

# Standard Digital Indicator ABS Digimatic Indicator ID-C

Catalog No. E4330-543



Digital indicators offer dramatically improved readability, usability and functionality

Find Quality Products Online at:

[www.GlobalTestSupply.com](http://www.GlobalTestSupply.com)

[sales@GlobalTestSupply.com](mailto:sales@GlobalTestSupply.com)

# Digital indicators that offer dramatically improved ease of **ABS Digimatic Indicator ID-C**

The Nakatsugawa plant is in the central industrial park of leafy Nakatsugawa city, in the Gifu prefecture. This plant specializes in manufacturing sensor products and handles the complete development-to-production cycle for measuring instruments such as dial gages, test indicators, Digimatic indicators, and bore gages. It was opened in 1997 as the 12th Mitutoyo plant in Japan. Using its state-of-the-art production techniques and facilities, this plant continues to provide Mitutoyo products that are praised around the world and used with confidence.



543-390B

**ABSOLUTE®**



**ABSOLUTE®**



543-470B



**ABSOLUTE®**



543-490B

ABS Digimatic indicator ID-C is a standard digital indicator. A large LCD incorporating 11mm characters (existing products: 8.5mm) is used to improve visibility, and three large, easy-to-press buttons are used in the design to make operations easier to perform. In addition, this affordable product has various measurement functions, including the ability to perform scaling calculations, judge tolerance, hold data, and perform general comparison measurements.

Examples of use



**Mitutoyo**

Find Quality Products Online at:

[www.GlobalTestSupply.com](http://www.GlobalTestSupply.com)

[sales@GlobalTestSupply.com](mailto:sales@GlobalTestSupply.com)

# reading measurement values, usability and functionality

## 1. Large LCD

The large LCD incorporates 11mm characters giving 1.5 times the character area of existing products (which display 8.5mm characters) making measurement values much easier to read.



Actual size

## 2. Three large buttons

The popular three-large-button design, which is used in products such as the ABS coolant proof Digimatic indicator ID-N/ID-B, makes buttons easier to press and operations easier to perform.



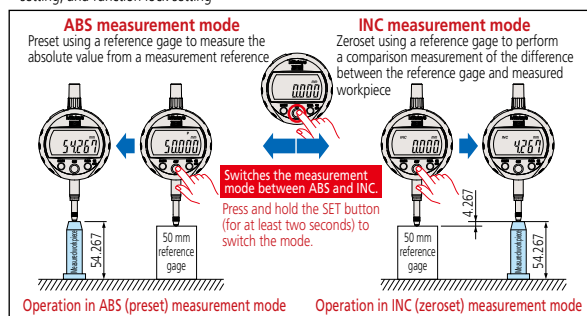
### • Parameter setting mode

Count direction switching, tolerance judgment setting, resolution switching, scale factor setting, and function lock setting

### • Power switch

• Data output (when connected to an external device)  
• Data hold (when no external device is connected)

• Switches between the ABS (preset) and INC (zeroset) measurement modes



## 3. Expanded lifting capability

The lifting function that moves the spindle up and down has been expanded to improve work efficiency when using the ID-C mounted on a stand.

For models that have a 12.7mm measuring range, a lifting lever (special accessory) can be mounted on the left or right side, improving work efficiency and smoothness of movement.

A lifting cable (special accessory) provides a maximum of approximately 25.4mm of spindle movement (twice that of existing models). So for models that have a 12.7mm or 25.4mm measuring range, the spindle can be moved through the entire measuring range. (Applied to models that have a 50.8mm measuring range, the spindle can be retracted by approximately 25.4mm from the extended position.)

Lifting knob (special accessory)



Lifting lever (finger hook)

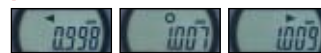
Standard accessory (only for models that have a measuring range of 25.4mm or 50.8mm)

If dust or coolant gets into the gap between the spindle and main unit while using the lifting knob, the spindle travel may become rough or the indicator may fail to operate. Therefore, avoid using the ID-C in environments containing dust or

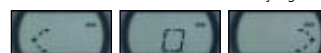
## 4. Functions that support measurement

The ID-C has various functions, including the ability to hold data, output data, switch the measuring direction, judge tolerance, change the scale factor, and a lock to prevent misoperation.

(For details, see page 5.)



Measurement value and tolerance judgment



Enlarged display of the tolerance judgment result

## 5. 330° rotary display

The display can be rotated 330°, allowing use at a position where you can easily read the measurement value.



## 6. Application products for one-touch quick measurement

Various application products are available that enable you to perform one-touch quick measurement of the thickness of small parts, papers, felt, lenses, and pipes, as well as the depth of narrow grooves on cylindrical workpieces, groove depth, and steps.

(For details, see pages 6 and 7.)

ABS Digimatic thickness gage



ABS Digimatic depth gage



ABS Digimatic upright gage



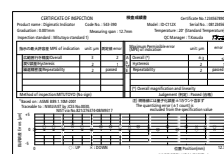
## 7. The ABS (ABSOLUTE) sensor

The original Mitutoyo ABS (ABSOLUTE) sensor, which is capable of relocating the origin even after turning the power off, enables you to quickly start multi-point measurement. Also, the ABS measurement mode can be restored even after measurement in the INC mode, where zerosetting is possible at any position, improving work efficiency.



## 8. Inspection certificate provided as standard

Mitutoyo provides an inspection certificate that includes inspection data as standard to guarantee that every product shipped is of high quality and safe to use. Upon request, we can also calibrate purchased measuring instruments and issue a calibration certificate that proves traceability to national (or international) standards for a fee. To minimize calibration uncertainty as much as possible, both the inspection certificate and calibration certificate are issued after measurement using dedicated testers developed with advanced Mitutoyo measurement technologies. Note that the inspection certificate cannot be used to obtain a calibration certificate because the former does not indicate the date of purchase.



# ABS Digimatic Indicator ID-C

## SPECIFICATIONS

### Metric ISO/JIS Type

| Order No.                 |          | Measuring range | Accuracy**1 | Hysteresis* | Repeatability* | Measuring force             | Mass | Remarks             |
|---------------------------|----------|-----------------|-------------|-------------|----------------|-----------------------------|------|---------------------|
| Resolution 0.001mm/0.01mm |          |                 |             |             |                |                             |      |                     |
| 543-390                   | 543-390B | 12.7mm          | 0.003mm     | 0.002mm     | 0.002mm        | 1.5N or less                | 170g | —                   |
| 543-394                   | 543-394B | 12.7mm          | 0.003mm     | 0.002mm     | 0.002mm        | 0.7, 0.6, 0.4N or less      | 170g | Low measuring force |
| —                         | 543-470B | 25.4mm          | 0.003mm     | 0.002mm     | 0.002mm        | 1.8N or less                | 190g | —                   |
| —                         | 543-490B | 50.8mm          | 0.005mm     | 0.002mm     | 0.002mm        | 2.3N or less                | 260g | —                   |
| Resolution 0.01mm         |          |                 |             |             |                |                             |      |                     |
| 543-400                   | 543-400B | 12.7mm          | 0.02mm      | 0.02mm      | 0.01mm         | 0.9N or less                | 170g | —                   |
| 543-404                   | 543-404B | 12.7mm          | 0.02mm      | 0.02mm      | 0.01mm         | 0.5, 0.4, 0.3, 0.2N or less | 170g | Low measuring force |
| —                         | 543-474B | 25.4mm          | 0.02mm      | 0.02mm      | 0.01mm         | 1.8N or less                | 190g | —                   |
| —                         | 543-494B | 50.8mm          | 0.04mm      | 0.02mm      | 0.01mm         | 2.3N or less                | 260g | —                   |

### Inch/Metric ISO/JIS Type and ANSI/AGD Type

| Order No.                                       |          | Measuring range | Accuracy**1      | Hysteresis*     | Repeatability*  | Measuring force             | Mass | Remarks             |
|-------------------------------------------------|----------|-----------------|------------------|-----------------|-----------------|-----------------------------|------|---------------------|
| Resolution .00005"/.0001"/.0005"/0.001mm/0.01mm |          |                 |                  |                 |                 |                             |      |                     |
| 543-391                                         | 543-391B | .5"             | ±.00010"/0.003mm | .00010"/0.002mm | .00010"/0.002mm | 1.5N or less                | 170g | —                   |
| 543-392                                         | 543-392B | .5"             | ±.00010"/0.003mm | .00010"/0.002mm | .00010"/0.002mm | 1.5N or less                | 170g | —                   |
| 543-395                                         | 543-395B | .5"             | ±.00010"/0.003mm | .00010"/0.002mm | .00010"/0.002mm | 0.7, 0.6, 0.4N or less      | 170g | Low measuring force |
| 543-396                                         | 543-396B | .5"             | ±.00010"/0.003mm | .00010"/0.002mm | .00010"/0.002mm | 0.7, 0.6, 0.4N or less      | 170g | Low measuring force |
| —                                               | 543-471B | 1"              | ±.00010"/0.003mm | .00010"/0.002mm | .00010"/0.002mm | 1.8N or less                | 190g | —                   |
| —                                               | 543-472B | 1"              | ±.00010"/0.003mm | .00010"/0.002mm | .00010"/0.002mm | 1.8N or less                | 190g | —                   |
| —                                               | 543-491B | 2"              | ±.00020"/0.005mm | .00010"/0.002mm | .00010"/0.002mm | 2.3N or less                | 260g | —                   |
| —                                               | 543-492B | 2"              | ±.00020"/0.005mm | .00010"/0.002mm | .00010"/0.002mm | 2.3N or less                | 260g | —                   |
| Resolution .0005"/0.01mm                        |          |                 |                  |                 |                 |                             |      |                     |
| 543-401                                         | 543-401B | .5"             | ±.0010"/0.02mm   | .0010"/0.02mm   | .0005"/0.01mm   | 0.9N or less                | 170g | —                   |
| 543-402                                         | 543-402B | .5"             | ±.0010"/0.02mm   | .0010"/0.02mm   | .0005"/0.01mm   | 0.9N or less                | 170g | —                   |
| 543-405                                         | 543-405B | .5"             | ±.0010"/0.02mm   | .0010"/0.02mm   | .0005"/0.01mm   | 0.5, 0.4, 0.3, 0.2N or less | 170g | Low measuring force |
| 543-406                                         | 543-406B | .5"             | ±.0010"/0.02mm   | .0010"/0.02mm   | .0005"/0.01mm   | 0.5, 0.4, 0.3, 0.2N or less | 170g | Low measuring force |
| —                                               | 543-475B | 1"              | ±.0010"/0.02mm   | .0010"/0.02mm   | .0005"/0.01mm   | 1.8N or less                | 190g | —                   |
| —                                               | 543-476B | 1"              | ±.0010"/0.02mm   | .0010"/0.02mm   | .0005"/0.01mm   | 1.8N or less                | 190g | —                   |
| —                                               | 543-495B | 2"              | ±.0015"/0.04mm   | .0010"/0.02mm   | .0005"/0.01mm   | 2.3N or less                | 260g | —                   |
| —                                               | 543-496B | 2"              | ±.0015"/0.04mm   | .0010"/0.02mm   | .0005"/0.01mm   | 2.3N or less                | 260g | —                   |

□ : ANSI/AGD Type

Note) Products with an Order No. suffixed "B" have a flat back, and other models have a back with a lug.

\* Overall hysteresis and repeatability specifications are valid for normal measurement at 20°C, and the quantizing error of ±1 count is excluded.

## COMMON SPECIFICATIONS

- Display: 6-digit LCD, sign
- Contact point: Spherical tip SR = 1.5mm (carbide tipped),  
part No. 901312 (for ISO/JIS Type)  
part No. 21BZB005 (for ANSI/AGD Type)
- Spindle orientation for measurement:
  - Standard model that has a 12.7mm measuring range: No restrictions
  - Standard model that has a 25.4mm or 50.8mm measuring range: Normally at any position between the spindle pointing vertically downward to the spindle horizontal. To perform measurement with the spindle pointing above the horizontal requires a reverse-position coil spring (special accessory).
  - Low measuring force models: See 'Setting measuring force on low measuring force models' on page 4.
- Position detection method: Capacitance type absolute linear encoder
- Battery: SR44 (silver oxide button cell) × 1, part No. 938882
- Battery life: Approximately 7,000 hours of continuous use
- Maximum response speed: Not restricted (except for scanning measurement)
- Service temperature range: 0 to 40°C
- Storage temperature range: 0 to 60°C

**Mitutoyo**

Find Quality Products Online at:

[www.GlobalTestSupply.com](http://www.GlobalTestSupply.com)

[sales@GlobalTestSupply.com](mailto:sales@GlobalTestSupply.com)

•543-404/404B/405/405B/406/406B

Note) Operation using configurations other than shown above is not guaranteed.

Note) Operation using configurations other than shown above is not guaranteed.

ISO/JIS Type



### 12.7mm range models

### 25.4mm range models



## Functions

- Zero-setting function (INC measurement mode)
- Preset function (ABS scale origin setting)

The preset value can be changed easily by using the SET (digit movement) and MODE (value change) buttons.



- Switching the direction

The measuring direction can be reversed.

- Judging the tolerance

Performs judgment (OK, +NG, -NG) according to the set upper and lower limit values and displays the result as a symbol. Enlarged display of the OK and NG symbols is possible.



Measurement value and tolerance judgment

Enlarged display of the tolerance judgment result

- 330° rotary display



- Resolution switching (For 0.001mm or .00005" resolution models)

Models with 0.001mm resolution are capable of displaying in 0.01mm resolution. Models with .00005" resolution are capable of displaying in .0001" and .0005" resolution. Select the resolution according to the application.



- Display value holding (when no external device is connected)



- Calculation:  $f(x) = Ax$

Mounting the ID-C on a measuring jig and setting the calculation factor (to any value) allows direct measurement without using a conversion table and improves measurement efficiency.



- Data output (when connected to an external device)

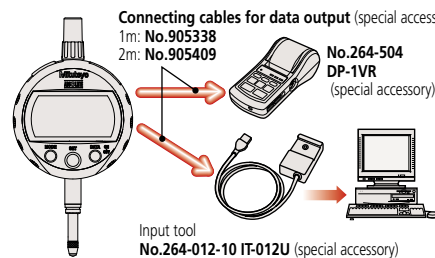
From the output terminal, measurement data can be output to a PC via a compact printer, Digimatic mini processor DP-1VR, or input tool by pressing the button below the display. Wireless transmission of measurement data to a PC can also be performed using the measurement data wireless communication system U-WAVE.



Connecting cables for data output (special accessory)

1m: No. 905338  
2m: No. 905409

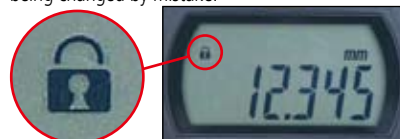
No. 264-504  
DP-1VR  
(special accessory)



Input tool  
No. 264-012-10 IT-012U (special accessory)

- Function locking

Ensures reliability of measurement by locking the settings to prevent preset function settings from being changed by mistake.



- Low battery voltage alarm
- Error alarm

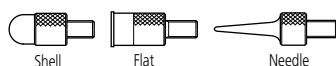
## Standard accessories

- Operation manual
- Inspection certificate
- ① Lifting lever (finger hook)  
(Only for models that have a 25.4mm or 50.8mm measuring range)
- Silver oxide button cell for the monitor: SR44 × 1  
Part No. 938882
- Weight (only for low measuring force models)

## Special accessories

- ② Lifting lever  
Part No. 21EZA198  
(for models that have a 12.7mm measuring range ISO/JIS Type)  
Part No. 21EZA199  
(for models that have a 12.7mm measuring range ANSI/ADG Type)
- ③ Lifting cable, part No. 540774
- ④ Lifting knob  
Part No. 21EZA105  
(for models that have a 12.7mm measuring range ISO/JIS Type)  
Part No. 21EZA150  
(for models that have a 12.7mm measuring range ANSI/ADG Type)  
Part No. 21EZA197  
(for models that have a 25.4mm measuring range)  
Part No. 21EZA200  
(for models that have a 50.8mm measuring range)

- Interchangeable contact points for Mitutoyo dial gages



Various types of contact points are available.

- Various backs for standard Mitutoyo (2 series) dial gages
- Reverse-position coil spring  
Part No. 02ACA571  
(for models that have a 25.4mm measuring range)  
Part No. 02ACA773  
(for models that have a 50.8mm measuring range)
- Connecting cable (1m), part No. 905338
- Connecting cable (2m), part No. 905409



- U-WAVE  
(measurement data wireless communication system)
- Digimatic mini processor DP-1VR No. 264-504
- Multiplexer MUX-10F, No. 264-002
- Display unit EC-101D, No. 542-007
- Input tool (USB keyboard signal conversion type)  
IT-012U, No. 264-012-10



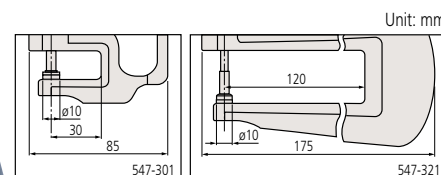
- Recommended stands
- ⑤ Dial gage stand, No. 7001 7002 7007
- ⑥ Granite comparator stand BSG-30, No. 215-154
- ⑦ Comparator stand BSC-30, No. 215-504
- ⑧ Comparator stand BSG-20, No. 215-151

# Application Products

## ABS Digimatic Thickness Gage



- For one-touch quick measurement of the thickness of small parts, papers, and felt
- Rust-free ceramic contact point and anvil (except No. 547-401)



### Metric ISO/JIS Type

| Order No. | Resolution | Measuring range | Throat depth | Contact point and anvil      | Parallelism of contact point and anvil | Accuracy | Measuring force |
|-----------|------------|-----------------|--------------|------------------------------|----------------------------------------|----------|-----------------|
| 547-301   | 0.01mm     | 0~10mm          | 30mm         | ø10mm flat                   | 10μm or less                           | ±20μm    | 1.5N or less    |
| 547-321   | 0.01mm     | 0~10mm          | 120mm        | ø10mm flat                   | 10μm or less                           | ±20μm    | 1.5N or less    |
| 547-401   | 0.001mm    | 0~12mm          | 21mm         | ø6.3mm flat (carbide tipped) | 3μm or less                            | ± 3μm    | 3.5N or less    |

### Inch/Metric ANSI/AGD Type

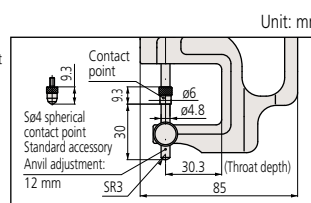
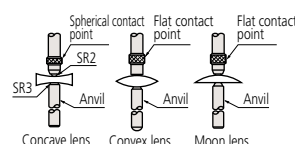
| Order No. | Resolution      | Measuring range | Throat depth | Contact point and anvil      | Parallelism of contact point and anvil | Accuracy | Measuring force |
|-----------|-----------------|-----------------|--------------|------------------------------|----------------------------------------|----------|-----------------|
| 547-300S  | .0005"/0.01mm   | 0~.4"/0~10mm    | 30mm         | ø10mm flat                   | .0005" or less                         | ±.001"   | 1.5N or less    |
| 547-320S  | .0005"/0.01mm   | 0~.4"/0~10mm    | 120mm        | ø10mm flat                   | .0005" or less                         | ±.001"   | 1.5N or less    |
| 547-400S  | .00005"/0.001mm | 0~.47"/0~12mm   | 21mm         | ø6.3mm flat (carbide tipped) | .0001" or less                         | ±.0001"  | 3.5N or less    |

- Note) 1. Changing the contact point requires total adjustment, including the main display unit. Contact Mitutoyo for advice.  
 2. The accuracy specification does not include the quantizing error of ±1 count.  
 3. Left-handed models can be supplied to special order.

## ABS Digimatic Lens Meter



- Designed for measuring the thickness of concavo-convex lenses and flat objects
- The thickness of flat objects can be measured by replacing the anvil.
- Includes a spherical contact point.



### Metric ISO/JIS Type

| Order No. | Resolution | Measuring range | Throat depth | Anvil adjustment | Accuracy      | Measuring force |
|-----------|------------|-----------------|--------------|------------------|---------------|-----------------|
| 547-313   | 0.01mm     | 0~10mm          | 30mm         | 12mm             | ±20μm or less | 1.5N or less    |

### Inch/Metric ANSI/AGD Type

| Order No. | Resolution    | Measuring range | Throat depth | Anvil adjustment | Accuracy       | Measuring force |
|-----------|---------------|-----------------|--------------|------------------|----------------|-----------------|
| 547-312S  | .0005"/0.01mm | 0~.4"/0~10mm    | 30mm         | 12mm             | ±.001" or less | 1.5N or less    |

- Note) The accuracy specification does not include the quantizing error of ±1 count. Left-handed models can be supplied to special order.

Mitutoyo

Find Quality Products Online at:

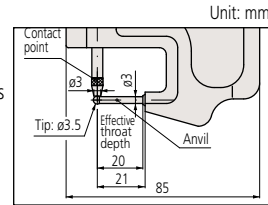
[www.GlobalTestSupply.com](http://www.GlobalTestSupply.com)

[sales@GlobalTestSupply.com](mailto:sales@GlobalTestSupply.com)

## ABS Digimatic Pipe Gage



- Designed for measuring the thickness of pipes and curved boards



### Metric ISO/JIS Type

| Order No. | Resolution | Measuring range | Throat depth | Minimum inside diameter of pipe | Accuracy      | Measuring force |
|-----------|------------|-----------------|--------------|---------------------------------|---------------|-----------------|
| 547-360   | 0.01mm     | 0~10mm          | 20mm         | ø3.5mm                          | ±20µm or less | 1.5N or less    |

### Inch/Metric ANSI/AGD Type

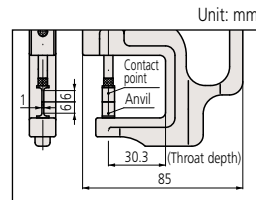
| Order No. | Resolution    | Measuring range | Throat depth | Minimum inside diameter of pipe | Accuracy       | Measuring force |
|-----------|---------------|-----------------|--------------|---------------------------------|----------------|-----------------|
| 547-361S  | .0005"/0.01mm | 0~.4"/0~10mm    | 20mm         | ø3.5mm                          | ±.001" or less | 1.5N or less    |

- Note) 1. Changing the contact point requires total adjustment, including the main display unit. Contact Mitutoyo for advice.  
2. The accuracy specification does not include the quantizing error of ±1 count.  
3. Left-handed models can be supplied to special order.

## ABS Digimatic Groove Gage



- Best suited for measuring the depth of narrow grooves on cylindrical workpieces
- The contact point and measuring face of the anvil are 1mm thick blade blades.



### Metric ISO/JIS Type

| Order No. | Resolution | Measuring range | Throat depth | Contact point and anvil dimensions (W x D) | Accuracy      | Measuring force |
|-----------|------------|-----------------|--------------|--------------------------------------------|---------------|-----------------|
| 547-315   | 0.01mm     | 0~10mm          | 30mm         | 6.5mm x 1mm                                | ±20µm or less | 1.5N or less    |

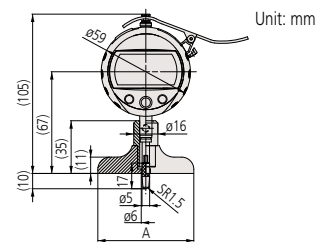
### Inch/Metric ANSI/AGD Type

| Order No. | Resolution    | Measuring range | Throat depth | Contact point and anvil dimensions (W x D) | Accuracy       | Measuring force |
|-----------|---------------|-----------------|--------------|--------------------------------------------|----------------|-----------------|
| 547-316S  | .0005"/0.01mm | 0~.4"/0~10mm    | 30mm         | 6.5mm x 1mm                                | ±.001" or less | 1.5N or less    |

- Note) 1. Changing the contact point requires total adjustment, including the main display unit. Contact Mitutoyo for advice.  
2. The accuracy specification does not include the quantizing error of ±1 count.  
3. Left-handed models can be supplied to special order.

## ABS Digimatic Depth Gage

- Suitable for measuring the depth of holes, narrow grooves, and steps.
- The lifting lever can be used either on the left or right sides.



### Metric ISO/JIS Type

| Order No. | Resolution | Measuring range | Stroke | Accuracy | Measuring force | Base Length | Width | Flatness    | Contact point: Carbide-tipped ball | Extension rods                    |
|-----------|------------|-----------------|--------|----------|-----------------|-------------|-------|-------------|------------------------------------|-----------------------------------|
| 547-211   | 0.01mm     | 0~200mm         | 12mm   | ±20µm    | 1.5N or less    | 63.5mm      | 16mm  | 5µm or less | 21JAA224                           | 5 pcs.<br>(10, 20, 30, 30, 100mm) |
| 547-212   |            |                 |        |          |                 | 101.6mm     |       |             |                                    |                                   |
| 547-251   | 0.001mm    |                 |        | ±5µm     | 1.5N or less    | 63.5mm      |       | 2µm or less |                                    |                                   |
| 547-252   |            |                 |        |          |                 |             |       |             |                                    |                                   |

### Inch/Metric ANSI/AGD Type

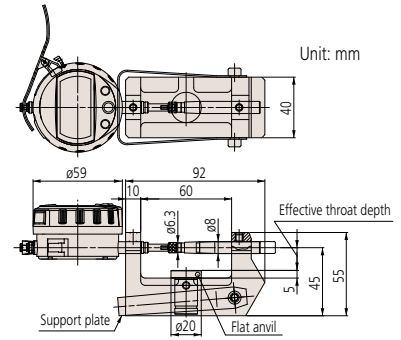
| Order No. | Resolution      | Measuring range | Stroke | Accuracy        | Measuring force | Base Length | Width | Flatness        | Contact point: Carbide-tipped ball | Extension rods           |
|-----------|-----------------|-----------------|--------|-----------------|-----------------|-------------|-------|-----------------|------------------------------------|--------------------------|
| 547-217S  | .0005"/0.01mm   | 0~8"            | .5"    | ±.001" or less  | 1.5N or less    | 2.5"        | .63"  | .0002" or less  | 21JAZA242                          | 4 pcs. (.5", 1", 2", 4") |
| 547-218S  | .0005"/0.01mm   | 0~8"            | .5"    | ±.001" or less  | 1.5N or less    | 4"          | .63"  | .0002" or less  |                                    | 4 pcs. (.5", 1", 2", 4") |
| 547-257S  | .00005"/0.001mm | 0~8"            | .5"    | ±.0002" or less | 1.5N or less    | 2.5"        | .63"  | .00008" or less |                                    | 4 pcs. (.5", 1", 2", 4") |
| 547-258S  | .00005"/0.001mm | 0~8"            | .5"    | ±.0002" or less | 1.5N or less    | 4"          | .63"  | .00008" or less |                                    | 4 pcs. (.5", 1", 2", 4") |

- Note) The accuracy specification does not include the quantizing error of ±1 count.



### ABS Digimatic Bench Gage

- The support plate allows easy reading by tilting the anvil.
- Carbide measuring faces (for the contact point and anvil)
- The lifting lever can be used either on the left or right sides.



Unit: mm

#### Metric ISO/JIS Type

| Order No. | Indicator stroke | Resolution | Workpiece height | Effective throat depth | Anvil adjustment | Accuracy      | Measuring force |
|-----------|------------------|------------|------------------|------------------------|------------------|---------------|-----------------|
| 547-064   | 12mm             | 0.01mm     | ø20mm            | 15mm                   | 13mm             | ±20µm or less | 1.5N or less    |

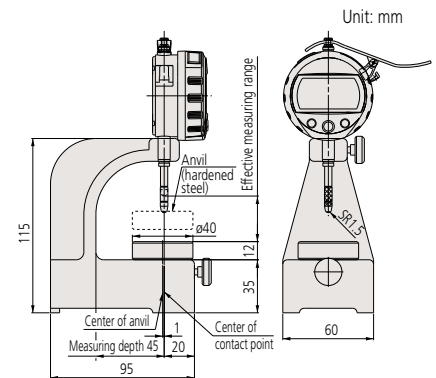
#### Inch/Metric ANSI/AGD Type

| Order No. | Indicator stroke | Resolution    | Remarks (contact point) | Effective throat depth | Workpiece height | Accuracy       | Measuring force |
|-----------|------------------|---------------|-------------------------|------------------------|------------------|----------------|-----------------|
| 547-066S  | .5"              | .0005"/0.01mm | .248" DIA flat type     | .59"                   | 1"               | ±.001" or less | 1.5N or less    |

Note) The accuracy specification does not include the quantizing error of ±1 count.

### ABS Digimatic Upright Gage

- Best suited for inspection of small parts at a site
- Carbide ball contact point
- The lifting lever that is a standard accessory for No. 547-054, 547-034S can be used either on the left or right sides.



Unit: mm

#### Metric ISO/JIS Type

| Order No. | Resolution | Measuring range | Anvil                | Workpiece height | Accuracy      | Measuring force |
|-----------|------------|-----------------|----------------------|------------------|---------------|-----------------|
| 547-054   | 0.01mm     | 12.7mm          | ø40mm (steel type)   | 30mm             | ±20µm or less | 1.5N or less    |
| 547-053   | 0.001mm    | 12.7mm          | ø50mm (ceramic type) |                  | ± 3µm or less |                 |
| 547-055   | 0.001mm    | 12.7mm          | ø40mm (steel type)   |                  | ± 3µm or less |                 |

#### Inch/Metric ANSI/AGD Type

| Order No. | Resolution      | Measuring range | Anvil                  | Workpiece height | Accuracy        | Measuring force |
|-----------|-----------------|-----------------|------------------------|------------------|-----------------|-----------------|
| 547-034S  | .0005"/0.01mm   | .5"             | 1.57" DIA steel type   | 1.2"             | ±.001" or less  | 1.5N or less    |
| 547-033S  | .00005"/0.001mm | .5"             | 1.97" DIA ceramic type | 1.2"             | ±.0001" or less |                 |
| 547-035S  | .00005"/0.001mm | .5"             | 1.57" DIA steel type   | 1.2"             | ±.0001" or less |                 |

- Note) 1. The lifting lever (part No. 21EZA198) is a standard accessory for 547-054.  
 2. The lifting lever (part No. 21EZA199) is a standard accessory for 547-034S.  
 3. The lifting cable (part No. 540774) is a standard accessory for 547-055, 547-033S, 547-035S.  
 4. The accuracy specification does not include the quantizing error of ±1 count.

- The ABS (ABSOLUTE) scale used in these products is a capacitance type absolute encoder. Its patent has been registered in Japan, the U.S., the U.K., Germany, and China.



## Various Digimatic Indicators

- ① **ID-C:** Standard Digital Indicator
- ② **ID-N/B:** waterproof, 35mm slim body with various functions
- ③ **ID-H:** infrared remote controller, high accuracy, and various functions
- ④ **ID-S:** cost-effective type that has basic functions
- ⑤ **ID-U1025:** general-purpose type that has a 25.4mm measuring range
- ⑥ **ID-C112RB:** has a built-in calculation function
- ⑦ **ID-C112A:** has a peak hold function
- ⑧ **ID-C112GB:** internal diameter measuring instrument dedicated to cylinder gages



Export permission by the Japanese government may be required for exporting our products according to the Foreign Exchange and Foreign Trade Law. Please consult our sales office near you before you export our products or you offer technical information to a nonresident.

|                                            |  |
|--------------------------------------------|--|
| Coordinate Measuring Machines              |  |
| Vision Measuring Systems                   |  |
| Form Measurement                           |  |
| Optical Measuring                          |  |
| Sensor Systems                             |  |
| Test Equipment and Seismometers            |  |
| Digital Scale and DRO Systems              |  |
| Small Tool Instruments and Data Management |  |

Note: All information regarding our products, and in particular the illustrations, drawings, dimensional and performance data contained in this pamphlet, as well as other

Find Quality Products Online at: [www.GlobalTestSupply.com](http://www.GlobalTestSupply.com)

[sales@GlobalTestSupply.com](mailto:sales@GlobalTestSupply.com)