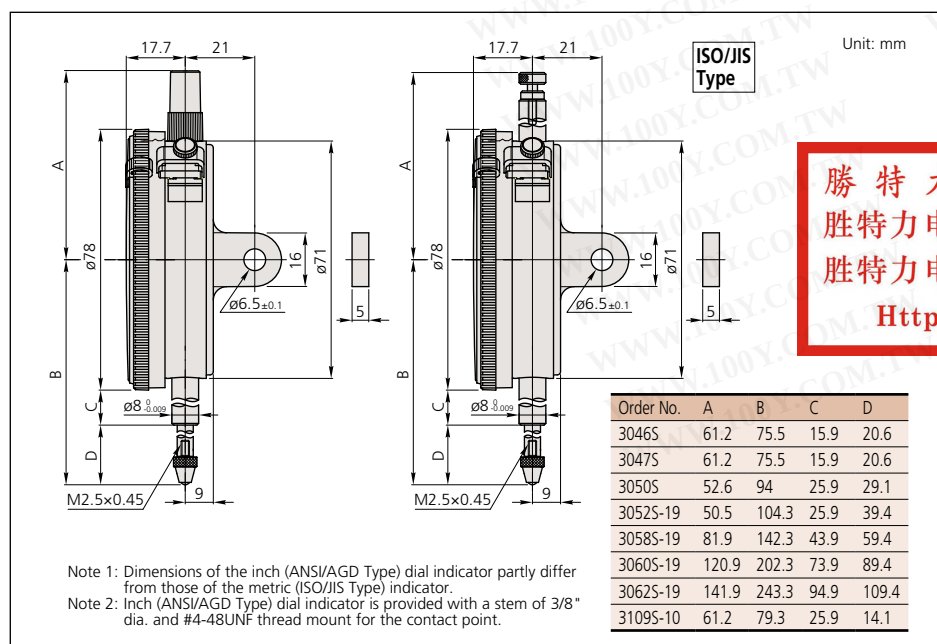


3050S



3052S-19

## DIMENSION



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# ANSI/AGD Type Metric Dial Indicator

with 3/8" DIA. Stem and #4-48UNF-Thread Contact Point Compatible Type

## SPECIFICATIONS

**Metric** Series 1 ANSI/AGD type

| Graduation | Order No.       |                  | Range (range/rev) | Accuracy | Dial reading | Measuring force |  |  |  |  |  |  |
|------------|-----------------|------------------|-------------------|----------|--------------|-----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|            | w/ lug          | Flat-back        |                   |          |              |                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |
| 0.01mm     | <b>1230F-01</b> | <b>1230FB-01</b> | 2.5mm (1mm)       | ±10μm    | 0-100        | 1.5N or less    | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.01mm     | <b>1231F-01</b> | <b>1231FB-01</b> | 2.5mm (1mm)       | ±10μm    | 0-50-0       | 1.5N or less    | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.01mm     | <b>1044F-01</b> | <b>1044FB-01</b> | 5mm (1mm)         | ±10μm    | 0-100        | 1.4N or less    | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.01mm     | <b>1045F-01</b> | <b>1045FB-01</b> | 5mm (1mm)         | ±10μm    | 0-50-0       | 1.4N or less    | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.002mm    | <b>1010F-11</b> | <b>1010FB-11</b> | 0.5mm (0.2mm)     | ±2μm     | 0-20         | 1.5N or less    | ✓                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.002mm    | <b>1011F-11</b> | <b>1011FB-11</b> | 0.5mm (0.2mm)     | ±2μm     | 0-10-0       | 1.5N or less    | ✓                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |



(Refer to the page 9 for details.)

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**Metric** Series 2 ANSI/AGD type

| Graduation | Order No.        |                   | Range (range/rev) | Accuracy | Dial reading | Measuring force |  |  |  |  |  |  |
|------------|------------------|-------------------|-------------------|----------|--------------|-----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|            | w/ lug           | Flat-back         |                   |          |              |                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |
| 0.02mm     | <b>2032S-11</b>  | <b>2032SB-11</b>  | 5mm (2mm)         | ±20μm    | 0-200        | 1.4N or less    | —                                                                                 | ✓                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.02mm     | <b>2033S-11</b>  | <b>2033SB-11</b>  | 5mm (2mm)         | ±20μm    | 0-100-0      | 1.4N or less    | —                                                                                 | ✓                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.01mm     | <b>2230S-01</b>  | <b>2230SB-01</b>  | 2.5mm (1mm)       | ±10μm    | 0-100        | 1.4N or less    | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.01mm     | <b>2231S-01</b>  | <b>2231SB-01</b>  | 2.5mm (1mm)       | ±10μm    | 0-100        | 1.4N or less    | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.01mm     | <b>2231S-11</b>  | <b>2231SB-11</b>  | 2.5mm (1mm)       | ±10μm    | 0-50-0       | 1.4N or less    | —                                                                                 | ✓                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.01mm     | <b>2044S-01</b>  | <b>2044SB-01</b>  | 5mm (1mm)         | ±10μm    | 0-100        | 1.4N or less    | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.01mm     | <b>2044S-61</b>  | <b>2044SB-61</b>  | 5mm (1mm)         | ±10μm    | 0-100        | 2.5N or less    | ✓                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.01mm     | <b>2045S-01</b>  | <b>2045SB-01</b>  | 5mm (1mm)         | ±10μm    | 0-50-0       | 1.4N or less    | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.01mm     | <b>2046S-01</b>  | <b>2046SB-01</b>  | 10mm (1mm)        | ±13μm    | 0-100        | 1.4N or less    | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.01mm     | <b>2046S-11</b>  | <b>2046SB-11</b>  | 10mm (1mm)        | ±13μm    | 0-100        | 1.4N or less    | —                                                                                 | ✓                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.01mm     | <b>2046S-61</b>  | <b>2046SB-61</b>  | 10mm (1mm)        | ±13μm    | 0-100        | 2.5N or less    | ✓                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.01mm     | <b>2048S-11</b>  | <b>2048SB-11</b>  | 10mm (1mm)        | ±13μm    | 0-100        | 1.4N or less    | —                                                                                 | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 | —                                                                                 | —                                                                                  |
| 0.01mm     | <b>2047S-01</b>  | <b>2047SB-01</b>  | 10mm (1mm)        | ±13μm    | 0-50-0       | 1.4N or less    | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.01mm     | <b>2047S-11</b>  | <b>2047SB-11</b>  | 10mm (1mm)        | ±13μm    | 0-50-0       | 1.4N or less    | —                                                                                 | ✓                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.01mm     | <b>2902S-01</b>  | <b>2902SB-01</b>  | 10mm (1mm)        | ±13μm    | 100-0        | 1.4N or less    | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.01mm     | <b>2050S-01</b>  | <b>2050SB-01</b>  | 20mm (1mm)        | ±20μm    | 0-100        | 2.0N or less    | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.01mm     | <b>2050S-11</b>  | <b>2050SB-11</b>  | 20mm (1mm)        | ±20μm    | 0-100        | 2.0N or less    | —                                                                                 | ✓                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.01mm     | <b>2056S-01</b>  | <b>2056SB-01</b>  | 25mm (1mm)        | ±25μm    | 0-100        | 2.5N or less    | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.005mm    | <b>2124S-11</b>  | <b>2124SB-11</b>  | 5mm (0.5mm)       | ±12μm    | 0-50         | 1.5N or less    | —                                                                                 | ✓                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.005mm    | <b>2124S-71</b>  | <b>2124SB-71</b>  | 5mm (0.5mm)       | ±12μm    | 0-50         | 2.5N or less    | ✓                                                                                 | ✓                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.005mm    | <b>2125S-11</b>  | <b>2125SB-11</b>  | 5mm (0.5mm)       | ±12μm    | 0-25-0       | 1.5N or less    | —                                                                                 | ✓                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.005mm    | <b>2125S-71</b>  | <b>2125SB-71</b>  | 5mm (0.5mm)       | ±12μm    | 0-25-0       | 2.5N or less    | ✓                                                                                 | ✓                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.002mm    | <b>2010S-11</b>  | <b>2010SB-11</b>  | 0.5mm (0.2mm)     | ±3μm     | 0-20         | 1.5N or less    | —                                                                                 | ✓                                                                                 | —                                                                                 | —                                                                                 | ✓                                                                                 | —                                                                                  |
| 0.002mm    | <b>2010S-71</b>  | <b>2010SB-71</b>  | 0.5mm (0.2mm)     | ±3μm     | 0-20         | 2.5N or less    | ✓                                                                                 | ✓                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.002mm    | <b>2011S-11</b>  | <b>2011SB-11</b>  | 0.5mm (0.2mm)     | ±3μm     | 0-10-0       | 1.5N or less    | —                                                                                 | ✓                                                                                 | —                                                                                 | —                                                                                 | ✓                                                                                 | —                                                                                  |
| 0.002mm    | <b>2011S-71</b>  | <b>2011SB-71</b>  | 0.5mm (0.2mm)     | ±3μm     | 0-10-0       | 2.5N or less    | ✓                                                                                 | ✓                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |
| 0.001mm    | <b>2900S-73*</b> | <b>2900SB-73*</b> | 0.08mm (0.1mm)    | ±2μm     | 40-0-40      | 1.4N or less    | —                                                                                 | ✓                                                                                 | —                                                                                 | —                                                                                 | ✓                                                                                 | ✓                                                                                  |
| 0.001mm    | <b>2109S-11</b>  | <b>2109SB-11</b>  | 1mm (0.2mm)       | ±4μm     | 0-10-0       | 1.5N or less    | —                                                                                 | ✓                                                                                 | —                                                                                 | —                                                                                 | ✓                                                                                 | —                                                                                  |
| 0.001mm    | <b>2119S-11</b>  | <b>2119SB-11</b>  | 5mm (0.2mm)       | ±10μm    | 0-10-0       | 1.5N or less    | —                                                                                 | ✓                                                                                 | —                                                                                 | —                                                                                 | —                                                                                 | —                                                                                  |

\*One revolution type

**Metric** Series 3 ANSI/AGD type

| Graduation | Order No.       |                  | Range (range/rev) | Accuracy | Dial reading | Measuring force |  |  |  |  |  |  |
|------------|-----------------|------------------|-------------------|----------|--------------|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|            | w/ lug          | Flat-back        |                   |          |              |                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |
| 0.01mm     | <b>3230S-01</b> | <b>3230SB-01</b> | 2.5mm (1mm)       | ±10μm    | 0-100        | 1.4N or less    | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                    |
| 0.01mm     | <b>3231S-01</b> | <b>3231SB-01</b> | 2.5mm (1mm)       | ±10μm    | 0-50-0       | 1.4N or less    | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                    |
| 0.01mm     | <b>3052S-11</b> | <b>3052SB-11</b> | 30mm (1mm)        | ±30μm    | 0-100        | 2.5N or less    | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | —                                                                                   | —                                                                                   | —                                                                                    |
| 0.01mm     | <b>3058S-11</b> | <b>3058SB-11</b> | 50mm (1mm)        | ±40μm    | 0-100        | 3.0N or less    | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | —                                                                                   | —                                                                                   | —                                                                                    |
| 0.002mm    | <b>3010S-11</b> | <b>3010SB-11</b> | 0.5mm (0.2mm)     | ±2μm     | 0-20         | 1.5N or less    | ✓                                                                                   | —                                                                                   | ✓                                                                                   | —                                                                                   | —                                                                                   | —                                                                                    |
| 0.002mm    | <b>3011S-11</b> | <b>3011SB-11</b> | 0.5mm (0.2mm)     | ±2μm     | 0-10-0       | 1.5N or less    | ✓                                                                                   | —                                                                                   | ✓                                                                                   | —                                                                                   | —                                                                                   | —                                                                                    |

**Metric** Series 4 ANSI/AGD type

| Graduation | Order No.       |                  | Range (range/rev) | Accuracy | Dial reading | Measuring force |  |  |  |  |  |  |
|------------|-----------------|------------------|-------------------|----------|--------------|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|            | w/ lug          | Flat-back        |                   |          |              |                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |
| 0.01mm     | <b>4230S-01</b> | <b>4230SB-01</b> | 2.5mm (1mm)       | ±10μm    | 0-100        | 1.4N or less    | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                    |
| 0.01mm     | <b>4231S-01</b> | <b>4231SB-01</b> | 2.5mm (1mm)       | ±10μm    | 0-50-0       | 1.4N or less    | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                   | —                                                                                    |



Waterproof type



Jeweled bearing type



Adjustable hand type



w/ coaxial revolution counter



Schockproof type



Dustproof type

# Hicator, Signal Hicator

## SERIES 524 — High Accuracy One-Revolution Dial Indicator

### FEATURES

The Hicator is Mitutoyo's ultra-sensitive, one-revolution dial indicator. The spindle is made of highly durable stainless steel, and this device features jeweled bearings for extreme sensitivity as well as a shock-proof and dust-proof structure.

- The maximum, minimum, or runout value can be displayed during measurement.
- The Hicator is capable of probing measurements up to 0.0005mm.
- Connected to an optional Signal Box, the Signal Hicator can output limit signals to perform GO/±NO-GO judgment.
- Splash-proof structure.
- Lug-on-center back is optional.



Hicator  
524-501



Signal Hicator  
524-601

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### Optional Accessory

- 524-001: Signal box (100V AC)  
524-001A: Signal box (120V AC)  
—: Backs (See page 266.)  
—: Contact points (See page 264.)

### SPECIFICATIONS

| Metric     |            | Hicator |              |                |          |                 |                          | ISO/JIS type |
|------------|------------|---------|--------------|----------------|----------|-----------------|--------------------------|--------------|
| Graduation | Order No.* | Range   | Dial reading | Spindle travel | Accuracy | Measuring force | Remarks                  |              |
| 0.001mm    | 524-501    | ±0.05mm | 50-0-50      | 3mm            | ±1μm     | 1.2N or less    | w/ spindle lifting cable |              |
| 0.0005mm   | 524-500    | ±0.03mm | 30-0-30      | 3mm            | ±0.5μm   | 1.2N or less    | w/ spindle lifting cable |              |

\*Flat back

| Metric     |            | Signal Hicator |              |                |          |                 |                    | ISO/JIS type |
|------------|------------|----------------|--------------|----------------|----------|-----------------|--------------------|--------------|
| Graduation | Order No.* | Range          | Dial reading | Spindle stroke | Accuracy | Measuring force | Remarks            |              |
| 0.01mm     | 524-603    | ±0.5mm         | 50-0-50      | 3mm            | ±5μm     | 1.2N or less    | w/ 2m signal cable |              |
| 0.002mm    | 524-602    | ±0.1mm         | 100-0-100    | 3mm            | ±1.5μm   | 1.2N or less    | w/ 2m signal cable |              |
| 0.001mm    | 524-601    | ±0.05mm        | 50-0-50      | 3mm            | ±1μm     | 1.2N or less    | w/ 2m signal cable |              |

\*Flat back

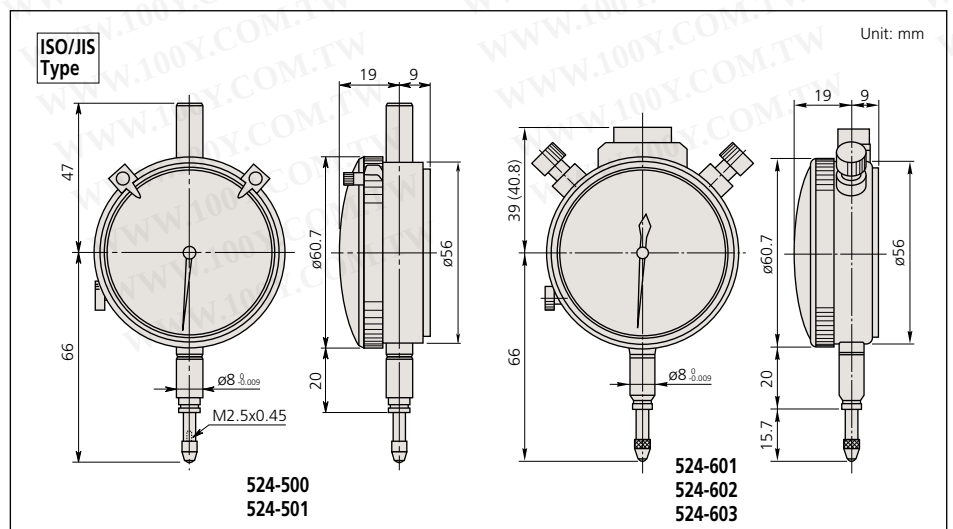
### ABSOLUTE Digimatic Indicator ID-C SERIES 543 — with Green/Red LED and GO/NG Signal Output Function



### FEATURES (See page 237.)

- With the max./min. value holding function, the signal ID-C can output the signal of the GO/±NG judgment result against the peak values set. Substitute for the mechanical/ electrical contact, the judgment is carried out by calculating the measurement data obtained. This provides high reliability with no deterioration of the contact point and volume adjustment.

### DIMENSION



# Back Plunger Type Dial Indicator

## SERIES 1 and 2

Mitutoyo's back plunger type dial indicators are built with the measuring spindles on the back of the units. This type of indicator offers the same precision and durability as all other Mitutoyo dial indicators, and operates very effectively with optional holding bars.

- Back plunger type dial gauges are suitable for mounting onto leveling machine tool tables or inspection jigs, and for use in small spaces where the graduations of standard dial gauges are difficult to see.
- Model No. 1960, which uses Mitutoyo's proprietary shock-proofing mechanism, has excellent durability and shock resistance.
- Model No. 2990 is back plunger type and allows 0.001mm readings.



(Refer to the page 9 for details.)

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1160



1960



1180-6

Holding bar (optional)



2960F



2990



One revolution type



Shockproof type



Jeweled bearing type

## SPECIFICATIONS

## Metric Series 1

ISO/JIS type

| Graduation | Order No. | Range (range/rev) | Accuracy | Dial reading | Measuring force |   |   |   |   |   |   |
|------------|-----------|-------------------|----------|--------------|-----------------|---|---|---|---|---|---|
| 0.01mm     | 1960      | 1mm / 1.27mm*     | ±14μm    | 50-0-50      | 1.4N or less    | ✓ | ✓ | — | — | — | — |
| 0.01mm     | 1160      | 5mm (1mm)         | ±16μm    | 0-100        | 1.4N or less    | — | — | — | — | — | — |
| 0.01mm     | 1162      | 5mm (1mm)         | ±16μm    | 100-0        | 1.4N or less    | — | — | ✓ | — | — | — |
| 0.01mm     | 1180-6    | 5mm (1mm)         | ±16μm    | 0-100        | 1.4N or less    | — | — | — | — | — | — |
| 0.01mm     | 1180-7    | 5mm (1mm)         | ±16μm    | 0-100        | 1.4N or less    | — | — | — | — | — | — |
| 0.01mm     | 1180-8    | 5mm (1mm)         | ±16μm    | 0-100        | 1.4N or less    | — | — | — | — | — | — |

## Inch Series 1

ANSI/AGD type

| Graduation | Order No. | Range (range/rev) | Accuracy | Dial reading | Measuring force |   |   |   |   |   |   |
|------------|-----------|-------------------|----------|--------------|-----------------|---|---|---|---|---|---|
| .001"      | 1961      | .04" / .05"*      | ±.001"   | 20-0-20      | 1.4N or less    | ✓ | ✓ | — | — | — | — |
| .001"      | 1156      | .1" (.1")         | ±.001"   | 0-100        | 2.1N or less    | — | — | — | — | — | — |
| .001"      | 1157      | .1" (.1")         | ±.001"   | 0-50-0       | 2.1N or less    | — | — | — | — | — | — |
| .001"      | 1166      | .2" (.05")        | ±.001"   | 0-50         | 1.4N or less    | — | — | — | — | — | — |
| .001"      | 1167      | .2" (.05")        | ±.001"   | 0-25-0       | 1.4N or less    | — | — | — | — | — | — |
| .001"      | 1168      | .2" (.05")        | ±.001"   | 50-0         | 1.4N or less    | — | — | ✓ | — | — | — |

\*Full stroke

## Metric Series 2

ISO/JIS type

| Graduation | Order No. | Range (range/full stroke) | Accuracy | Dial reading | Measuring force |   |   |   |   |   |   |
|------------|-----------|---------------------------|----------|--------------|-----------------|---|---|---|---|---|---|
| 0.01mm     | 2960F     | 1mm / 1.27"               | ±14μm    | 50-0-50      | 1.4N or less    | ✓ | ✓ | — | — | — | — |
| 0.001mm    | 2990      | 0.1mm / 0.14"             | ±6.5μm   | 50-0-50      | 1.5N or less    | ✓ | ✓ | ✓ | — | — | — |

## Inch Series 2

ANSI/AGD type

| Graduation | Order No. | Range (range/full stroke) | Accuracy | Dial reading | Measuring force |   |   |   |   |   |   |
|------------|-----------|---------------------------|----------|--------------|-----------------|---|---|---|---|---|---|
| .0005"     | 2961      | .04" / .05"               | ±.0005"  | 20-0-20      | 1.8N or less    | ✓ | ✓ | — | — | — | — |
| .0001"     | 2991      | .008" / .01"              | ±.0002"  | 4-0-4        | 1.5N or less    | ✓ | ✓ | ✓ | — | — | — |

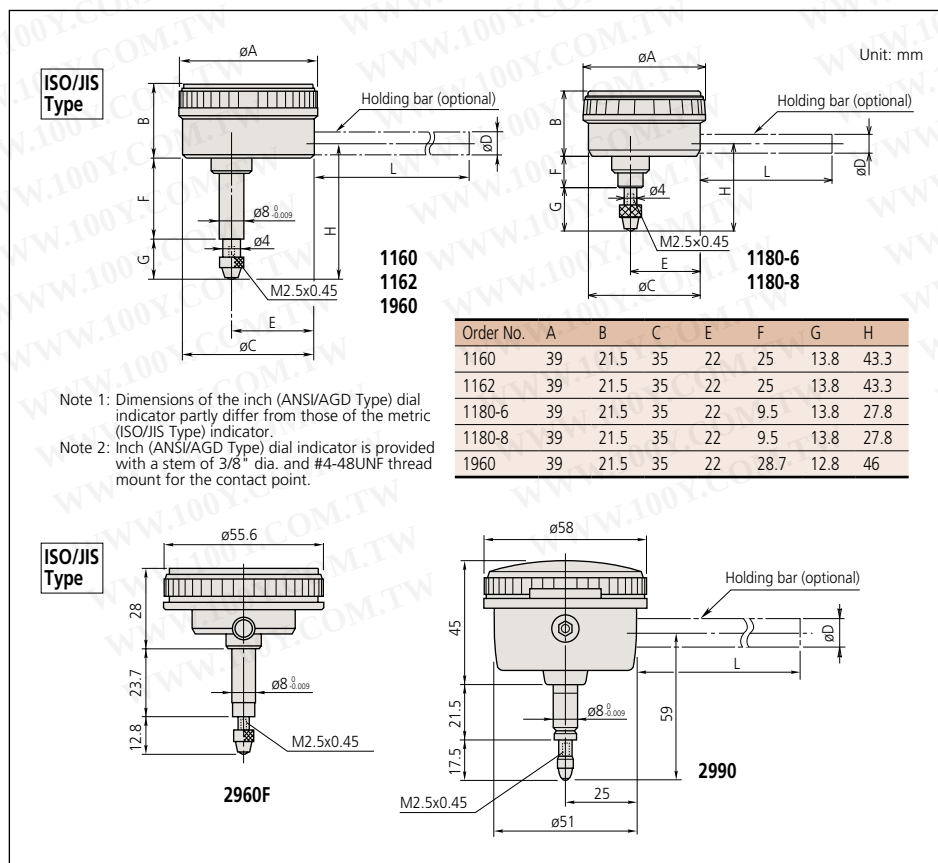
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## Optional Accessory

- 136567: Holding bar (ø6mm, L=81mm)  
 21AAA166: Holding bar (ø6mm, L=42mm)  
 136568: Holding bar (ø8mm, L=81mm)  
 21AAA168: Holding bar (ø8mm, L=42mm)  
 124625: Holding bar (.25" DIA, L=3.19")  
 21AAA167: Holding bar (.25" DIA, L=1.65")  
 —: Backs (See page 266.)  
 —: Contact points (See page 264.)

## DIMENSION

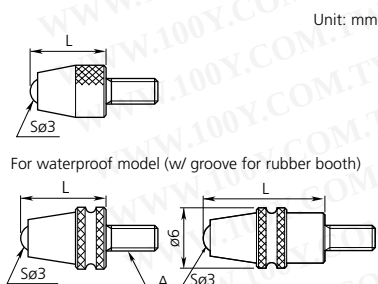


# Contact Point

Optional Accessory for Digimatic and Dial Indicators and Linear Gages

## SPECIFICATIONS

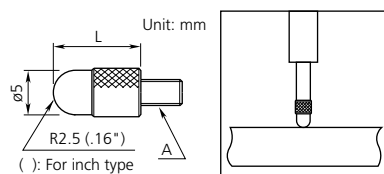
### Ball Points



| L     | Material | Order No. | A         |
|-------|----------|-----------|-----------|
| 7.3   | Carbide  | 901312    | M2.5x0.45 |
|       |          | 901454    | #4-48UNF  |
|       | Plastic  | 901994    | M2.5x0.45 |
|       |          | 902018    | #4-48UNF  |
|       | Ruby     | 120047    | M2.5x0.45 |
| 8.3   | Carbide  | 21AZA319  | M2.5x0.45 |
| 8.3*  | Carbide  | 902119    | M2.5x0.45 |
| 12.1* | Carbide  | 21AZA320  | M2.5x0.45 |
| 14    | Carbide  | 21JAA225  | M2.5x0.45 |
| 15    | Carbide  | 120049    | M2.5x0.45 |
|       | Ruby     | 120051    | M2.5x0.45 |
| 17    | Carbide  | 21JAA224  | M2.5x0.45 |
| 19.3* | Carbide  | 21AZA321  | M2.5x0.45 |
| 20    | Carbide  | 137391    | M2.5x0.45 |
|       | Ruby     | 137392    | M2.5x0.45 |
| 22    | Carbide  | 21JAA226  | M2.5x0.45 |
| 25    | Carbide  | 120053    | M2.5x0.45 |
|       | Ruby     | 120055    | M2.5x0.45 |
| 30    | Carbide  | 21AAA252  | M2.5x0.45 |
|       | Ruby     | 21AAA253  | M2.5x0.45 |

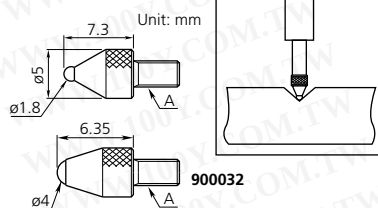
\*For waterproof dial indicators

### Shell Type Points



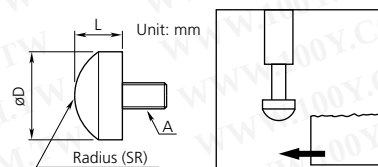
| L     | Order No. | A         |
|-------|-----------|-----------|
| 3.97  | 101184    | #4-48UNF  |
| 5     | 101386    | M2.5x0.45 |
| 10    | 101118    | M2.5x0.45 |
| 12.7  | 101185    | #4-48UNF  |
| 15    | 137393    | M2.5x0.45 |
| 19.05 | 101186    | #4-48UNF  |
| 20    | 101387    | M2.5x0.45 |
| 25    | 101388    | M2.5x0.45 |
| 25.4  | 101187    | #4-48UNF  |
| 30    | 21AAA254  | M2.5x0.45 |

### Ball Point



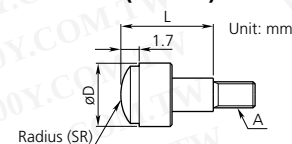
| SøD            | ød  | Order No. | A         |
|----------------|-----|-----------|-----------|
| 1mm, carbide   | 5mm | 21AAA349  | M2.5x0.45 |
| 1.5mm, carbide | 5mm | 21AAA350  | M2.5x0.45 |
| 1.8mm, steel   | 5mm | 101122    | M2.5x0.45 |
| 2.5mm, carbide | 5mm | 21AAA351  | M2.5x0.45 |
| 4mm, carbide   | 5mm | 21AAA352  | M2.5x0.45 |
| 4mm, carbide   | 5mm | 900032    | #4-48UNF  |

### Spherical Points



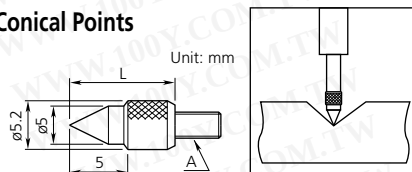
| D    | L    | SR | Order No. | A         |
|------|------|----|-----------|-----------|
| 10   | 5    | 7  | 101119    | M2.5x0.45 |
| 12.7 | 3.18 | 7  | 101205    | #4-48UNF  |
| 9.53 | 2.38 | 9  | 101204    | #4-48UNF  |

### Spherical Points (Carbide)

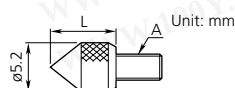


| D    | L  | SR | Order No. | A         |
|------|----|----|-----------|-----------|
| 5.2  | 5  | 5  | 120058    | M2.5x0.45 |
| 7.5  | 10 | 7  | 120059    | M2.5x0.45 |
| 10.5 | 10 | 10 | 120060    | M2.5x0.45 |

### Conical Points

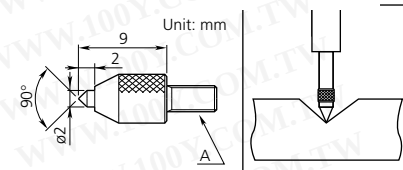


| Tip angle | L    | Order No. | A         |
|-----------|------|-----------|-----------|
| 60°       | 10   | 101120    | M2.5x0.45 |
| 60°       | 12.7 | 101190    | #4-48UNF  |

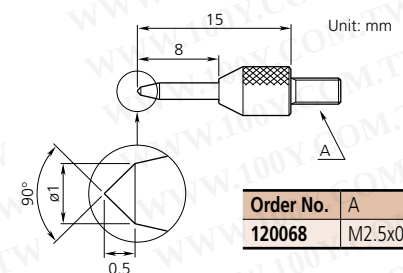


| Tip angle | L    | Order No. | A         |
|-----------|------|-----------|-----------|
| 90°       | 5    | 101385    | M2.5x0.45 |
| 90°       | 7.14 | 101191    | #4-48UNF  |

### Conical Points (Carbide)

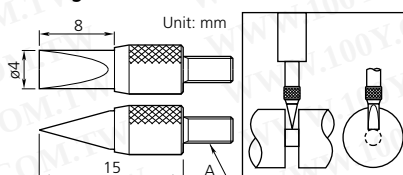


| Order No. | A         |
|-----------|-----------|
| 120057    | M2.5x0.45 |



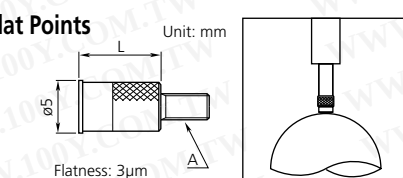
| Order No. | A         |
|-----------|-----------|
| 120068    | M2.5x0.45 |

### Knife Edge Point (Carbide)

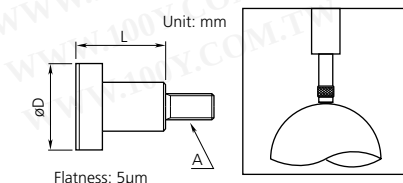


| Order No. | A         |
|-----------|-----------|
| 120067    | M2.5x0.45 |

### Flat Points



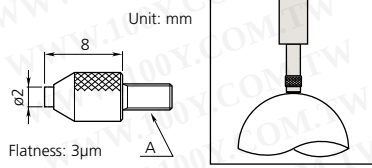
| L  | Order No. | A         |
|----|-----------|-----------|
| 8  | 131365    | M2.5x0.45 |
| 10 | 21AAA340  | M2.5x0.45 |
| 8  | 133017    | #4-48UNF  |



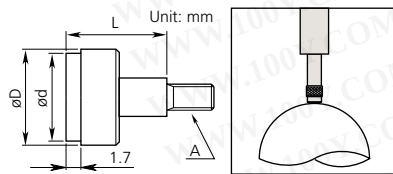
| D    | L    | Order No. | A         |
|------|------|-----------|-----------|
| 10   | 10   | 101117    | M2.5x0.45 |
| 15   | 10   | 21AAA341  | M2.5x0.45 |
| 20   | 10   | 21AAA342  | M2.5x0.45 |
| 25   | 10   | 21AAA343  | M2.5x0.45 |
| 20   | 10   | 21AAA344  | M2.5x0.45 |
| 12.7 | 9.53 | 101188    | #4-48UNF  |
| 9.53 | 9.53 | 101189    | #4-48UNF  |

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## Flat Points (Carbide)

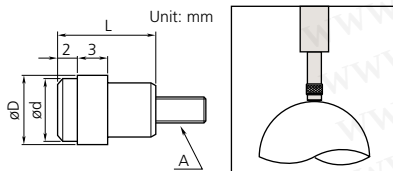


| Order No. | A         |
|-----------|-----------|
| 120056    | M2.5x0.45 |



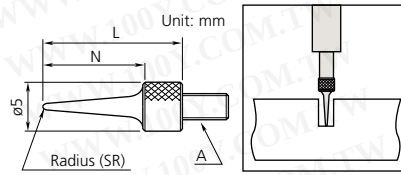
| D    | d    | L  | Order No. | A         |
|------|------|----|-----------|-----------|
| 5.2  | 4.3* | 5  | 120041    | M2.5x0.45 |
| 7    | 6.5* | 10 | 120042    | M2.5x0.45 |
| 10.5 | 9.5* | 10 | 120043    | M2.5x0.45 |
| 17   | 15** | 10 | 21AAA345  | M2.5x0.45 |
| 22   | 20** | 10 | 21AAA346  | M2.5x0.45 |
| 27   | 25** | 10 | 21AAA347  | M2.5x0.45 |
| 32   | 30** | 10 | 21AAA348  | M2.5x0.45 |

Flatness: \*3µm, \*\*5µm



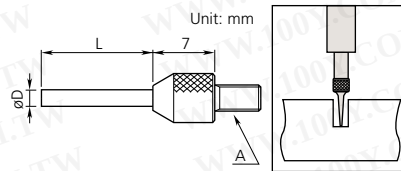
| D | d   | L  | Order No. | A         |
|---|-----|----|-----------|-----------|
| 7 | 6.4 | 10 | 137255    | M2.5x0.45 |
| 9 | 8   | 10 | 137399    | M2.5x0.45 |

## Lever Points



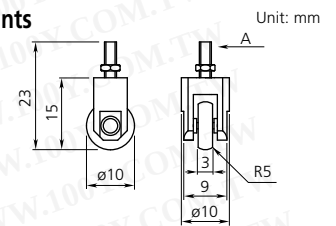
| N  | L  | SR  | Order No. | A         |
|----|----|-----|-----------|-----------|
| 11 | 15 | 0.4 | 101121    | M2.5x0.45 |
| 13 | 17 | 0.2 | 137413    | M2.5x0.45 |
| 21 | 25 | 0.4 | 21AAA255  | M2.5x0.45 |
| 31 | 35 | 0.4 | 21AAA256  | M2.5x0.45 |

## Needle Points (Carbide)



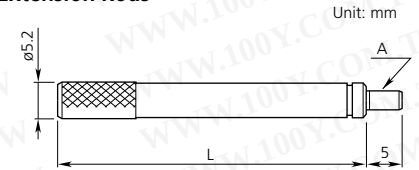
| D    | L  | Order No. | A         |
|------|----|-----------|-----------|
| 0.45 | 3  | 120066    | M2.5x0.45 |
| 0.45 | 5  | 21AAA329  | M2.5x0.45 |
| 1    | 3  | 120065    | M2.5x0.45 |
| 1    | 5  | 21AAA330  | M2.5x0.45 |
| 1    | 8  | 21AAA331  | M2.5x0.45 |
| 1    | 10 | 21AAA332  | M2.5x0.45 |
| 1    | 20 | 21AAA333  | M2.5x0.45 |
| 1    | 40 | 21AAA334  | M2.5x0.45 |
| 1.5  | 5  | 21AAA335  | M2.5x0.45 |
| 1.5  | 10 | 21AAA336  | M2.5x0.45 |
| 1.5  | 13 | 120064    | M2.5x0.45 |
| 1.5  | 20 | 21AAA337  | M2.5x0.45 |
| 1.5  | 40 | 21AAA338  | M2.5x0.45 |
| 2    | 8  | 137257    | M2.5x0.45 |
| 2    | 18 | 21AAA257  | M2.5x0.45 |
| 2    | 28 | 21AAA258  | M2.5x0.45 |
| 2    | 40 | 21AAA339  | M2.5x0.45 |

## Roller Points



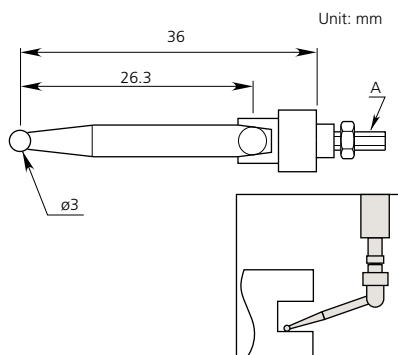
| Order No. | A         |
|-----------|-----------|
| 901954    | M2.5x0.45 |
| 901991    | #4-48UNF  |

## Extension Rods



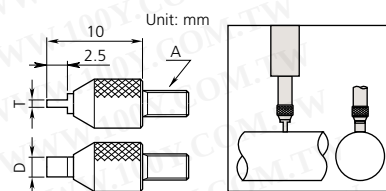
| L   | Order No. | A         |
|-----|-----------|-----------|
| 10  | 303611    | M2.5x0.45 |
| 15  | 21AAA259A | M2.5x0.45 |
| 20  | 303612    | M2.5x0.45 |
| 25  | 21AAA259B | M2.5x0.45 |
| 30  | 303613    | M2.5x0.45 |
| 35  | 21AAA259C | M2.5x0.45 |
| 40  | 21AAA259D | M2.5x0.45 |
| 45  | 21AAA259E | M2.5x0.45 |
| 50  | 21AAA259F | M2.5x0.45 |
| 55  | 21AAA259G | M2.5x0.45 |
| 60  | 304146    | M2.5x0.45 |
| 65  | 21AAA259H | M2.5x0.45 |
| 70  | 21AAA259J | M2.5x0.45 |
| 75  | 21AAA259L | M2.5x0.45 |
| 80  | 21AAA259M | M2.5x0.45 |
| 90  | 304147    | M2.5x0.45 |
| 100 | 303614    | M2.5x0.45 |
| 1"  | 301655    | #4-48UNF  |
| 2"  | 301657    | #4-48UNF  |
| 4"  | 301659    | #4-48UNF  |

## Lever Points



| Order No. | A         |
|-----------|-----------|
| 900391    | M2.5x0.45 |
| 900393    | #4-48UNF  |

## Blade Points (Carbide)



| T   | W | Order No. | A         |
|-----|---|-----------|-----------|
| 0.4 | 2 | 120061    | M2.5x0.45 |
| 0.6 | 2 | 120062    | M2.5x0.45 |
| 1   | 4 | 120063    | M2.5x0.45 |

## Interchangeable Contact Point Set (M2.5x0.45)

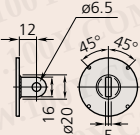
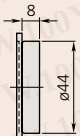
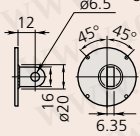
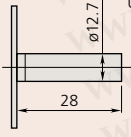
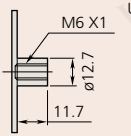
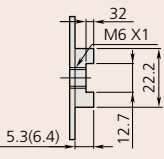
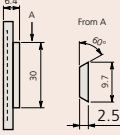
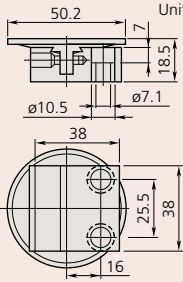


| Order No. | Components                |
|-----------|---------------------------|
| 7822      | Flat Point (131365, 5mm)  |
|           | Flat Point (101117, 10mm) |
|           | Needle Point (101121)     |
|           | Spherical Point (101119)  |
|           | Shell Type Point (101118) |
|           | Shell Type Point (101387) |

# Back

## Optional Accessory for Digimatic and Dial Indicators

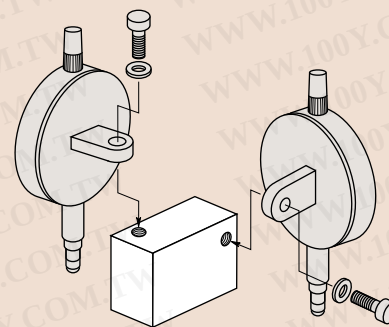
### SPECIFICATIONS

| Description                  |                                                                                                 | Order No.                                                                                                                  |                                                                                                      |                                                        |
|------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
|                              |                                                                                                 | Series 1<br>(ø41mm)                                                                                                        | Series 2<br>(ø57mm)                                                                                  | Series 3, 4<br>(ø77, 91mm)                             |
| Flat Back                    | Unit: mm<br>   | <b>101211:</b> a=2.2<br><b>136872:</b> for water-proof type<br><b>191559:</b> for 1911, 1913-10<br><b>137906:</b> for 1003 | <b>101039:</b> a=2.5<br><b>21AZB231:</b> for water-proof of S type                                   | <b>100836:</b> a=3.0                                   |
| Lug-on-Center Back           | Unit: mm<br>   | <b>101210:</b> metric type<br><b>101307:</b> inch type<br><b>190561:</b> for 1911, 1913-10<br><b>137905:</b> for 1003      | <b>101040:</b> metric type<br><b>101306:</b> inch type<br><b>21AZB230:</b> for water-proof of S type | <b>100691:</b> metric type<br><b>100797:</b> inch type |
| Magnetic Back                | Unit: mm<br>   | Special order                                                                                                              | 900928                                                                                               | 900929                                                 |
| Back with Offset Lug         | Unit: mm<br>  | Special order                                                                                                              | 101167                                                                                               | 100837                                                 |
| Back with Post               | Unit: mm<br> | <b>193172:</b> Order-to-made                                                                                               | 101169                                                                                               | 100839                                                 |
| Back with Screw Mount        | Unit: mm<br> | <b>193173:</b> M6x1, Order-to-made<br><b>193174:</b> #1/4-28UNF, Order-to-made                                             | <b>136023:</b> M6x1<br><b>193174:</b> #1/4-28UNF                                                     | <b>136024:</b> M6x1<br><b>100840:</b> #1/4-28UNF       |
| Adjustable Back              | Unit: mm<br> | <b>136025:</b> M6x1<br><b>129721:</b> #1/4-28UNF                                                                           | <b>136026:</b> M6x1<br><b>101168:</b> #1/4-28UNF)                                                    | <b>136027:</b> M6x1<br><b>100838:</b> #1/4-28UNF       |
| Back with Dovetail           | Unit: mm<br> | —                                                                                                                          | 900008                                                                                               | Special order                                          |
| Back with Adjustable Bracket | Unit: mm<br> | —                                                                                                                          | 901963                                                                                               | —                                                      |

There are two ways to support Digimatic and dial indicators; by either holding the stem or the lug on the back of the indicator. The back of the indicator may need to be replaced for special applications. A wide variety of backs are available for Mitutoyo Digimatic and dial indicators.

勝特力材料 886-3-5753170  
 胜特力电子(上海) 86-21-54151736  
 胜特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

### Application



# Spindle Lifting Lever and Cable

Optional Accessory for Digimatic and Dial Indicators

## Spindle Lifting Lever

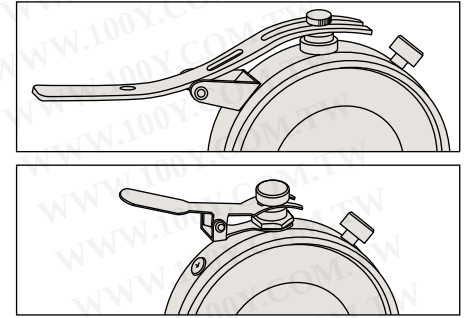
- The Spindle Lifting Lever is attached to the top end of the spindle for improved inspection efficiency when using a dial indicator mounted on a stand.

### 21BZA205

Use for Series 1 dial indicators.



## Application



### 21AZB149

Use for S type Series 2, 3, and 4 dial indicators (up to 10mm/.4").



### 902011

Use for Series 2 dial indicators (up to 10mm/.4" range).



### 21AZB150

Use for S type Series 2 and 3 dial indicators (from 10mm/.4" up to 20mm/.8").



### 902100

Use for Series 2 dial indicators (up to 10mm/.4" range).



### 903424

Use for Series 2 dial indicators (up to 20mm/.8" range) and Series 3 and 4 dial indicators (up to 10mm/.4" range).



## Spindle Lifting Cable

901975: with auto-stop function

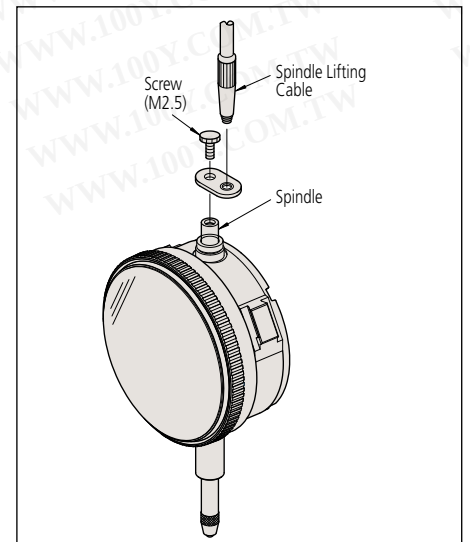
540774: without auto-stop function

Lifting range: 10mm

Cable length: 300mm



## Application



## Spindle Lifting Knob

137693

Applicable spindle diameter; 4.8mm



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# Color Spindle Cap

## Optional Accessory for Digimatic and Dial Indicators

8 colors of spindle caps are available for dial indicators with a range of 10mm or less.



### SPECIFICATIONS

| Color     | Order No.<br>(normal) | Order No.<br>(water-resistant) |
|-----------|-----------------------|--------------------------------|
| Black     | 193051                | 193595                         |
| White     | 193051W               | 193595W                        |
| Red       | 193051R               | 193595R                        |
| Green     | 193051G               | 193595G                        |
| Blue      | 193051B               | 193595B                        |
| Yellow    | 193051Y               | 193595Y                        |
| Orange    | 193051D               | 193595D                        |
| Pink      | 193051P               | 193595P                        |
| Dark blue | 193051S               | 193595S                        |

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# Limit Sticker

## Optional Accessory for Digimatic and Dial Indicators

### FEATURES

- Stuck on the dial face or crystal of a Series 2 dial indicator (55.6mm or 57mm bezel dia.) to indicate tolerance limits.



136420: Red (10-sheet/set)



136421: Green (10-sheet/set)



136422: Yellow (10-sheet/set)

# Dial Indicator Repair Tool Kit

Optional Accessory for Digimatic and Dial Indicators

## Set Configuration

|         |                                   |
|---------|-----------------------------------|
| 901171: | Molykote (lubricant)              |
| 901172: | Lubricating oil                   |
| 901173: | Screwdriver (Phillips)            |
| 901174: | Screwdriver (Phillips/flat blade) |
| 129729: | Tweezers                          |
| 901175: | Pin-vise                          |
| 901176: | Brush                             |
| 901177: | Brush                             |
| 901177: | Brush                             |
| 901178: | Hammer                            |
| 129730: | Spindle rest                      |
| 129731: | Pin rest                          |
| 901179: | Nippers                           |
| 901180: | Pliers                            |
| 901181: | Hand remover                      |
| 129732: | Pin remover                       |
| 129733: | Punch                             |
| 129734: | Bearing adjuster                  |
| 129735: | Pinion rest                       |
| 129736: | Reamer $\phi 1$                   |
| 193702: | Reamer $\phi 0.6$                 |
| 901182: | Case                              |

Mitutoyo offers a tool set designed to let you perform simple repairs to your Mitutoyo dial indicator, and a device that lets you reset the indicator crystals.



7823

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# Dial Indicator Crystal Setter

Optional Accessory for Digimatic and Dial Indicators

## FEATURES

- Used for fitting a crystal on dial indicators, dial test indicators, and dial calipers.



7000

With 8 sizes of crystal setting pads