

# D

## Depth Gages

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### MeasurLink<sup>®</sup> ENABLED

Data Management Software by Mitutoyo

#### Measurement Data Network System

MeasurLink<sup>®</sup> is a measurement data management system based on databases (SQL Server). You can build a network to manage the measurement results and measuring instruments simply by combining the required functions.

MeasurLink<sup>®</sup> is a registered trademark of Mitutoyo Corporation in Japan and Mitutoyo America Corporation in the United States.

### U-WAVE<sup>fit</sup>

#### Measurement Data Wireless Communication System

Bluetooth<sup>®</sup> communication enables wireless transfer of measurement data from Digimatic micrometers and callipers to PCs, smartphones, tablets and such other devices.



#### IP Codes

The code indicates the degree of protection against the ingress of foreign materials and water as defined in the IEC standard (IEC 60529). The number indicates the protection level. (Refer to page 3)



Dust- and  
Water-  
Protected

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ID 000040191

#### TÜV Rheinland Certification Marks

All products with the marks have passed the IP test carried out by the German accreditation organization, TÜV Rheinland.



#### Measuring Instruments Shipped with Inspection Certificate

Mitutoyo guarantees product quality as a leading precision measuring instrument manufacturer and ships measuring instruments with an inspection certificate that includes inspection data so that customers can use them with confidence.

### ABSOLUTE<sup>™</sup>

#### ABSOLUTE Linear Encoder

Mitutoyo developed the unique ABSOLUTE method to retain position information after the power is turned off. The origin is set once - thereafter the live position is displayed when the power is turned on.

# Depth Gage

## Depth Micrometer SERIES 329, 129 — Interchangeable Rod Type

- Interchangeable rods provide a wide measuring range.
- Data output function (329 Series) allows integration into statistical process control and measurement systems (refer to section A).



### SPECIFICATIONS

| Inch / Metric   |            |                       |           |                   |                    |                   |                                                                |                               |             |
|-----------------|------------|-----------------------|-----------|-------------------|--------------------|-------------------|----------------------------------------------------------------|-------------------------------|-------------|
| Order No.       | Range (in) | Resolution            | Base (in) | Accuracy          | Base Flatness (in) | Rod Flatness (in) | Parallelism between reference face and measuring rod face (in) | Zero point error of rods (in) | No. of rods |
| Digimatic (LCD) |            |                       |           |                   |                    |                   |                                                                |                               |             |
| 329-350-30      | 0 - 6      | 0.00005 in / 0.001 mm | 4x0.63    | 0.00015 in / 3 µm | 0.00008            | 0.000012          | 0.00035                                                        | ±0.0002                       | 6           |
| 329-351-30      | 0 - 12     | 0.0001 in / 0.001 mm  |           |                   |                    |                   | 0.0005                                                         | ±0.0003                       | 12          |

| Metric          |            |                 |           |          |                    |                   |                                                                |                               |             |
|-----------------|------------|-----------------|-----------|----------|--------------------|-------------------|----------------------------------------------------------------|-------------------------------|-------------|
| Order No.       | Range (mm) | Resolution (mm) | Base (mm) | Accuracy | Base Flatness (µm) | Rod Flatness (µm) | Parallelism between reference face and measuring rod face (µm) | Zero point error of rods (µm) | No. of rods |
| Digimatic (LCD) |            |                 |           |          |                    |                   |                                                                |                               |             |
| 329-250-30      | 0 - 150    | 0.001           | 101.6x16  | 3        | 2                  | 0.3               | 7                                                              | ±4                            | 6           |
| 329-251-30      | 0 - 300    |                 |           |          |                    |                   | 10                                                             | ±6                            | 12          |

| Inch      |            |                 |           |          |                    |                   |                                                                |                               |             |
|-----------|------------|-----------------|-----------|----------|--------------------|-------------------|----------------------------------------------------------------|-------------------------------|-------------|
| Order No. | Range (in) | Graduation (in) | Base (in) | Accuracy | Base Flatness (in) | Rod Flatness (in) | Parallelism between reference face and measuring rod face (in) | Zero point error of rods (in) | No. of rods |
| Analog    |            |                 |           |          |                    |                   |                                                                |                               |             |
| 129-129   | 0 - 2      | 0.001           | 4x0.63    | 0.00015  | 0.00008            | 0.000012          | 0.00025                                                        | ±0.00015                      | 2           |
| 129-126   | 0 - 3      |                 | 2.5x0.63  |          |                    |                   |                                                                |                               | 3           |
| 129-130   | 0 - 3      |                 | 4x0.63    |          |                    |                   | 0.00030                                                        | ±0.00020                      | 4           |
| 129-127   | 0 - 4      |                 | 2.5x0.63  |          |                    |                   |                                                                |                               | 4           |
| 129-131   | 0 - 4      |                 | 4x0.63    |          |                    |                   | 0.00035                                                        | ±0.00030                      | 6           |
| 129-128   | 0 - 6      |                 | 2.5x0.63  |          |                    |                   |                                                                |                               | 6           |
| 129-132   | 0 - 6      |                 | 4x0.63    |          |                    |                   | 0.00050                                                        | ±0.00030                      | 12          |
| 129-149   | 0 - 12     |                 | 2.5x0.63  |          |                    |                   |                                                                |                               | 12          |
| 129-150   | 0 - 12     |                 | 4x0.63    |          |                    |                   | 0.00030                                                        | ±0.00020                      | 4           |
| 129-331*  | 0 - 4      |                 | 2.4x0.63  |          |                    |                   |                                                                |                               | 6           |
| 129-332*  | 0 - 6      |                 | 2.4x0.63  |          |                    |                   | 0.00035                                                        |                               |             |

\* Half Base models

| Metric    |            |                 |           |          |                    |                   |                                                                |                               |             |    |
|-----------|------------|-----------------|-----------|----------|--------------------|-------------------|----------------------------------------------------------------|-------------------------------|-------------|----|
| Order No. | Range (mm) | Graduation (mm) | Base (mm) | Accuracy | Base Flatness (μm) | Rod Flatness (μm) | Parallelism between reference face and measuring rod face (μm) | Zero point error of rods (μm) | No. of rods |    |
| Analog    |            |                 |           |          |                    |                   |                                                                |                               |             |    |
| 129-154   | 0 - 25     | 0.01            | 63.5×16   | 3        | 1.3                | 0.3               | 5                                                              | ±3                            | 1           |    |
| 129-155   |            |                 | 101.6×16  |          | 2                  |                   |                                                                |                               | 2           |    |
| 129-109   | 63.5×16    |                 | 1.3       |          | 2                  |                   |                                                                |                               | 6           | ±4 |
| 129-113   | 101.6×16   |                 | 2         |          | 3                  |                   |                                                                |                               |             |    |
| 129-110   | 63.5×16    |                 | 1.3       |          | 7                  |                   | ±6                                                             |                               |             |    |
| 129-114   | 101.6×16   |                 | 2         |          |                    |                   |                                                                | 4                             |             |    |
| 129-111   | 63.5×16    |                 | 1.3       |          |                    |                   |                                                                | 10                            | ±6          |    |
| 129-115   | 101.6×16   |                 | 2         |          |                    |                   |                                                                |                               |             | 6  |
| 129-112   | 63.5×16    |                 | 1.3       |          | 10                 |                   | ±6                                                             |                               |             |    |
| 129-116   | 101.6×16   |                 | 2         |          |                    |                   |                                                                |                               |             | 6  |
| 129-152   | 63.5×16    |                 | 1.3       |          |                    |                   |                                                                | 10                            | ±6          |    |
| 129-153   | 101.6×16   |                 | 2         |          |                    |                   |                                                                |                               |             | 12 |

- Power source: SR44 battery (1 pc.), **938882** included as standard (for operational checks)
- Battery life\*: Approx. 2.4 years under normal use
- Standard Accessories: **301336** Spanner, **04GAA274** Spanner, **202863** Hex-Spanner

### Functions of series 329

**Origin point setting** (ABS measurement system):  
Resets the ABS origin at the current spindle position to the minimum value of the measuring range and switches to ABS mode.

**Zero-setting** (INC measurement system):  
A brief press on the ZERO/ABS button sets display to zero at the current spindle position and switches to the incremental (INC) measuring mode. A longer press resets to the ABS measuring mode.

**Hold:**  
Pressing the HOLD button freezes the current value in the display. This function is useful for preserving a measurement in situations of poor visibility where the instrument must be moved away from the workpiece before the reading can be recorded.

**Data output:**  
Models equipped with this function have an output port for transferring measurement data to a Statistical Process Control (SPC) system.

**Auto power ON/OFF:**  
The reading on the LCD disappears after this instrument is idle for about 20 minutes, but the reading and measurement mode are retained. Turning the spindle causes the reading to reappear.

**Error alarm:**  
In case of an overflow on the LCD or a computing error, an error message appears on the LCD, and the measuring function stops. This prevents an instrument from giving an erroneous reading. Also, when the battery voltage drops to a certain level, the low-battery-voltage alarm annunciator appears well before the micrometer becomes unusable.

**Function lock:**  
This function allows the PRESET (origin point setting) function and the ZERO (zero-setting) function to be locked to prevent these points being reset accidentally.

### Optional Accessories

| Order No.        | Type   | Description                                                                    |
|------------------|--------|--------------------------------------------------------------------------------|
| <b>264-020</b>   | —      | USB Input Tool Series<br>USB Keyboard Signal Conversion<br>Type <b>IT-020U</b> |
| <b>05CZA662</b>  | B      | Connection cable (1 m)                                                         |
| <b>05CZA663</b>  | B      | Connection cable (2 m)                                                         |
| <b>06AFM380B</b> | B      | USB Input Tool Direct (2 m)                                                    |
| <b>02AZD730G</b> | IP67   | <b>U-WAVE-T</b>                                                                |
| <b>02AZD880G</b> | Buzzer | <b>U-WAVE-T</b>                                                                |
| <b>02AZE200</b>  | —      | <b>U-WAVE-T</b> mounting bracket                                               |
| <b>02AZD790B</b> | B      | Connection cable for<br><b>U-WAVE-T</b> (160 mm)                               |
| <b>02AZE140B</b> | B      | Connection cable for<br><b>U-WAVE-T</b><br>For foot switch                     |
| <b>264-622</b>   | IP67   | <b>U-WAVE-TM</b>                                                               |
| <b>264-623</b>   | Buzzer | <b>U-WAVE-TM</b>                                                               |
| <b>264-626</b>   | IP67   | <b>U-WAVE-TMB</b>                                                              |
| <b>264-627</b>   | Buzzer | <b>U-WAVE-TMB</b>                                                              |
| <b>02AZF310</b>  | IP67   | Connecting unit for<br><b>U-WAVE-TM</b>                                        |



# Depth Gage

## Depth Micrometer SERIES 329, 129 — Interchangeable Rod Type

Interchangeable rod (Optional Accessories)

(Check and adjust the origin point before measurement)



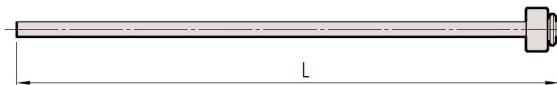
129-127



129-131



129-331

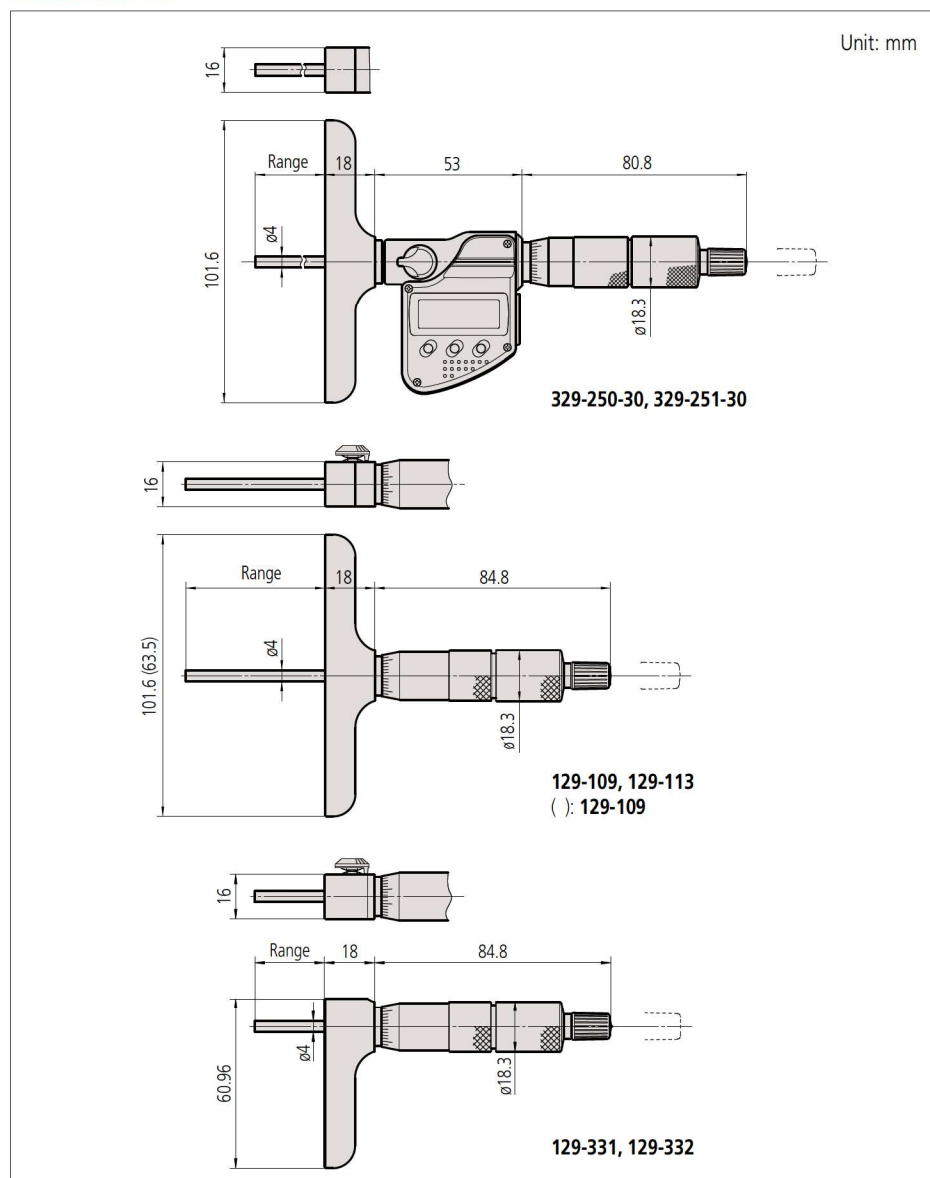


| Range (in)       | 0 - 1            | 1 - 2  | 2 - 3  | 3 - 4  | 4 - 5  | 5 - 6  | 6 - 7  | 7 - 8  | 8 - 9  | 9 - 10 | 10 - 11 | 11 - 12 |
|------------------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| Analog models    | Order No. 983502 | 983504 | 983506 | 983508 | 983510 | 983512 | 983526 | 983528 | 983530 | 983532 | 983534  | 983536  |
|                  | L (mm) 104.3     | 129.7  | 155.1  | 180.5  | 205.9  | 231.3  | 256.7  | 282.1  | 307.5  | 332.9  | 358.3   | 383.7   |
| Digimatic models | Order No. 983506 | 983508 | 983510 | 983512 | 983526 | 983528 | 983530 | 983532 | 983534 | 983536 | 981783  | 981784  |
|                  | L (mm) 155.1     | 180.5  | 205.9  | 231.3  | 256.7  | 282.1  | 307.5  | 332.9  | 358.3  | 383.7  | 409.1   | 434.5   |

| Range (mm)       | 0 - 25           | 25 - 50 | 50 - 75 | 75 - 100 | 100 - 125 | 125 - 150 | 150 - 175 | 175 - 200 | 200 - 225 | 225 - 250 | 250 - 275 | 275 - 300 |
|------------------|------------------|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Analog models    | Order No. 983501 | 983503  | 983505  | 983507   | 983509    | 983511    | 983525    | 983527    | 983529    | 983531    | 983533    | 983535    |
|                  | L (mm) 104       | 129     | 154     | 179      | 204       | 229       | 254       | 279       | 304       | 329       | 354       | 379       |
| Digimatic models | Order No. 983505 | 983507  | 983509  | 983511   | 983525    | 983527    | 983529    | 983531    | 983533    | 983535    | 981781    | 981782    |
|                  | L (mm) 154       | 179     | 204     | 229      | 254       | 279       | 304       | 329       | 354       | 379       | 404       | 429       |

## DIMENSIONS



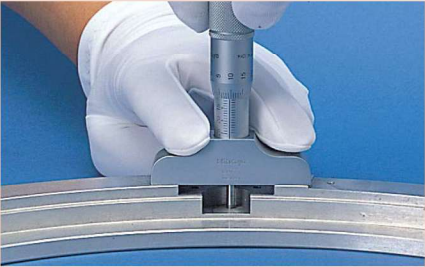
# Depth Gage

## Depth Micrometer SERIES 128

- Measuring rod diameter:  $\varnothing 4$  mm.
  - With measuring rod clamp.
  - Carbide-tipped measuring rod model is available.
  - With ratchet stop for constant measuring force.
- Note: The clamp is on rear surface.



### Measurement example



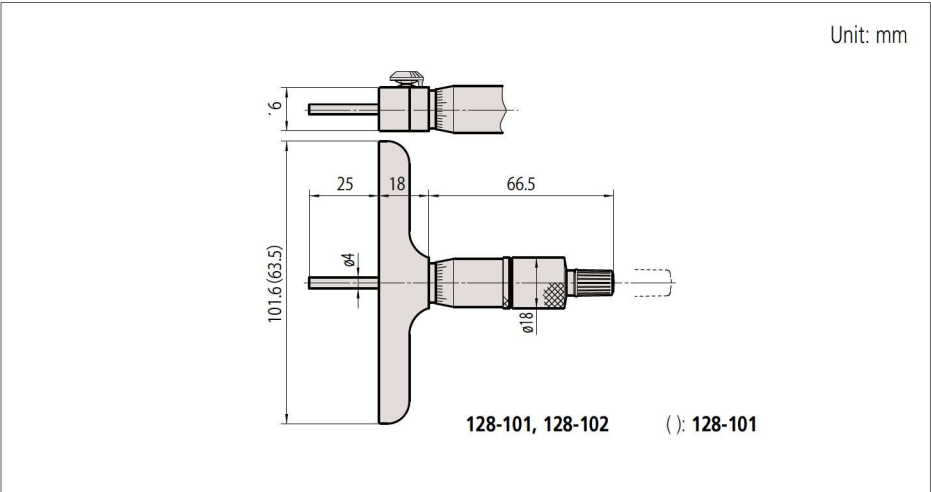
## SPECIFICATIONS

| Inch      |            |                 |               |                    |                   |                                                                |           |
|-----------|------------|-----------------|---------------|--------------------|-------------------|----------------------------------------------------------------|-----------|
| Order No. | Range (in) | Graduation (in) | Accuracy      | Base Flatness (in) | Rod Flatness (in) | Parallelism between reference face and measuring rod face (in) | Base (in) |
| 128-105   | 0 - 1      | 0.001           | $\pm 0.00015$ | 0.000052           | 0.000012          | 0.00025                                                        | 2.5x0.63  |
| 128-106   |            |                 |               | 0.00008            |                   |                                                                | 4x0.63    |

| Metric    |            |                 |          |                                 |                                |                                                                             |           |
|-----------|------------|-----------------|----------|---------------------------------|--------------------------------|-----------------------------------------------------------------------------|-----------|
| Order No. | Range (mm) | Graduation (mm) | Accuracy | Base Flatness ( $\mu\text{m}$ ) | Rod Flatness ( $\mu\text{m}$ ) | Parallelism between reference face and measuring rod face ( $\mu\text{m}$ ) | Base (mm) |
| 128-101   | 0 - 25     | 0.01            | $\pm 3$  | 1.3                             | 0.3                            | 5                                                                           | 63.5x16   |
| 128-103*  |            |                 |          |                                 |                                |                                                                             |           |
| 128-102   |            |                 |          | 2                               |                                |                                                                             | 101.6x16  |
| 128-104*  |            |                 |          |                                 |                                |                                                                             |           |

- Standard Accessories: **301336** Spanner
- \* With carbide-tipped measuring rod

## DIMENSIONS







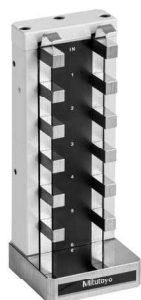
# Depth Gage

## Measurement example



## Depth Micro Checker SERIES 515

- The Depth Micro Checker is designed to efficiently check the zero point of a depth micrometer.



515-575



515-570



515-571

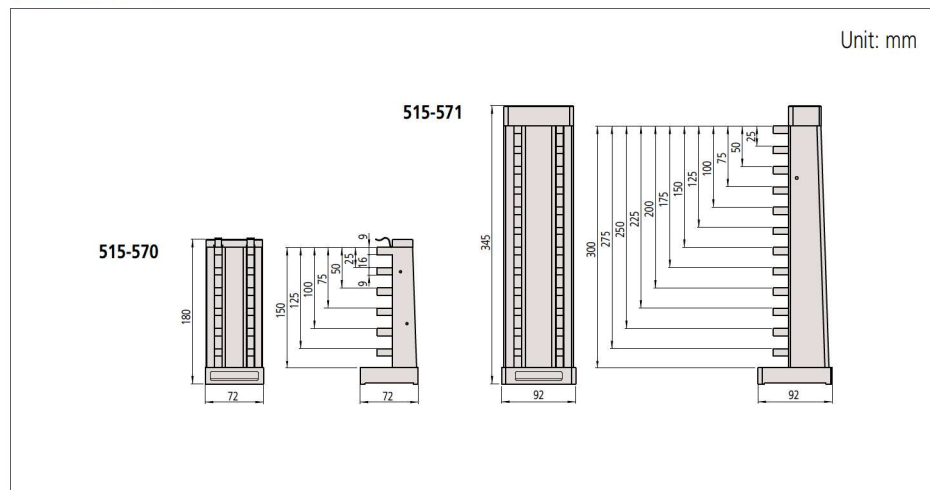
## SPECIFICATIONS

| Inch      |            |                                                            |                            |
|-----------|------------|------------------------------------------------------------|----------------------------|
| Order No. | Range (in) | Block pitch accuracy                                       | Anvil block accuracy (μin) |
| 515-575   | 0 - 6      | $\pm(40 + L/0.15) \mu\text{in}$ , L = Length to check (in) | $\pm 20$                   |

| Metric    |            |                                                         |                           |
|-----------|------------|---------------------------------------------------------|---------------------------|
| Order No. | Range (mm) | Block pitch accuracy                                    | Anvil block accuracy (μm) |
| 515-570   | 0 - 150    | $\pm(1 + L/150) \mu\text{m}$ , L = Length to check (mm) | $\pm 0.5$                 |
| 515-571   | 0 - 300    |                                                         |                           |

## DIMENSIONS



# Depth Gage

## ABSOLUTE Digimatic Depth Gage SERIES 571

- Made of hardened stainless steel with micro-lapped base and measuring faces.
- Enables stable depth measurement with a resolution of .0005 in/0.01mm.
- Coolant proof type IP67 rated.
- Data output function allows integration into statistical process control and measurement systems (refer to catalog section A).
- Optional longer extension bases are available (refer to page D-78).



571-261-20

### SPECIFICATIONS

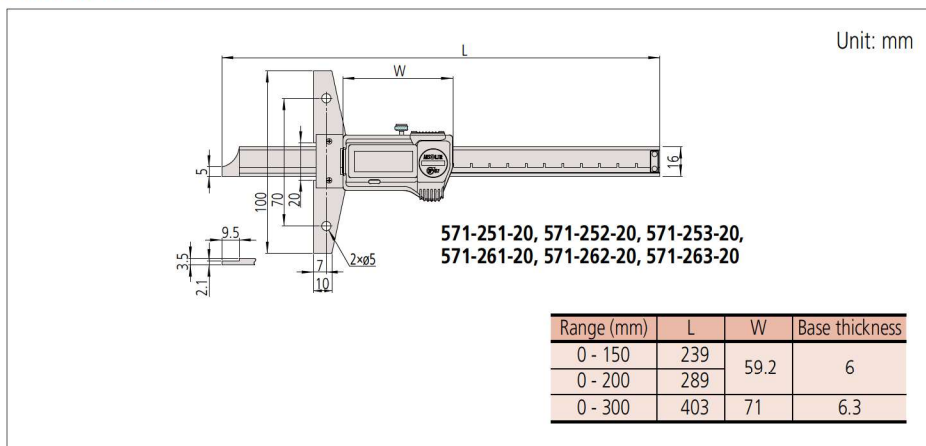
| Inch / Metric |            |                      |                 |                     |
|---------------|------------|----------------------|-----------------|---------------------|
| Order No.     | Range (in) | Resolution           | Base (WxT) (in) | Accuracy* (in)      |
| 571-261-20    | 0 - 6      | 0.0005 in/<br>0.01mm | 3.93x0.23       | ±0.001 in/±0.02 mm  |
| 571-262-20    | 0 - 8      |                      |                 |                     |
| 571-263-20    | 0 - 12     |                      | 3.93x0.25       | ±0.0015 in/±0.03 mm |

| Metric     |            |                 |                 |                |
|------------|------------|-----------------|-----------------|----------------|
| Order No.  | Range (mm) | Resolution (mm) | Base (WxT) (mm) | Accuracy* (mm) |
| 571-251-20 | 0 - 150    | 0.01            | 100x6           | ±0.02          |
| 571-252-20 | 0 - 200    |                 | 100x6.3         | ±0.03          |
| 571-253-20 | 0 - 300    |                 |                 |                |

- Dust/Water protection level: IP67\*2
  - Power source: SR44 battery (1 pc.), **938882** included as standard (for operational checks)
  - Position detection method: ABSOLUTE electromagnetic inductive linear encoder
  - Battery life: Approx. 5 years
- \*EMPE (ISO 13385-2:2020). Largest value across the measuring range

### DIMENSIONS



### Measurement example



### Optional Accessories

| Order No. | Type   | Description                                                             |
|-----------|--------|-------------------------------------------------------------------------|
| 264-020   | —      | USB Input Tool Series<br>USB Keyboard Signal Conversion<br>Type IT-020U |
| 05CZA624  | A      | Connection cable (1 m)                                                  |
| 05CZA625  | A      | Connection cable (2 m)                                                  |
| 06AFM380A | A      | USB Input Tool Direct (2 m)                                             |
| 02AZD730G | IP67   | U-WAVE-T                                                                |
| 02AZD880G | Buzzer | U-WAVE-T                                                                |
| 02AZE200  | —      | U-WAVE-T mounting bracket                                               |
| 02AZD790A | A      | Connection cable for<br>U-WAVE-T (160 mm)                               |
| 02AZE140A | A      | Connection cable for<br>U-WAVE-T<br>For foot switch                     |
| 02AZE140C | C      | Connection cable for<br>U-WAVE-T<br>For foot switch                     |
| 264-620   | IP67   | U-WAVE-TC                                                               |
| 264-621   | Buzzer | U-WAVE-TC                                                               |
| 264-624   | IP67   | U-WAVE-TCB                                                              |
| 264-625   | Buzzer | U-WAVE-TCB                                                              |
| 02AZF310  | IP67   | Connecting unit for<br>U-WAVE-TC/TCB                                    |
| 02AZF300  | —      | Connecting unit for<br>U-WAVE-TC                                        |

## Optional Accessories

| Order No. | Type   | Description                                                                             |
|-----------|--------|-----------------------------------------------------------------------------------------|
| 264-020   | —      | USB Input Tool Series<br>USB Keyboard Signal Conversion<br>Type IT-020U                 |
| 959149    | C      | Connection cable (1 m)                                                                  |
| 959150    | C      | Connection cable (2 m)                                                                  |
| 06AFM380C | C      | USB Input Tool Direct (2 m)                                                             |
| 02AZD730G | IP67   | U-WAVE-T                                                                                |
| 02AZD880G | Buzzer | U-WAVE-T                                                                                |
| 02AZE200  | —      | U-WAVE-T mounting bracket                                                               |
| 02AZE140A | A      | Connection cable for<br>U-WAVE-T<br>For foot switch                                     |
| 02AZD790C | C      | Connection cable for<br>U-WAVE-T (160 mm)                                               |
| 02AZE140C | C      | Connection cable for<br>U-WAVE-T<br>For foot switch                                     |
| 264-620   | IP67   | U-WAVE-TC                                                                               |
| 264-621   | Buzzer | U-WAVE-TC*                                                                              |
| 264-624   | IP67   | U-WAVE-TCB                                                                              |
| 264-625   | Buzzer | U-WAVE-TCB*                                                                             |
| 02AZF300  | —      | Connecting unit for<br>U-WAVE-TC/TCB<br>(for models with a range up to<br>300 mm/12 in) |
| 959143    | —      | Data hold unit                                                                          |

\* Cannot be used with 571-20X-10 and 571-21X-10.

## ABSOLUTE Digimatic Depth Gage SERIES 571

- Made of hardened stainless steel with micro-lapped base and measuring faces.
- Enables stable depth measurement with a resolution of .0005 in/0.01 mm.
- Optional longer extension bases are available (refer to page D-78).
- Data output function allows integration into statistical process control and measurement systems (refer to section A).



## SPECIFICATIONS

| Inch / Metric |            |                       |                 |                 |                     |
|---------------|------------|-----------------------|-----------------|-----------------|---------------------|
| Order No.     | Range (in) | Resolution            | Battery life    | Base (WxT) (in) | Accuracy* (in)      |
| 571-211-30    | 0 - 6      | 0.0005 in/<br>0.01 mm | Approx. 5 years | 3.93x0.23       | ±0.001 in/±0.02 mm  |
| 571-212-30    | 0 - 8      |                       |                 | 3.93x0.25       | ±0.0015 in/±0.03 mm |
| 571-213-30    | 0 - 12     |                       | Approx. 3 years | 9.8x0.39        | ±0.002 in/±0.05 mm  |
| 571-214-10*2  | 0 - 18     |                       |                 |                 | ±0.0025 in/±0.06 mm |
| 571-215-10*2  | 0 - 24     |                       |                 |                 | ±0.0025 in/±0.07 mm |
| 571-216-10*2  | 0 - 30     |                       |                 |                 | ±0.0025 in/±0.07 mm |
| 571-217-10*2  | 0 - 40     |                       |                 |                 | ±0.0025 in/±0.07 mm |

| Metric       |            |                 |                 |                 |                |
|--------------|------------|-----------------|-----------------|-----------------|----------------|
| Order No.    | Range (mm) | Resolution (mm) | Battery life    | Base (WxT) (mm) | Accuracy* (mm) |
| 571-201-30   | 0 - 150    | 0.01            | Approx. 5 years | 100x6           | ±0.02          |
| 571-202-30   | 0 - 200    |                 |                 | 100x6.3         | ±0.03          |
| 571-203-30   | 0 - 300    |                 | Approx. 3 years | 250x10          | ±0.05          |
| 571-204-10*2 | 0 - 450    |                 |                 |                 | ±0.06          |
| 571-205-10*2 | 0 - 600    |                 |                 |                 | ±0.07          |
| 571-206-10*2 | 0 - 750    |                 |                 |                 | ±0.07          |
| 571-207-10*2 | 0 - 1000   |                 |                 |                 | ±0.07          |

• Power source: SR44 battery (1 pc.), 938882 included as standard (for operational checks)

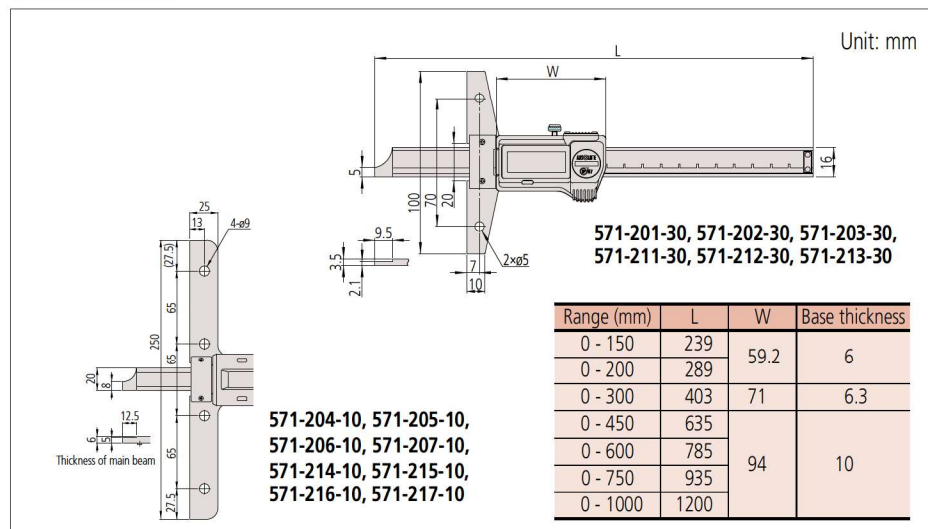
• Position detection method: Electrostatic capacity absolute sensor

\*EMPE (ISO 13385-2:2020). Largest value across the measuring range

\*1 Maximum permissible error, EMPE, is the term defined by ISO 13385-2:2011

\*2 Cannot be used with U-WAVE-TC

## DIMENSIONS

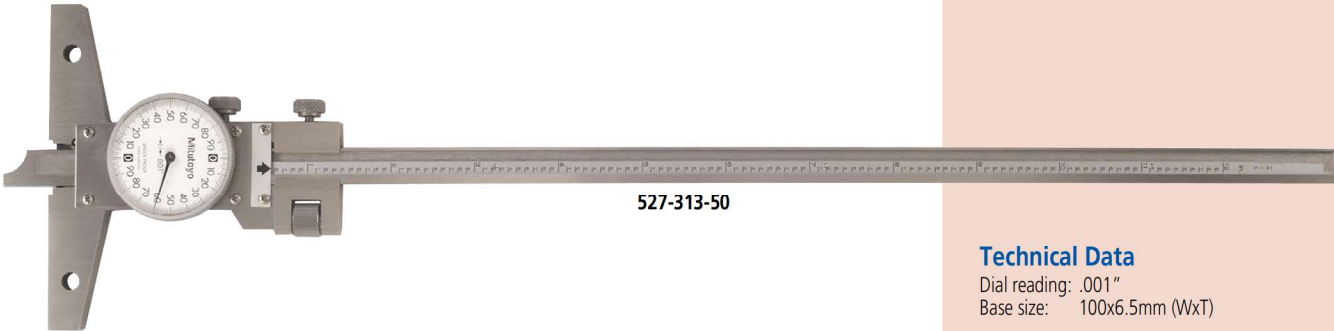




# Depth Gage

## Dial Depth Gage SERIES 527 with Fine Adjustment

- Easier and faster reading of dial.
- Made of hardened stainless steel.
- Base and measuring faces are hardened and micro-lapped.
- Optional wider extension base are available (refer to page D-16).



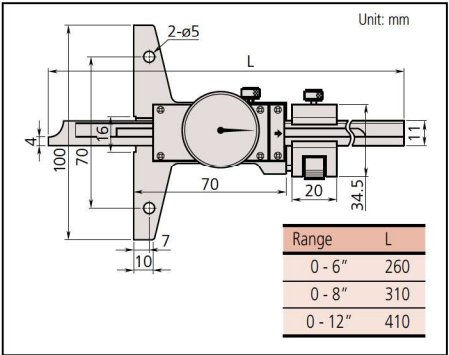
### Technical Data

Dial reading: .001"  
Base size: 100x6.5mm (WxT)

### SPECIFICATIONS

| Inch    |            |              |          |          |
|---------|------------|--------------|----------|----------|
| Range   | Order No.  | Dial reading | Accuracy | Mass (g) |
| 0 - 6"  | 527-311-50 | .001"        | ±.001"   | 280      |
| 0 - 8"  | 527-312-50 | .001"        | ±.001"   | 300      |
| 0 - 12" | 527-313-50 | .001"        | ±.0015"  | 340      |

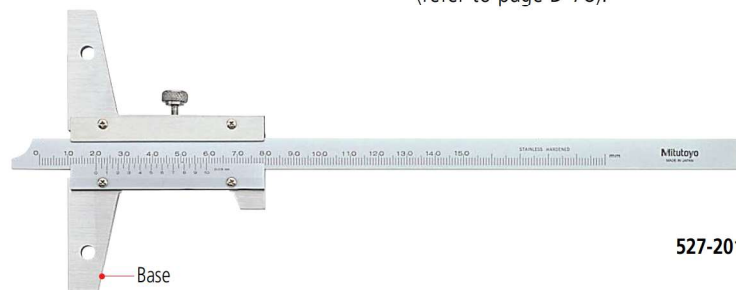
### DIMENSIONS



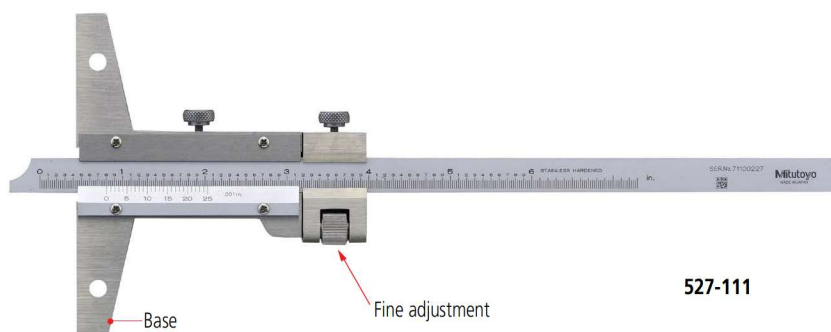
# Depth Gage

## Vernier Depth Gage SERIES 527

- Made of hardened stainless steel with micro-lapped base and measuring faces.
- Standard Vernier gage for depth measurement.
- Optional longer extension bases are available (refer to page D-78).



527-201



527-111

## SPECIFICATIONS

### Inch

| Order No. | Range (in) | Minimum reading (in) | Base (WxT) (in) | Accuracy* (in) | Remarks              |
|-----------|------------|----------------------|-----------------|----------------|----------------------|
| 527-111   | 0 - 6      | 0.001                | 3.93x0.25       | ±0.001         | with fine adjustment |
| 527-112   | 0 - 8      |                      |                 | ±0.0015        |                      |
| 527-113   | 0 - 12     |                      | 9.8x0.39        | ±0.002         |                      |
| 527-114   | 0 - 24     |                      |                 | ±0.003         |                      |
| 527-115   | 0 - 40     |                      |                 | ±0.003         |                      |

### Metric

| Order No. | Range (mm) | Minimum reading (mm) | Base (WxT) (mm) | Accuracy* (mm) | Remarks |
|-----------|------------|----------------------|-----------------|----------------|---------|
| 527-201   | 0 - 150    | 0.05                 | 100x6.5         | ±0.05          | —       |
| 527-202   | 0 - 200    |                      |                 | ±0.08          |         |
| 527-203   | 0 - 300    |                      | 250x10          | ±0.10          |         |
| 527-204   | 0 - 600    |                      |                 | ±0.15          |         |
| 527-205   | 0 - 1000   |                      |                 | ±0.15          |         |

### Metric

| Order No. | Range (mm) | Minimum reading (mm) | Base (WxT) (mm) | Accuracy* (mm) | Remarks              |
|-----------|------------|----------------------|-----------------|----------------|----------------------|
| 527-101   | 0 - 150    | 0.02                 | 100x6.5         | ±0.03          | with fine adjustment |
| 527-102   | 0 - 200    |                      |                 | ±0.04          |                      |
| 527-103   | 0 - 300    |                      | 250x10          | ±0.05          |                      |
| 527-104   | 0 - 600    |                      |                 | ±0.07          |                      |
| 527-105   | 0 - 1000   |                      |                 | ±0.07          |                      |

### Metric

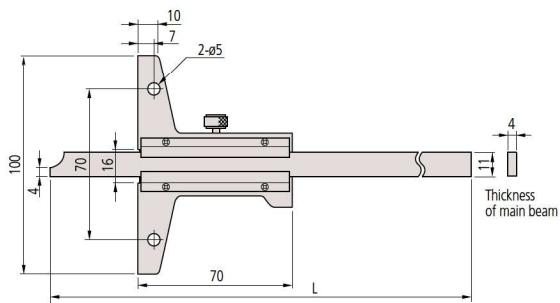
| Order No. | Range (mm) | Minimum reading (mm) | Base (WxT) (mm) | Accuracy* (mm) | Remarks |
|-----------|------------|----------------------|-----------------|----------------|---------|
| 527-121   | 0 - 150    | 0.02                 | 100x6.5         | ±0.03          | —       |
| 527-122   | 0 - 200    |                      |                 |                |         |
| 527-123   | 0 - 300    |                      |                 |                |         |

\*EMPE (ISO 13385-2:2020). Largest value across the measuring range

# Depth Gage

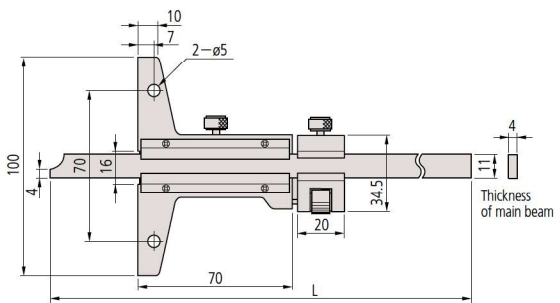
## DIMENSIONS

Unit: mm



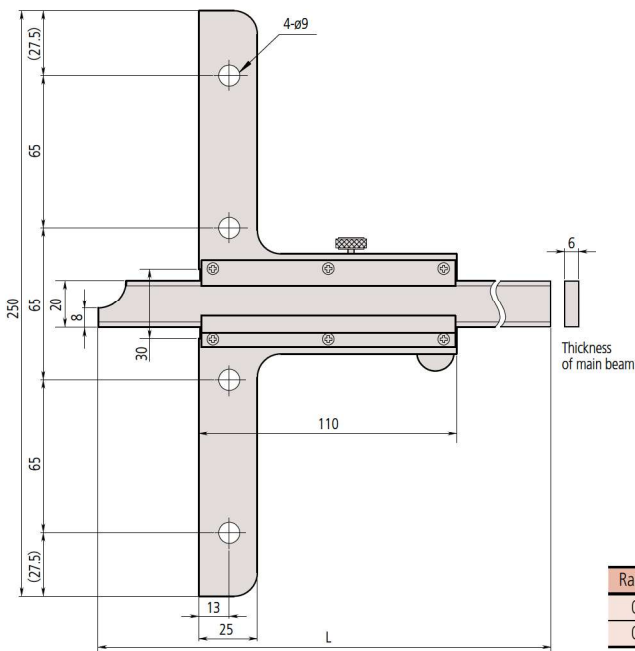
527-201, 527-202, 527-203

| Range (mm) | L   |
|------------|-----|
| 0 - 150    | 260 |
| 0 - 200    | 310 |
| 0 - 300    | 410 |



527-101, 527-102, 527-103,  
527-111, 527-112, 527-113

| Range (mm) | L   |
|------------|-----|
| 0 - 150    | 260 |
| 0 - 200    | 310 |
| 0 - 300    | 410 |

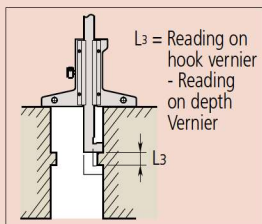
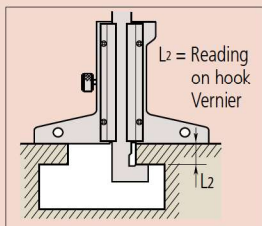
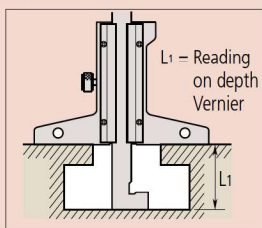


527-204, 527-205, 527-104, 527-105,  
527-114, 527-115

| Range (mm) | L    |
|------------|------|
| 0 - 600    | 800  |
| 0 - 1000   | 1200 |



## Typical applications



## Optional Accessories

| Order No. | Type   | Description                                                             |
|-----------|--------|-------------------------------------------------------------------------|
| 264-020   | —      | USB Input Tool Series<br>USB Keyboard Signal Conversion<br>Type IT-020U |
| 05CZA624  | A      | Connection cable (1 m)                                                  |
| 05CZA625  | A      | Connection cable (2 m)                                                  |
| 06AFM380A | A      | USB Input Tool Direct (2 m)                                             |
| 02AZD730G | IP67   | U-WAVE-T                                                                |
| 02AZD880G | Buzzer | U-WAVE-T                                                                |
| 02AZE200  | —      | U-WAVE-T mounting bracket                                               |
| 02AZD790A | A      | Connection cable for<br>U-WAVE-T (160 mm)                               |
| 02AZE140A | A      | Connection cable for<br>U-WAVE-T<br>For foot switch                     |
| 264-620   | IP67   | U-WAVE-TC                                                               |
| 264-621   | Buzzer | U-WAVE-TC                                                               |
| 264-624   | IP67   | U-WAVE-TCB                                                              |
| 264-625   | Buzzer | U-WAVE-TCB                                                              |
| 02AZF310  | IP67   | Connecting unit for<br>U-WAVE-TC/TCB                                    |

## Depth Gage SERIES 571 — Hook-end Type

- The end of the main scale is hook-shaped to allow depth and thickness measurements of a projected portion or lip in a hole, in addition to standard depth measurement.
- Made of hardened stainless steel with micro-lapped base and measuring faces.
- Direct reading of depth measurement is available due to the offset-value setting function.
- Coolant proof type IP67 rated.
- Optional longer extension bases are available (refer to page D-78).



571-264-20

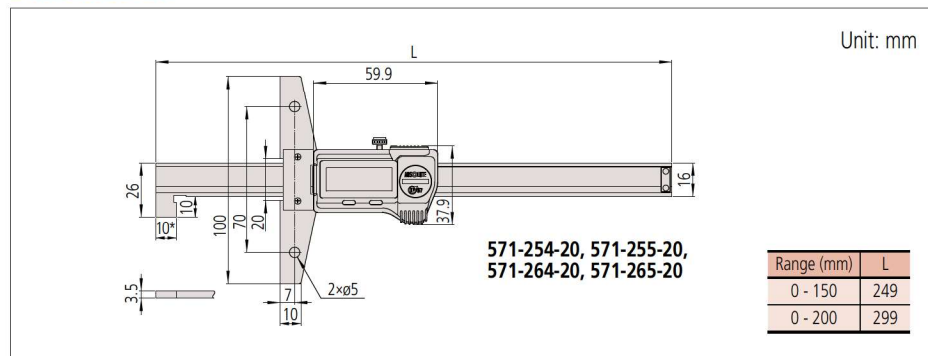
## SPECIFICATIONS

| Inch / Metric |                            |                   |                 |                     |
|---------------|----------------------------|-------------------|-----------------|---------------------|
| Order No.     | Range: L1 (L2 and L3)      | Resolution        | Base (WxT) (mm) | Accuracy*           |
| 571-264-20    | 0.4 in - 6.4 in (0 - 6 in) | 0.0005 in/0.01 mm | 100x6           | ±0.0015 in/±0.03 mm |
| 571-265-20    | 0.4 in - 8.4 in (0 - 8 in) |                   |                 |                     |
| Metric        |                            |                   |                 |                     |
| Order No.     | Range (mm): L1 (L2 and L3) | Resolution (mm)   | Base (WxT) (mm) | Accuracy* (mm)      |
| 571-254-20    | 10.1 - 160 (0 - 150)       | 0.01              | 100x6           | ±0.03               |
| 571-255-20    | 10.1 - 210 (0 - 200)       |                   |                 |                     |

- Dust/Water protection level: IP67\*2
- Power source: SR44 battery (1 pc.), 938882 included as standard (for operational checks)
- Position detection method: ABSOLUTE electromagnetic inductive linear encoder
- Battery life: Approx. 5 years

\*EMPE (ISO 13385-2:2020). Largest value across the measuring range

## DIMENSIONS

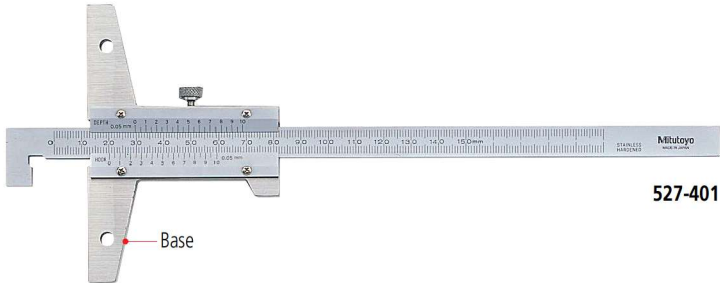


\*0.4 in for Inch models.

# Depth Gage

## Depth Gage SERIES 527 — Hook-end Type

- The end of the main scale is hook-shaped to allow depth and thickness measurements of a projected portion or lip in a hole, in addition to standard depth measurement.
- Made of hardened stainless steel with micro-lapped base and measuring faces.
- Depth can be directly measured with the upper Vernier of the slider and thickness with the lower Vernier.
- Optional longer extension bases are available (refer to page D-16).

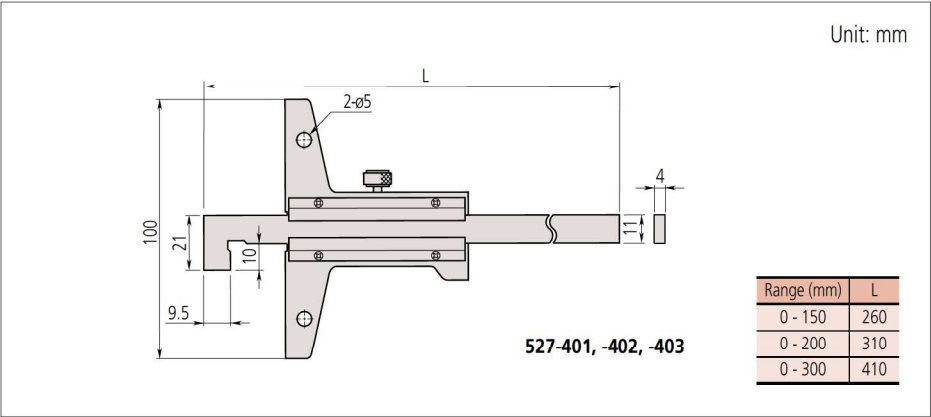


### SPECIFICATIONS

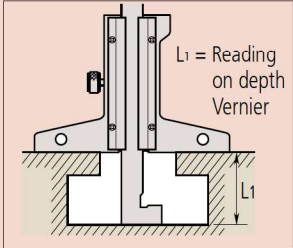
| Metric    |                            |                            |                 |                |
|-----------|----------------------------|----------------------------|-----------------|----------------|
| Order No. | Range (mm): L1 (L2 and L3) | Resolution/Graduation (mm) | Base (W×T) (mm) | Accuracy* (mm) |
| 527-401   | 10 - 150 (0 - 150)         | 0.05                       | 100×6.5         | ±0.05          |
| 527-402   | 10 - 200 (0 - 200)         |                            |                 | ±0.08          |
| 527-403   | 10 - 300 (0 - 300)         |                            |                 | ±0.03          |
| 527-411   | 10 - 150 (0 - 150)         | 0.02                       |                 | ±0.04          |
| 527-412   | 10 - 200 (0 - 200)         |                            |                 |                |
| 527-413   | 10 - 300 (0 - 300)         |                            |                 |                |

\*EMPE (ISO 13385-2:2020). Largest value across the measuring range

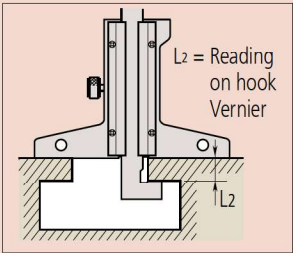
### DIMENSIONS



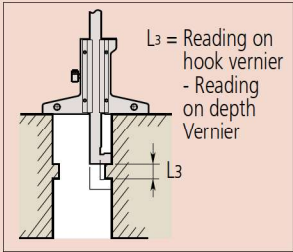
### Typical applications



Vernier



Vernier



Vernier (both instances)

## Optional Accessories

| Order No. | Type   | Description                                                             |
|-----------|--------|-------------------------------------------------------------------------|
| 264-020   | —      | USB Input Tool Series<br>USB Keyboard Signal Conversion<br>Type IT-020U |
| 05CZA624  | A      | Connection cable for<br>IT/DP/MUX (1 m)                                 |
| 05CZA625  | A      | Connection cable for<br>IT/DP/MUX (2 m)                                 |
| 06AFM380A | A      | USB Input Tool Direct (2 m)                                             |
| 02AZD730G | IP67   | U-WAVE-T                                                                |
| 02AZD880G | Buzzer | U-WAVE-T                                                                |
| 02AZE200  | —      | U-WAVE-T mounting bracket                                               |
| 02AZD790A | A      | Connection cable for<br>U-WAVE-T (160 mm)                               |
| 02AZE140A | A      | Connection cable for<br>U-WAVE-T<br>For foot switch                     |
| 264-620   | IP67   | U-WAVE-TC                                                               |
| 264-621   | Buzzer | U-WAVE-TC                                                               |
| 264-624   | IP67   | U-WAVE-TCB                                                              |
| 264-625   | Buzzer | U-WAVE-TCB                                                              |
| 02AZF310  | IP67   | Connecting unit for<br>U-WAVE-TC/TCB                                    |

## Depth Gage SERIES 571 — Point-contact Type

- ABSOLUTE Point-type Digimatic Depth Gage is suitable for measuring inside narrow holes.
- Optional longer extension bases are available (refer to page D-78).
- Made of hardened stainless steel with micro-lapped base and measuring faces.
- Data output function allows integration into statistical process control and measurement systems (refer to catalog section A).
- Coolant proof type IP67 rated.



571-302-20

## SPECIFICATIONS

| Inch / Metric |                       |                     |                 |                      |
|---------------|-----------------------|---------------------|-----------------|----------------------|
| Order No.     | Range                 | Resolution          | Base (WxT) (mm) | Accuracy*            |
| 571-311-20    | 0 - 6 in / 0 - 150 mm | 0.0005 in / 0.01 mm | 100x6           | ±0.001 in / ±0.02 mm |
| 571-312-20    | 0 - 8 in / 0 - 200 mm |                     |                 |                      |

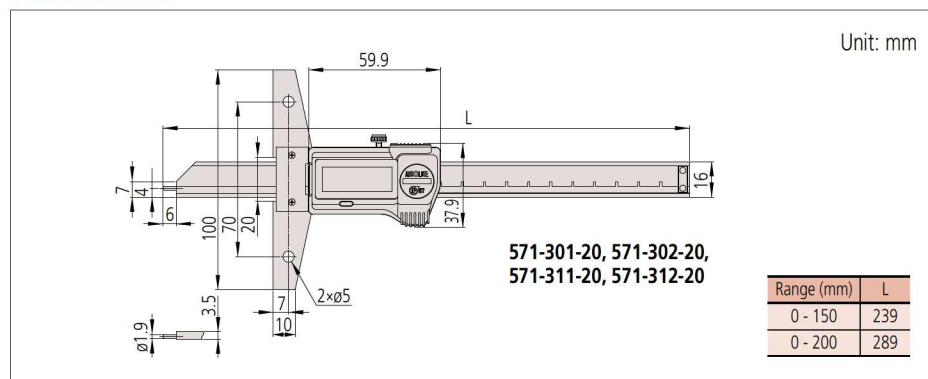
  

| Metric     |         |                 |                 |                |
|------------|---------|-----------------|-----------------|----------------|
| Order No.  | Range   | Resolution (mm) | Base (WxT) (mm) | Accuracy* (mm) |
| 571-301-20 | 0 - 150 | 0.01            | 100x6           | ±0.02          |
| 571-302-20 | 0 - 200 |                 |                 |                |

- Dust/Water protection level: IP67\*2
- Power source: SR44 battery (1 pc.), **938882** included as standard (for operational checks)
- Position detection method: ABSOLUTE electromagnetic inductive linear encoder
- Battery life: Approx. 5 years

\*EMPE (ISO 13385-2:2020). Largest value across the measuring range

## DIMENSIONS





# Depth Gage

## Mini Depth Gage SERIES 571

- Digital display with .0005 in / 0.01 mm resolution.
- Enables measurement of tread depth.
- Made of hardened stainless steel with micro-lapped base and measuring faces.
- ABSOLUTE Digimatic Depth Gage.
- Data output function allows integration into statistical process control and measurement systems (refer to catalog section A).
- Coolant proof type IP67 rated.



571-200-20

## SPECIFICATIONS

| Inch / Metric |            |                 |           |                |
|---------------|------------|-----------------|-----------|----------------|
| Order No.     | Range (in) | Resolution (in) | Base (in) | Accuracy* (in) |
| 571-200-20    | 0 - 1      | 0.0005          | 2.36      | ±0.001         |

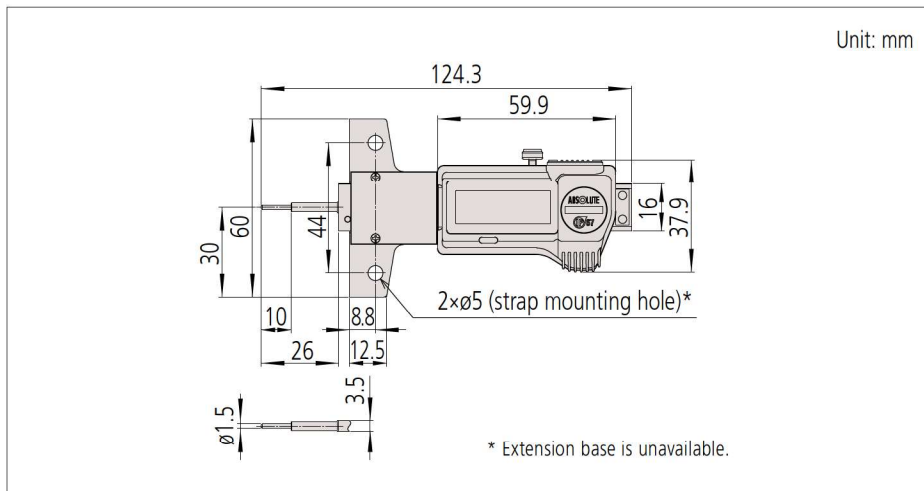
  

| Metric     |            |                 |           |                |
|------------|------------|-----------------|-----------|----------------|
| Order No.  | Range (mm) | Resolution (mm) | Base (mm) | Accuracy* (mm) |
| 571-100-20 | 0 - 25     | 0.01            | 60        | ±0.02          |

- Dust/Water protection level: IP67\*2
- Power source: SR44 battery (1 pc.), **938882** included as standard (for operational checks)
- Position detection method: ABSOLUTE electromagnetic inductive linear encoder
- Battery life: Approx. 5 years under normal use.

\*EMPE (ISO 13385-2:2020). Largest value across the measuring range

## DIMENSIONS



## Measurement example



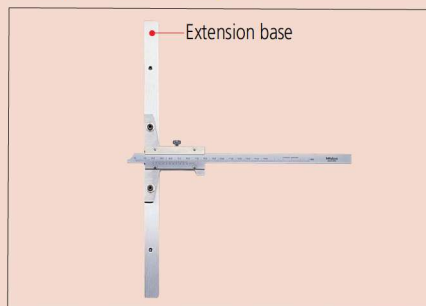
## Optional Accessories

| Order No. | Type   | Description                                                             |
|-----------|--------|-------------------------------------------------------------------------|
| 264-020   | —      | USB Input Tool Series<br>USB Keyboard Signal Conversion<br>Type IT-020U |
| 05CZA624  | A      | Connection cable for<br>IT/DP/MUX (1 m)                                 |
| 05CZA625  | A      | Connection cable for<br>IT/DP/MUX (2 m)                                 |
| 06AFM380A | A      | USB Input Tool Direct (2 m)                                             |
| 02AZD730G | IP67   | U-WAVE-T                                                                |
| 02AZD880G | Buzzer | U-WAVE-T                                                                |
| 02AZE200  | —      | U-WAVE-T mounting bracket                                               |
| 02AZD790A | A      | Connection cable for<br>U-WAVE-T (160 mm)                               |
| 02AZE140A | A      | Connection cable for<br>U-WAVE-T<br>For foot switch                     |
| 264-620   | IP67   | U-WAVE-TC                                                               |
| 264-621   | Buzzer | U-WAVE-TC                                                               |
| 264-624   | IP67   | U-WAVE-TCB                                                              |
| 264-625   | Buzzer | U-WAVE-TCB                                                              |
| 02AZF310  | IP67   | Connecting unit for<br>U-WAVE-TC/TCB                                    |



# Depth Gage

## Example of attaching the extension base



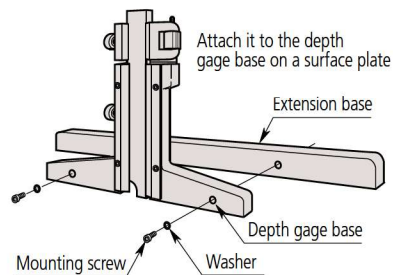
## Special size / specifications

Extension bases, to size of specifications other than standard, available by special order. Please consult your nearest M<sup>3</sup> Solution Center.

### Example of special size

| Measuring range of depth gage | L (mm) |
|-------------------------------|--------|
| 12 in / 300 mm or less        | 400    |
|                               | 500    |
|                               | 600    |
| 18 in / 450 mm or more        | 400    |
|                               | 500    |
|                               | 600    |
|                               | 700    |
|                               | 800    |

## Attaching the extension base



## Extension Bases Optional Accessory for Depth Gage

- Attaches to the base (reference face) plate of a depth gage to extend its span.
- These Extension Bases can be attached to 12 in / 300 mm or less range models.
- For over 12 in / 300 mm range models, special-size extensions are available as shown on the left.



900372

D

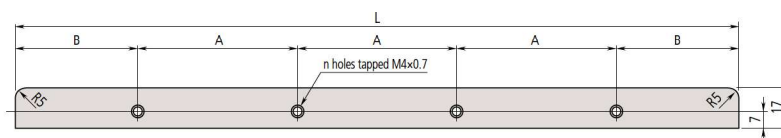
## SPECIFICATIONS

| Inch      |             |                |                 |   |
|-----------|-------------|----------------|-----------------|---|
| Order No. | Size L (in) | Thickness (in) | Material        | n |
| 900367    | 7           | 0.3            | Stainless Steel | 2 |
| 900368    | 10          |                |                 | 5 |
| 900369    | 12          |                |                 | 4 |

| Metric    |             |                |                 |   |
|-----------|-------------|----------------|-----------------|---|
| Order No. | Size L (mm) | Thickness (mm) | Material        | n |
| 900370    | 180         | 8              | Stainless Steel | 2 |
| 900371    | 260         |                |                 | 5 |
| 900372    | 320         |                |                 | 4 |

## DIMENSIONS

Unit: mm



| Order No. | A  | B  | L   | n |
|-----------|----|----|-----|---|
| 900370    | 70 | 55 | 180 | 2 |
| 900371    | 35 | 60 | 260 | 5 |
| 900372    | 70 | 55 | 320 | 4 |

# Depth Gage

## Depth Gage Attachment Optional Accessory for Calipers

- Attaching this hardened depth gage attachment to the depth measurement face of the caliper makes depth measurement accurate and secure.



050084-10

Example of attaching the depth gage attachment

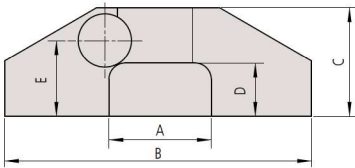


### SPECIFICATIONS

| Metric    |            |                                          |
|-----------|------------|------------------------------------------|
| Order No. | Size (mm)  | Applicable measuring range of caliper    |
| 050083-10 | 3 in / 75  | 4 in, 6 in, 8 in, 100 mm, 150 mm, 200 mm |
| 050084-10 | 4 in / 100 | 4 in, 6 in, 8 in, 100 mm, 150 mm, 200 mm |
| 050085-10 | 5 in / 125 | 12 in (300 mm)                           |

### DIMENSIONS

Unit: mm



| Size (mm)  | A  | B   | C    | D  | E    | T  |
|------------|----|-----|------|----|------|----|
| 3 in / 75  | 25 | 75  | 26.5 | 13 | 18.5 | 12 |
| 4 in / 100 |    | 100 |      |    | 20   | 14 |
| 5 in / 125 | 30 | 125 | 28.5 |    |      |    |

T: Base thickness

## Functions

- Peak detection (MAX/MIN)
- Runout range measurement (MAX - MIN)
- Zero-setting (INC. system)
- Presetting (ABS system)
- Measuring direction switching
- Tolerance judgment
- Resolution switching  
(For 0.0005 mm or 0.00002 inch resolution type)
- Simple calculation:  $f(x) = Ax$
- Function lock
- Calibration schedule warning
- Auto power OFF
- Data output
- Display value holding (when no external device is connected)
- 330° rotary display
- Low battery/voltage alarm display
- Error alarm display

## Optional Accessories

| Order No.        | Type   | Description                                                                                                |
|------------------|--------|------------------------------------------------------------------------------------------------------------|
| <b>264-020</b>   | —      | USB Input Tool Series<br>USB Keyboard Signal Conversion<br>Type <b>IT-020U</b>                             |
| <b>06AGL011</b>  | SF     | Connection cable (1 m)                                                                                     |
| <b>06AGL021</b>  | SF     | Connection cable (2 m)                                                                                     |
| <b>06AGQ001F</b> | SF     | USB Input Tool Direct (2 m)                                                                                |
| <b>02AZG011</b>  | SF     | Connection cable for<br><b>U-WAVE-T</b> (160 mm)                                                           |
| <b>02AZG021</b>  | SF     | Connection cable for<br><b>U-WAVE-T</b> (160 mm)<br>For foot switch                                        |
| <b>264-622</b>   | IP67   | <b>U-WAVE-TM</b>                                                                                           |
| <b>264-623</b>   | Buzzer | <b>U-WAVE-TM</b>                                                                                           |
| <b>02AZD810D</b> | —      | <b>U-WAVE-R</b>                                                                                            |
| <b>02AZF670</b>  | —      | <b>U-WAVE-TM</b> mounting bracket<br>For Digimatic Indicator                                               |
| <b>264-626</b>   | IP67   | <b>U-WAVE-TMB</b>                                                                                          |
| <b>264-627</b>   | Buzzer | <b>U-WAVE-TMB</b>                                                                                          |
| <b>02AZF700</b>  | —      | Connecting unit for<br><b>U-WAVE-TM/TMB</b><br>(for <b>ID-C/ID-F</b> Series<br>12.7 mm/0.5 inch type only) |

## ABSOLUTE Digimatic Depth Gage SERIES 547

- Easy-to-read digital display effectively prevents misreading.
- An analog bar indicator on the LCD is convenient for observing subtle movements such as the approach to tolerance.
- Data output function allows integration into statistical process control and measurement systems (refer to catalog section A).



547-217A

## SPECIFICATIONS

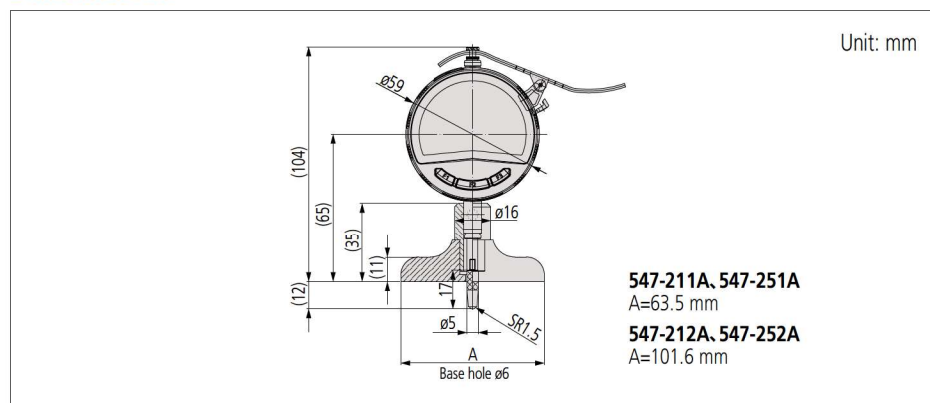
| Inch / Metric |            |                                                                  |             |               |                     |        |        |               |  |  |
|---------------|------------|------------------------------------------------------------------|-------------|---------------|---------------------|--------|--------|---------------|--|--|
| Order No.     | Range (in) | Resolution                                                       | Stroke (in) | Accuracy (in) | Measuring force (N) | Base   |        |               |  |  |
|               |            |                                                                  |             |               |                     | W (in) | T (in) | flatness (in) |  |  |
| 547-217A      | 0 - 8      | 0.0005 in/0.01 mm                                                | 0.5         | ±0.001        | 1.5 or less         | 2.5    | 0.63   | 0.0002        |  |  |
| 547-218A      |            | (0.00005/0.0001/0.0005 in<br>0.0005/0.001/0.01 mm<br>selectable) |             | ±0.0002       |                     | 4      |        | 0.00008       |  |  |
| 547-257A      |            |                                                                  |             |               |                     | 2.5    |        |               |  |  |
| 547-258A      |            |                                                                  |             |               |                     | 4      |        |               |  |  |

| Order No.       | Contact point                                                    | Extension rod                        | Indicator       |
|-----------------|------------------------------------------------------------------|--------------------------------------|-----------------|
| <b>547-217A</b> | Provided with a carbide-tipped ball point<br>( <b>21JZA242</b> ) | 4 pcs.<br>(0.5 in, 1 in, 2 in, 4 in) | <b>543-712B</b> |
| <b>547-218A</b> |                                                                  |                                      | <b>543-702B</b> |
| <b>547-257A</b> |                                                                  |                                      |                 |
| <b>547-258A</b> |                                                                  |                                      |                 |

| Metric    |            |                            |             |               |                     |        |        |               |
|-----------|------------|----------------------------|-------------|---------------|---------------------|--------|--------|---------------|
| Order No. | Range (mm) | Resolution (mm)            | Stroke (mm) | Accuracy (μm) | Measuring force (N) | Base   |        |               |
|           |            |                            |             |               |                     | W (mm) | T (mm) | flatness (μm) |
| 547-211A  | 0 - 200    | 0.01                       | 12.7        | ±20           | 1.5 or less         | 63.5   | 16     | 5             |
| 547-212A  |            |                            |             |               |                     | 101.6  |        |               |
| 547-251A  |            | 0.0005                     |             | ±5            |                     | 63.5   |        | 2             |
| 547-252A  |            | (0.001/0.01 mm selectable) |             |               |                     | 101.6  |        |               |

| Order No.       | Contact point                                                    | Extension rod                      | Indicator       |
|-----------------|------------------------------------------------------------------|------------------------------------|-----------------|
| <b>547-211A</b> | Provided with a carbide-tipped ball point<br>( <b>21JAA224</b> ) | 5 pcs.<br>(10, 20, 30, 30, 100 mm) | <b>543-710B</b> |
| <b>547-212A</b> |                                                                  |                                    | <b>543-700B</b> |
| <b>547-251A</b> |                                                                  |                                    |                 |
| <b>547-252A</b> |                                                                  |                                    |                 |

## DIMENSIONS

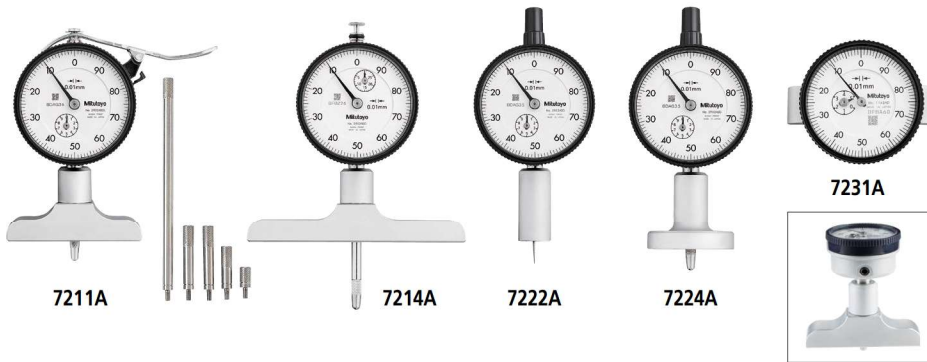




# Dial Depth Gage

## Dial Depth Gage SERIES 7

- Optimal for hole, narrow groove and step measurement.



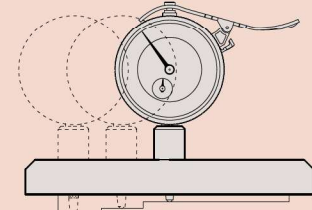
## SPECIFICATIONS

| Inch      |            |                 |             |               |                     |        |        |               |                                     |  |
|-----------|------------|-----------------|-------------|---------------|---------------------|--------|--------|---------------|-------------------------------------|--|
| Order No. | Range (in) | Graduation (in) | Stroke (in) | Accuracy (in) | Measuring force (N) | Base   |        |               |                                     |  |
|           |            |                 |             |               |                     | W (in) | T (in) | Flatness (in) | QTY of indicator mounting positions |  |
| 7217A     | 0 - 8      | 0.001           | 1           | ±0.002        | 2.0                 | 2.5    | 0.63   | 0.0002        | 1                                   |  |
| 7218A     |            |                 |             |               |                     | 4      |        |               |                                     |  |
| 7237A     |            |                 | 0.2         |               | 1.4                 | 2.5    |        |               |                                     |  |
| 7238A     |            |                 |             |               |                     | 4      |        |               |                                     |  |

| Order No. | Contact point                                                | Extension rod                                    | Indicator (dial indicator)                            |
|-----------|--------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------|
| 7217A     | Provided with a carbide-tipped ball point (21JZA242: 0.7 in) | 3 pcs.<br>(1 in, 2 in, 4 in)                     | <b>2904AB</b><br>for Depth Gage                       |
| 7218A     |                                                              | 4 pcs.<br>(0.5 in, 1 in, 2 in, 4 in)             | <b>1168A</b><br>for Depth Gage<br>(Back plunger type) |
| 7237A     |                                                              | Interchangeable contact point (21JZA243: 0.9 in) |                                                       |
| 7238A     |                                                              |                                                  |                                                       |

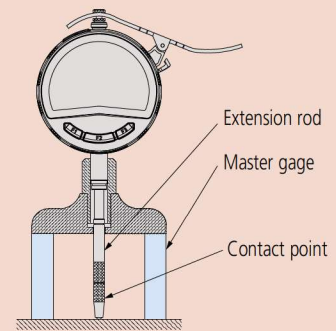
| Metric    |            |                 |             |               |                     |        |        |               |                                     |
|-----------|------------|-----------------|-------------|---------------|---------------------|--------|--------|---------------|-------------------------------------|
| Order No. | Range (mm) | Graduation (mm) | Stroke (mm) | Accuracy (μm) | Measuring force (N) | Base   |        |               |                                     |
|           |            |                 |             |               |                     | W (mm) | T (mm) | Flatness (μm) | QTY of indicator mounting positions |
| 7210A     | 0 - 10     | 0.01            | 10          | ±15           | 1.4                 | 40     | 16     | 5             | 1                                   |
| 7211A     | 0 - 200    |                 |             |               |                     | 63.5   |        |               |                                     |
| 7212A     |            |                 |             |               |                     | 101.6  |        |               |                                     |
| 7213A     | 0 - 210    |                 | 30          | ±30           | 2.5                 | 63.5   |        |               |                                     |
| 7214A     |            |                 |             |               |                     | 101.6  |        |               |                                     |
| 7220A     | 0 - 200    |                 | 10          | ±15           | 1.4                 | 100    | 18     | 2             |                                     |
| 7221A     |            |                 |             |               |                     | 150    |        | 3             |                                     |
| 7222A     | 0 - 10     |                 |             |               |                     | ø16    | 1      |               |                                     |
| 7223A     |            |                 |             |               |                     | ø25    |        |               |                                     |
| 7224A     |            |                 |             |               |                     | ø40    |        |               |                                     |
| 7231A     | 0 - 200    |                 | 5           |               |                     | 63.5   | 16     |               |                                     |

## Indicator Mounting Positions



7220A and 7221A allow the mounting position of a dial indicator to be varied.

## When using an extension rod

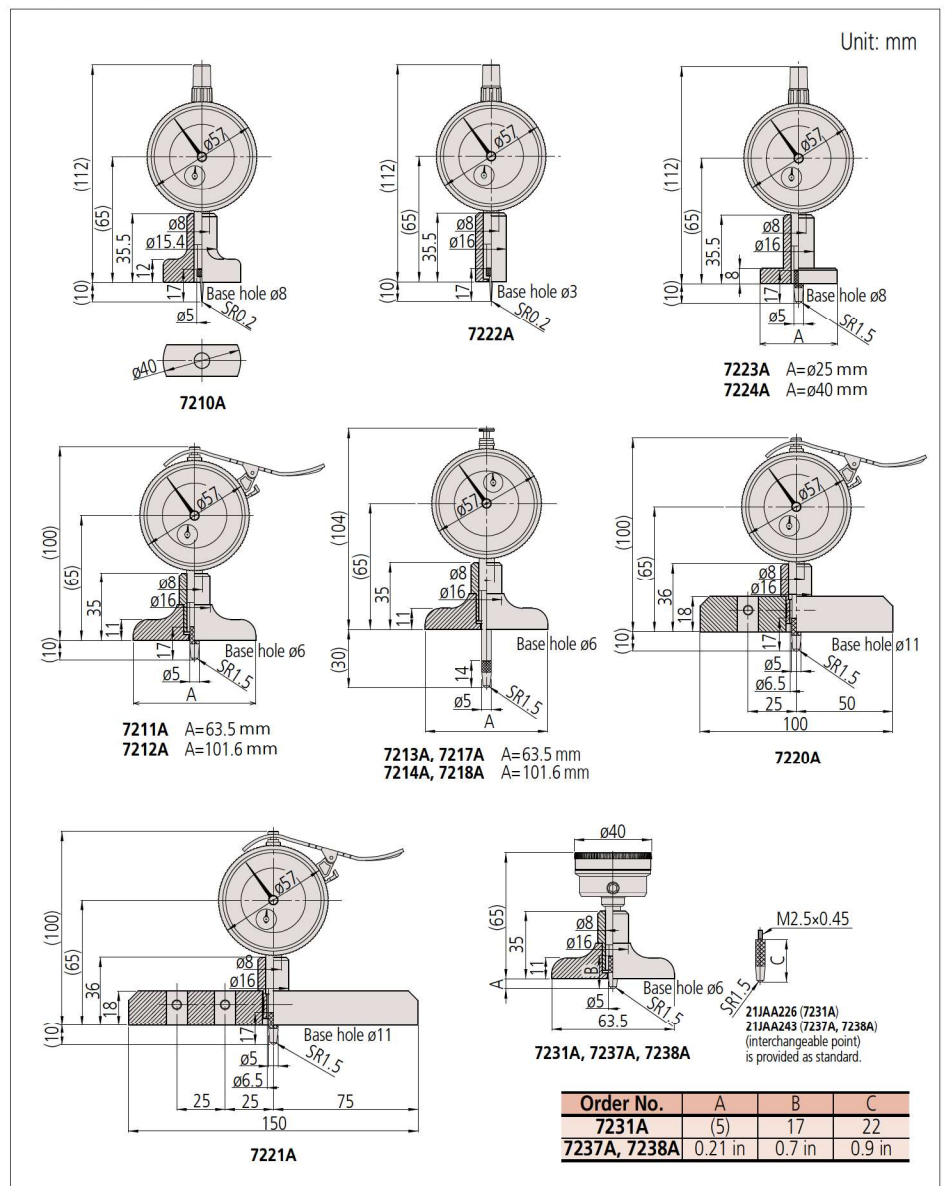


# Dial Depth Gage

| Order No. | Contact point                                                  | Extension rod                                                                     | Indicator (dial indicator)                     |
|-----------|----------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------|
| 7210A     | Provided with a needle point<br>(137413)                       | —                                                                                 | 2902AB<br>for Depth Gage                       |
| 7211A     | Provided with a carbide-tipped ball point<br>(21JAA224)        | 5 pcs.<br>(10, 20, 30, 30, 100 mm)                                                | 2902AB                                         |
| 7212A     |                                                                |                                                                                   | for Depth Gage                                 |
| 7213A     | Provided with a carbide-tipped ball point<br>(21JAA225)        | 3 pcs.<br>(30, 60, 90 mm)                                                         | 2952AB                                         |
| 7214A     |                                                                |                                                                                   | for Depth Gage                                 |
| 7220A     | Provided with a carbide-tipped ball point<br>(21JAA224)        | 5 pcs.<br>(10, 20, 30, 30, 100 mm)                                                | 2902AB                                         |
| 7221A     |                                                                |                                                                                   | for Depth Gage                                 |
| 7222A     | Provided with a needle point<br>(137413)                       | —                                                                                 | 2902AB<br>for Depth Gage                       |
| 7223A     |                                                                |                                                                                   |                                                |
| 7224A     |                                                                |                                                                                   |                                                |
| 7231A     | Provided with a carbide-tipped ball point<br>(21JAA224: 17 mm) | 5 pcs.<br>(10, 20, 30, 30, 100 mm)<br>Interchangeable contact point<br>(21JAA226) | 1162A<br>for Depth Gage<br>(Back plunger type) |

• Parallelism adjustment with the bottom face of the base is required when mounting a flat contact point such as the flat/needle or carbide-tipped contact point.

## DIMENSIONS



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