Depth Gage

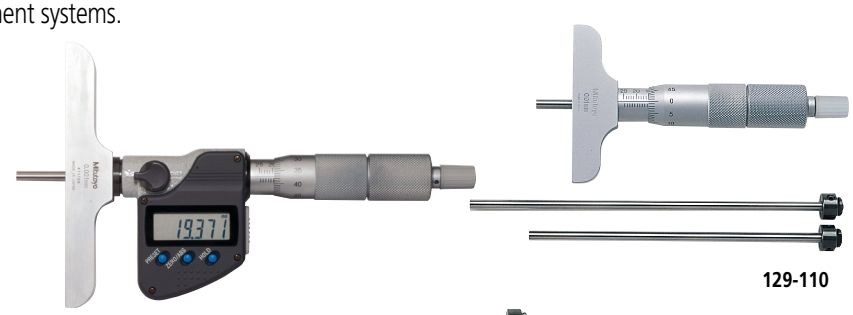
A standard measuring tool of industry

Depth Micrometer SERIES 329, 129 — Interchangeable Rod Type

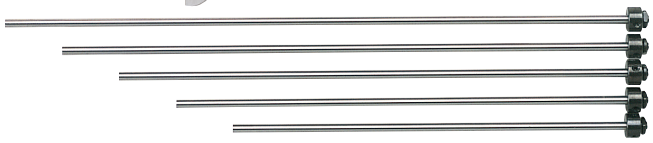
MeasurLink® ENABLED
Data Management Software by Mitutoyo

Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink (refer to page A-5 for details).

- This type uses interchangeable rods to enable wide-range measurement.
- **Order No. 329-250-30**, **329-251-30**, **329-350-30**, and **329-351-30** allow integration into statistical process control and measurement systems.
- Measuring rod diameter: 4 mm
- Measuring rod lock.
- Ratchet stop provides constant measuring force.



129-110



329-250-30

SPECIFICATIONS

Metric

Order No.	Range	Resolution	Base	No. of rods
Digimatic (LCD)				
329-250-30	0 - 150 mm	0.001 mm	101.6 x 16 mm	6
329-251-30	0 - 300 mm			12

Inch/Metric

Order No.	Range	Resolution	Base	No. of rods
Digimatic (LCD)				
329-350-30	0 - 6 in	0.00005 in/0.001 mm	4 in x 0.63 in	6
329-351-30	0 - 12 in	0.0001 in/0.001 mm		12

Metric

Order No.	Range	Graduation	Base	No. of rods
Analog				
129-154	0 - 25 mm	0.01 mm	63.5 x 16 mm	1
129-155			101.6 x 16 mm	
129-109	0 - 50 mm		63.5 x 16 mm	2
129-113			101.6 x 16 mm	
129-110	0 - 75 mm		63.5 x 16 mm	3
129-114			101.6 x 16 mm	
129-111	0 - 100 mm		63.5 x 16 mm	4
129-115			101.6 x 16 mm	
129-112	0 - 150 mm		63.5 x 16 mm	6
129-116			101.6 x 16 mm	
129-152	0 - 300 mm		63.5 x 16 mm	12
129-153			101.6 x 16 mm	

Inch

Order No.	Range	Graduation	Base	No. of rods
Analog				
129-129	0 - 2 in	0.001 in	4 in x 0.63 in	2
129-126	0 - 3 in		2.5 in x 0.63 in	3
129-130			4 in x 0.63 in	
129-127	0 - 4 in		2.5 in x 0.63 in	4
129-131			4 in x 0.63 in	
129-128	0 - 6 in		2.5 in x 0.63 in	6
129-132			4 in x 0.63 in	
129-149	0 - 12 in		2.5 in x 0.63 in	12
129-150			4 in x 0.63 in	

* For the function of Digimatic models **329-250-30**, **329-251-30**, **329-350-30**, and **329-351-30**, refer to page D-62. These models are not waterproof.

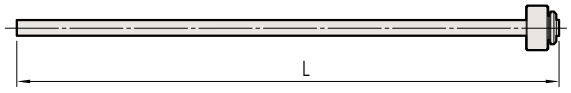
Technical Data

Accuracy:
±3 µm/±0.00015 inch for micrometer head
(Excluding quantizing error)
Flatness of reference face:
1.3 µm (0.00005 in) for 63.5 mm (2.5 in) length base,
2 µm (0.00008 in) for 101.6 mm (4 in) length base
Flatness of measuring rod face: 0.3 µm (0.000012 in)
Parallelism between reference face and measuring rod face:
(4+R/50) µm, R = Max. measuring length (mm)
[0.0002+0.00005(R/2)] in
Fraction rounded up
±(2+R/75) µm for interchangeable rod,
[0.0001+0.00005(R/3)] in
R = Max. range (mm)
Fraction rounded up
Battery: **SR44** (1 pc), **938882**,
for initial operational checks (standard accessory)
Battery life*: Approx. 2.4 years under normal use
* Digital models
Scale type: Electromagnetic induction absolute encoder

Optional accessories for 329-250-30, 329-251-30, 329-350-30, and 329-351-30.

For details, refer to page D-39.
Connection cable for **329-250-30**, **329-251-30**, **329-350-30**, and **329-351-30**
05CZA662: SPC cable with data button (1 m)
05CZA663: SPC cable with data button (2 m)
USB Input Tool Direct
06AFM380B: SPC cable for **USB-ITN-B** (2 m)
Wireless data output U-WAVE fit
U-WAVE-TC: **264-620** (IP67 type)
264-621 (Buzzer type)
Connecting unit for U-WAVE-TC:
02AZF310 (IP67 type)
02AZF300 (Buzzer type)
Refer to page A-15 for details

Interchangeable rod (Optional Accessories)
(Check and adjust the origin point before measurement)



Unit: mm

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

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

Functions of 329-250-30, 329-251-30, 329-350-30, and 329-351-30

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.

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.

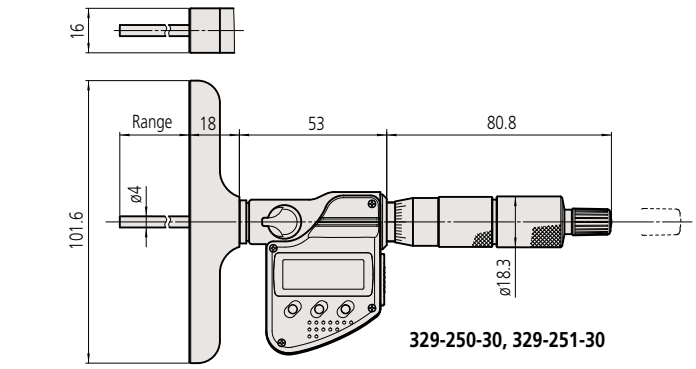
Auto power ON/OFF:
The reading on the LCD disappears after this instrument is idle for about 20 minutes, but the reading and measurement mode are retained. Turning the spindle causes the reading to reappear.

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

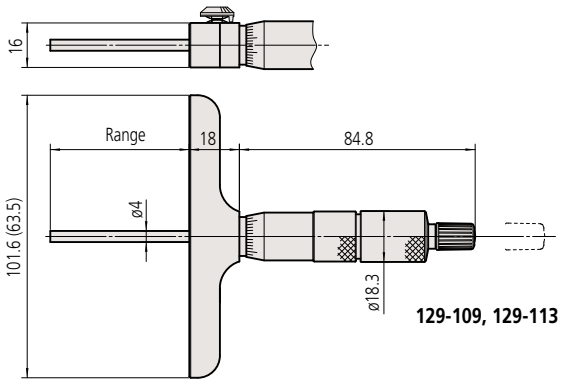
Error alarm:
In case of an overflow on the LCD or a computing error, an error message appears on the LCD, and the measuring function stops. This prevents an instrument from giving an erroneous reading. Also, when the battery voltage drops to a certain level, the low-battery-voltage alarm annunciator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

DIMENSIONS

Unit: mm



329-250-30, 329-251-30



129-109, 129-113

( ): **129-109**

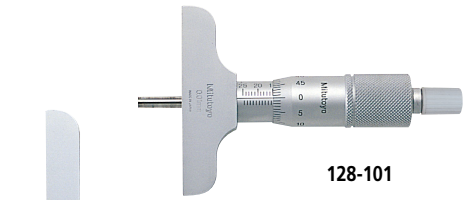
D

Depth Gage

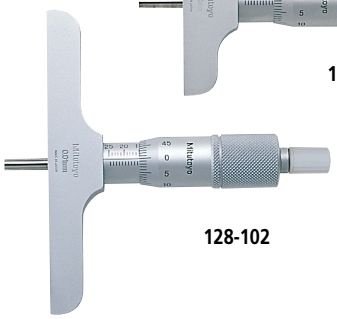
A standard measuring tool of industry

Depth Micrometer SERIES 128

- Measuring rod diameter: 4 mm
- Measuring rod lock is attached.
  *Measuring rod is attached on the rear side of the micrometer.
- Carbide-tipped measuring rod model is available.
- Ratchet stop provides constant measuring force.



128-101



128-102

SPECIFICATIONS

Metric

Order No.	Range	Graduation	Base
128-101	0 - 25 mm	0.01 mm	63.5 x 16 mm
128-103*1			
128-102			101.6 x 16 mm
128-104*1			

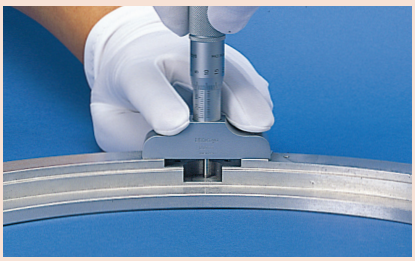
*1 with carbide-tipped measuring rod

Inch

Order No.	Range	Graduation	Base
128-105	0 - 1 in	0.001 in	2.5 in x 0.63 in
128-106			4 in x 0.63 in

Technical Data

Accuracy: ±3 µm (±0.00015 in)
Flatness of reference face:
1.3 µm (0.00005 in) for 63.5 mm (2.5 in) length base,
2 µm (0.00008 in) for 101.6 mm (4 in) length base
Flatness of measuring spindle face: 0.3 µm (0.000012 in)



Depth Micro Checker SERIES 515

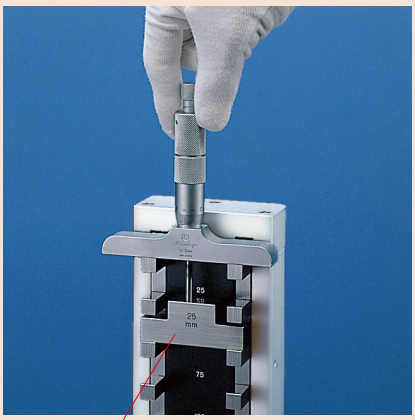
- The Depth Micro Checker is designed to check and help set the range-end points of a depth micrometer.

515-570

515-571

PROPRIETARY INSPECTION CERTIFICATE

An inspection certificate is supplied as standard. Refer to page X for details.



A 25 mm anvil block provides the reference surface for the depth micrometer rod

SPECIFICATIONS

Metric

Order No.	Range	Block pitch accuracy	Anvil block accuracy
515-570	0 - 150 mm	±(1+L/150) µm, L = Length to check (mm)	±0.5 µm
515-571	0 - 300 mm		

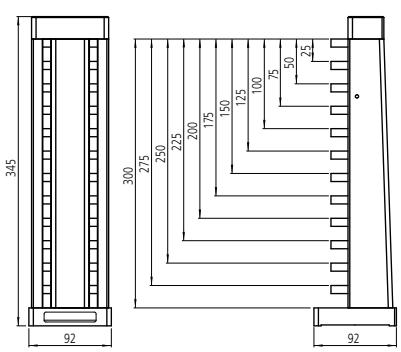
Inch

Order No.	Range	Block pitch accuracy	Anvil block accuracy
515-575	0 - 6 in	±(40+L/0.15) µinch, L = Length to check (inch)	±20 µinch

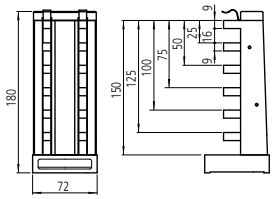
DIMENSIONS

Unit: mm

515-571



515-570



MeasurLink ENABLED Data Management Software by Mitutoyo

Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink (refer to page A-5 for details).

ABSOLUTE™ (Refer to page X for details.)

IP67 (Refer to page X for details.)

TÜVRheinland CERTIFIED www.tuv.com ID 0000045042 (Refer to page X for details.)

Optional accessories for IP67 coolant proof models

For details, refer to page D-39.
Connecting cables
05CZA624: SPC cable with data button (1 m)
05CZA625: SPC cable with data button (2 m)
USB Input Tool Direct
06AFM380A: SPC cable for **USB-ITN-A** (2 m)

Optional accessories for other than IP67 coolant proof models

For details, refer to page D-39.
959143: Data hold unit
Connecting cables for **IT/DP/MUX**
959149: SPC cable with data button (1 m)
959150: SPC cable with data button (2 m)
USB Input Tool Direct
06AFM380C: SPC cable for **USB-ITN-C** (2 m)

Wireless data output

U-WAVE fit
U-WAVE-TC: **264-620** (IP67 type)
264-621 (Buzzer type)
Connecting unit for U-WAVE-TC:
02AZF310 (IP67 type)
02AZF300 (Buzzer type)
Refer to page A-15 for details

ABSOLUTE Digimatic Depth Gage SERIES 571

MeasurLink ENABLED Data Management Software by Mitutoyo

- Coolant proof models achieve IP67 protection level.
- Enables stable depth measurement with a resolution of 0.01 mm.
- ABSOLUTE Digital Caliper (Refer to page D-8 for ABSOLUTE function).
- Sliding operation of models with the measuring ranges 150 mm (6 in), 200 mm (8 in) and 300 mm (12 in) is smooth and comfortable.
- Battery: **SR44** (1 pc), **938882**. For initial operational checks (standard accessory).
- Optional longer extension bases are available. (Except for models with measuring ranges of 600, 750, 1000 mm).

SPECIFICATIONS

Metric

Order No.	Range	Resolution	Accuracy*1	Repeatability	Base (W x T)	Battery life
571-201-30	0 - 150 mm	0.01 mm	±0.02 mm	0.01 mm	100 x 6 mm	5 years
571-202-30	0 - 200 mm					
571-203-20	0 - 300 mm		±0.03 mm			3.5 years
571-251-20*2	0 - 150 mm		±0.02 mm			5 years
571-252-20*2	0 - 200 mm					
571-253-10*2	0 - 300 mm		±0.03 mm		100 x 6.3 mm	1 years
571-204-10*3	0 - 450 mm	0.01 mm	±0.05 mm		250 x 10 mm	3 years
571-205-10*3	0 - 600 mm					
571-206-10*3	0 - 750 mm		±0.06 mm			
571-207-10*3	0 - 1000 mm		±0.07 mm			

*1: Excluding quantizing error of ±1 count
*2: IP67 Coolant Proof model
*3: Cannot be used with U-WAVE-TC

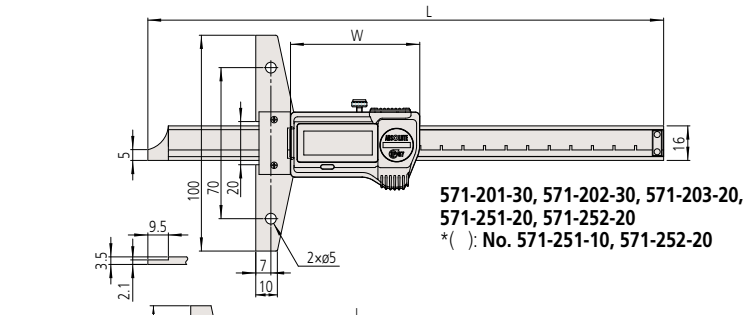
Inch/Metric

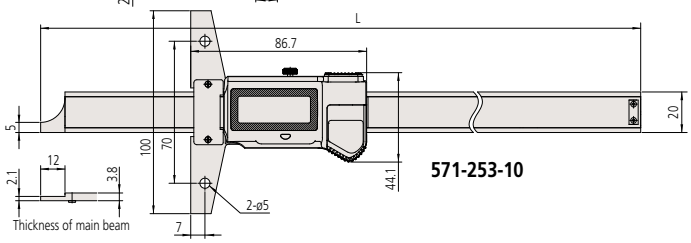
Order No.	Range	Accuracy*1	Repeatability	Base (W x T)	Battery life
571-211-30	0 - 6 in	±0.001 in/±0.02 mm	0.005 in/ 0.01 mm	3.93 in x 0.23 in	5 years
571-212-30	0 - 8 in	±0.001 in/±0.02 mm			
571-213-10	0 - 12 in	±0.0015 in/±0.03 mm			3.5 years
571-261-20*2	0 - 6 in	±0.001 in/±0.02 mm			5 years
571-262-20*2	0 - 8 in	±0.001 in/±0.02 mm			
571-263-10*2	0 - 12 in	±0.0015 in/±0.03 mm			1 years
571-214-10*3	0 - 18 in	±0.002 in/±0.05 mm		9.8 in x 0.39 in	3 years
571-215-10*3	0 - 24 in	±0.002 in/±0.05 mm			
571-216-10*3	0 - 30 in	±0.0025 in/±0.06 mm			
571-217-10*3	0 - 40 in	±0.0025 in/±0.07 mm			

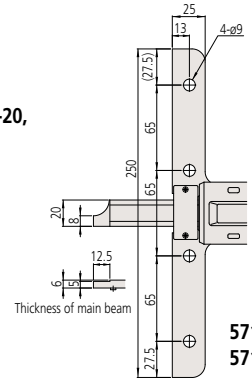
*1: Excluding quantizing error of ±1 count
*2: IP67 Coolant Proof model
*3: Cannot be used with U-WAVE-TC

DIMENSIONS

Unit: mm







Range	L	Base thickness
0 - 150 mm	239	6
0 - 200 mm	289	6
0 - 300 mm	403 (404)	6 (6.3)
0 - 450 mm	635	10
0 - 600 mm	785	10
0 - 750 mm	935	10
0 - 1000 mm	1200	10

( ): Coolant Proof models

D

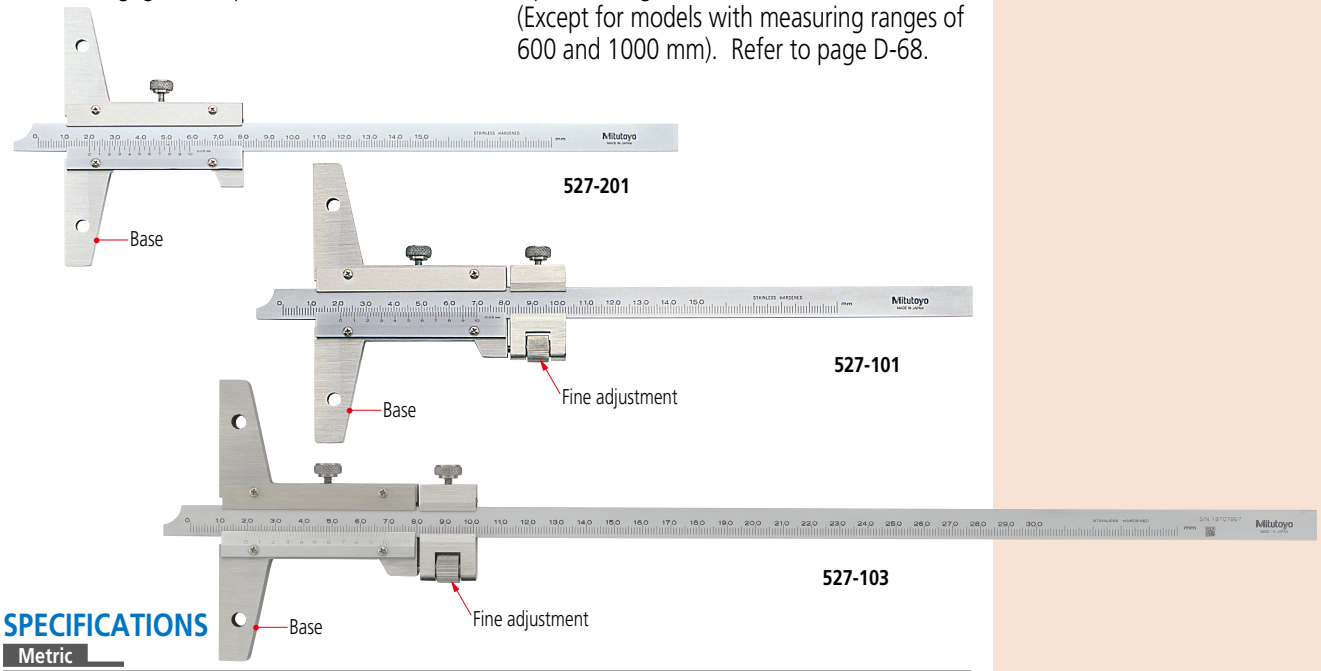
Mitutoyo

Depth Gage

A standard measuring tool of industry

Vernier Depth Gage
SERIES 527

- Standard gage for depth measurement.
- Optional longer extension bases are available. (Except for models with measuring ranges of 600 and 1000 mm). Refer to page D-68.



SPECIFICATIONS

Metric

Order No.	Range	Minimum reading	Accuracy	Base (W x T)	Remarks
527-201	0 - 150 mm	0.05 mm	±0.05 mm	100 x 6.5 mm	—
527-202	0 - 200 mm				—
527-203	0 - 300 mm		±0.08 mm		—
527-204	0 - 600 mm		±0.10 mm	250 x 10 mm	—
527-205	0 - 1000 mm		±0.15 mm		—

Metric

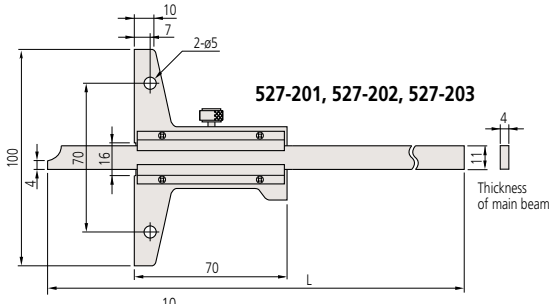
Order No.	Range	Minimum reading	Accuracy	Base (W x T)	Remarks
527-101	0 - 150 mm	0.02 mm	±0.03 mm	100 x 6.5 mm	with fine adjsutment
527-102	0 - 200 mm				
527-103	0 - 300 mm		±0.04 mm		

Inch

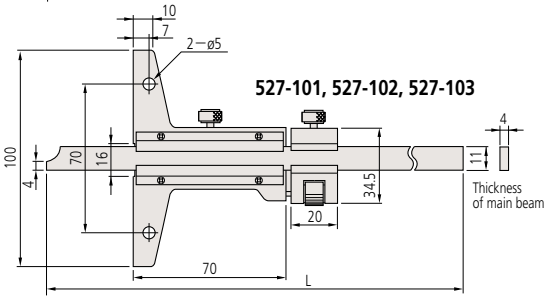
Order No.	Range	Minimam reading	Accuracy	Base (W x T)	Remarks
527-111	0 - 6 in	0.001 in	±0.001 in	3.93 in x 0.25 in	with fine adjustment
527-112	0 - 8 in				
527-113	0 - 12 in		±0.0015 in	9.8 in x 0.39 in	
527-114	0 - 24 in		±0.002 in		
527-115	0 - 40 in		±0.003 in		

DIMENSIONS

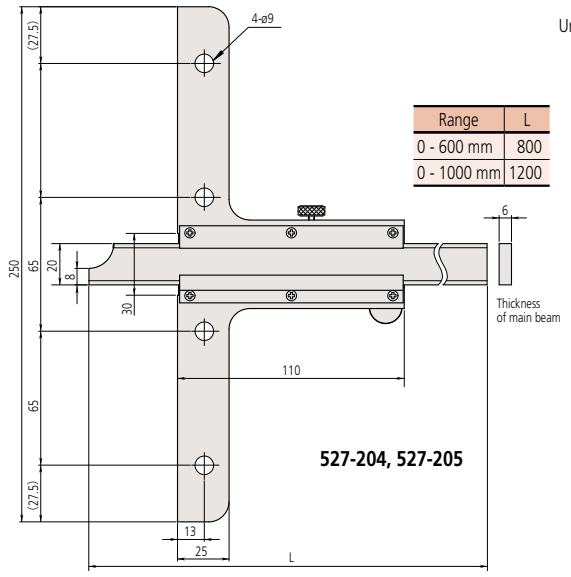
Unit: mm



Range	L
0 - 150 mm	260
0 - 200 mm	310
0 - 300 mm	410



Range	L
0 - 150 mm	260
0 - 200 mm	310
0 - 300 mm	410



Range	L
0 - 600 mm	800
0 - 1000 mm	1200

MeasurLink ENABLED
Data Management Software by Mitutoyo

Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink (refer to page A-5 for details).

ABSOLUTE™ (Refer to page X for details.)

IP67 (Refer to page X for details.)

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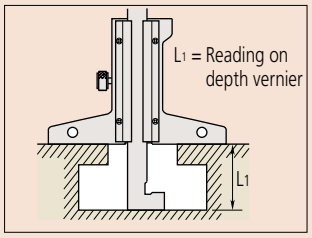
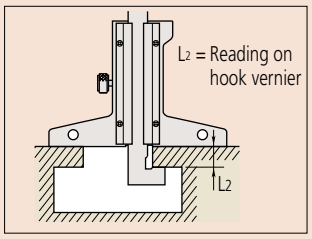
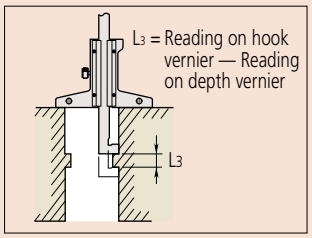
ID 0000045042

(Refer to page X for details.)

Applications







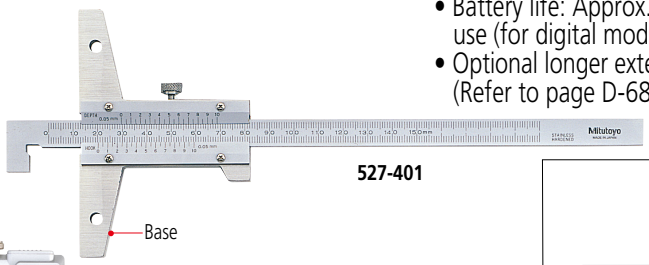
Optional accessories for digital models

For details, refer to page A-25.
Connection cables for coolant proof models
05CZA624: SPC cable with data button (1 m)
05CZA625: SPC cable with data button (2 m)
USB Input Tool Direct
06AFM380A: SPC cable for **USB-ITN-A** (2 m)
Wireless data output U-WAVE fit
U-WAVE-TC: **264-620** (IP67 type)
264-621 (Buzzer type)
Connecting unit for U-WAVE-TC:
02AZF310 (IP67 type)
02AZF300 (Buzzer type)
Refer to page A-15 for details

Depth Gage
SERIES 527, 571 — Hook End Type

MeasurLink® ENABLED
Data Management Software by Mitutoyo

- The end of the main beam is hook-shaped to allow depth and thickness measurements of a projected portion or lip in a hole, in addition to standard depth measurement.
- Coolant proof models achieve IP67 protection level.
- Enables stable depth measurement with a resolution of 0.01 mm.
- ABSOLUTE Digital Caliper (Refer to page D-8 for ABSOLUTE function.)
- Digital models display the compensation value by pressing the OFF switch to allow direct reading.
- Slider operation of the digital models is smooth and comfortable.
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. Refer to page A-3.
- Battery: **SR44** (1 pc), **938882**. For initial operational checks (standard accessory)
- Battery life: Approx. 5 years under normal use (for digital models)
- Optional longer extension bases are available. (Refer to page D-68.)



527-401

571-254-20

571-302-20

SPECIFICATIONS

Metric

Order No.	Range: L1 (L2 and L3)	Resolution/Graduation	Accuracy	Base (W×T)
Digimatic (LCD)				
571-254-20*	10.1 - 160 mm (0 - 150 mm)	0.01 mm	±0.03 mm	100×6 mm
571-255-20*	10.1 - 210 mm (0 - 200 mm)			
571-301-20*	0 - 150 mm		±0.02 mm	
571-302-20*	0 - 200 mm			
Analog				
527-401	10 - 150 mm (0 - 150 mm)	0.05 mm	±0.05 mm	100×6.5 mm
527-402	10 - 200 mm (0 - 200 mm)			
527-403	10 - 300 mm (0 - 300 mm)		±0.08 mm	
527-411	10 - 150 mm (0 - 150 mm)	0.02 mm	±0.03 mm	
527-412	10 - 200 mm (0 - 200 mm)			
527-413	10 - 300 mm (0 - 300 mm)		±0.04 mm	

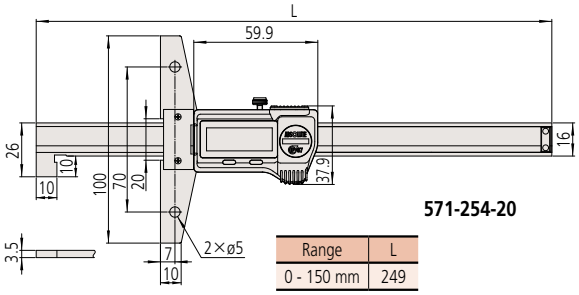
Inch/Metric

Order No.	Range: L1 (L2 and L3)	Resolution	Accuracy	Base (W×T)
Digimatic (LCD)				
571-264-20*	0.4 in - 6.4 in (0 - 6 in)	0.0005 in / 0.01 mm	±0.0015 in / ±0.03 mm	100×6 mm
571-265-20*	0.4 in - 8.4 in (0 - 8 in)			
571-311-20*	0-150 mm/0-6 in	0.0005 in / 0.01 mm	±0.001 in / ±0.02 mm	
571-312-20*	0-200 mm/0-8 in			

* Excluding quantizing error of ±1 count
* IP67 Coolant Proof model

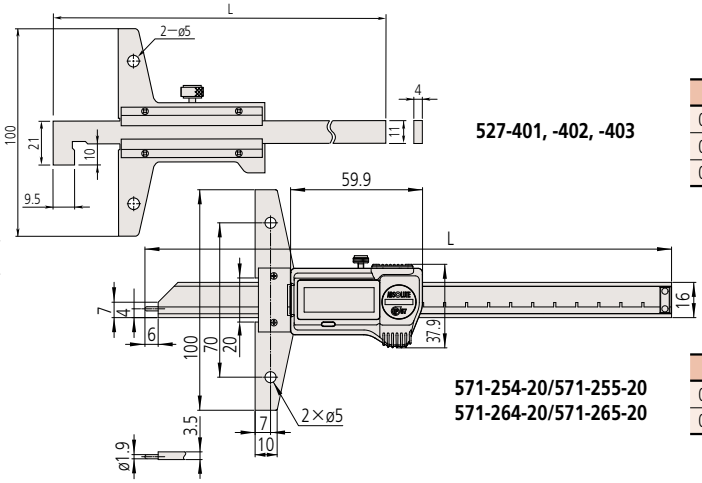
DIMENSIONS

Unit: mm



571-254-20

Range	L
0 - 150 mm	249



527-401, -402, -403

Range	L
0 - 150 mm	260
0 - 200 mm	310
0 - 300 mm	410

571-254-20/571-255-20
571-264-20/571-265-20

Range	L
0 - 150 mm	249
0 - 200 mm	299

D

Depth Gage

A standard measuring tool of industry

Tire tread Depth Gage SERIES 571

MeasurLink® ENABLED
Data Management Software by Mitutoyo

- This is a compact depth gage.
- Enables measurement of depth of tire groove.
- Digital display with 0.01mm resolution enables measurement without misreading.
- ABSOLUTE Digital Depth Gage.
- Battery: SR44 (1 pc), **938882**. For initial operational checks (standard accessory)
- Battery life: Approx. 5 years under normal use.
- Allows integration into statistical process control and measurement systems. Refer to page A-3.

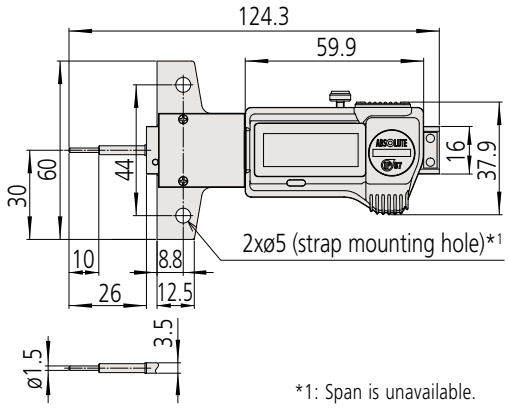
571-100-20

SPECIFICATIONS

Order No.	Range	Resolution	Base	Accuracy
571-100-20	0 - 25 mm	0.01 mm	60 mm	±0.02

DIMENSIONS

Unit: mm



*1: Span is unavailable.

MeasurLink® ENABLED
Data Management Software by Mitutoyo

Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink (refer to page A-5 for details).

ABSOLUTE™ (Refer to page X for details.)

IP67 (Refer to page X for details.)

TÜVRheinland CERTIFIED
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ID 0000045042

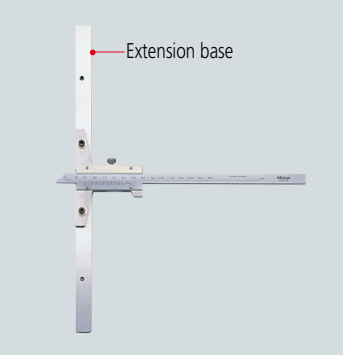
(Refer to page X for details.)

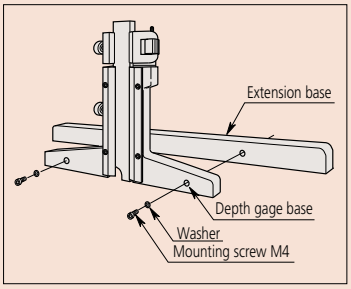
Optional accessories

For details, refer to page A-25.
Connecting cables
05CZA624: SPC cable with data button (1 m)*
05CZA625: SPC cable with data button (2 m)*
* For IP67 models
USB Input Tool Direct
06AFM380A: SPC cable for **USB-ITN-A** (2 m)
Wireless data output U-WAVE fit
U-WAVE-TC: **264-620** (IP67 type)
264-621 (Buzzer type)
Connecting unit for U-WAVE-TC:
02AZF310 (IP67 type)
02AZF300 (Buzzer type)
Refer to page A-15 for details

D

Example of 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.
- Refer to the illustrations at left for attachment details.
- Extension base is three times the length of the base for models of less than 300 mm range.
- These extension bases cannot be attached to 0-600 mm, 0-1000 mm, 0-24 inch and 0-40 inch range models.

900372

SPECIFICATIONS

Metric

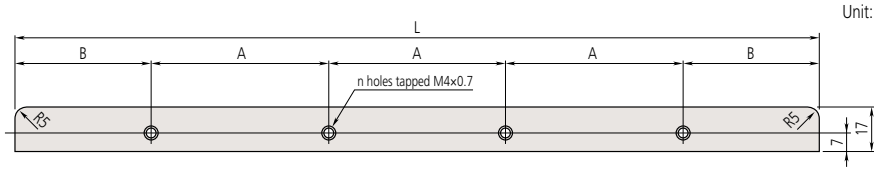
Order No.	Size L	n
900370	180 mm	2
900371	260 mm	5
900372	320 mm	4

Inch

Order No.	Size L	n
900367	7 in	2
900368	10 in	5
900369	12 in	4

DIMENSIONS

Unit: mm

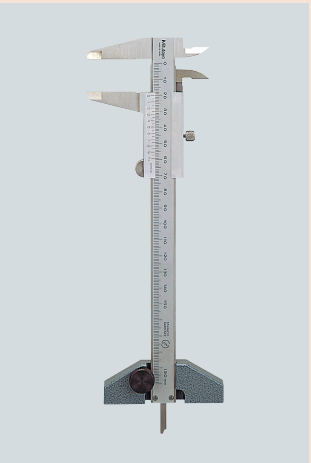


Order No.	L	A	B	n	T
900370	180	70	55	2	8
900371	260	35	60	5	
900372	320	70	55	4	

T: Base thickness

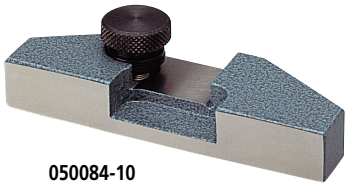
D

Example of attaching the extension base



Depth Gage Attachment
Optional Accessory for Calipers

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



050084-10

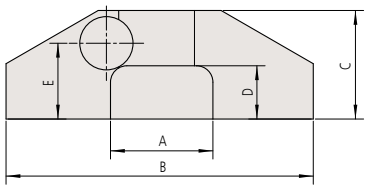
SPECIFICATIONS

Metric

Order No.	Size	Applicable measuring range of caliper
050083-10	75 mm	100 mm, 150 mm, 200 mm, 4 in, 6 in and 8 in
050084-10	100 mm	100 mm, 150 mm, 200 mm, 4 in, 6 in and 8 in
050085-10	125 mm	300 mm and 12 in

DIMENSIONS

Unit: mm



Size	A	B	C	D	E	T
75 mm	25	75	26.5	13	18.5	12
100 mm		100				
125 mm	30	125	28.5		20	14

T: Base thickness

Mitutoyo

Depth Gage

A standard measuring tool of industry

Dial Depth Gage SERIES 7

- Optimal for hole, narrow groove and step measurement.

7211

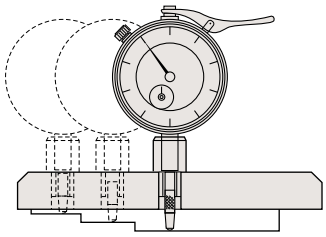
7214

7222

7224

7231

Example of use



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

Note 1

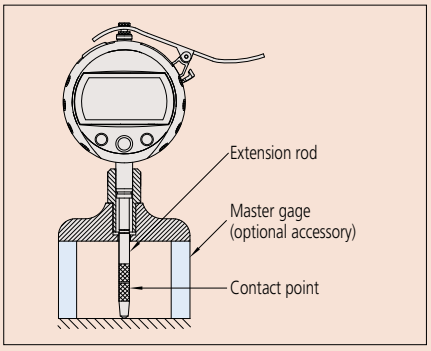
Caution should be exercised when exchanging a contact point of a Depth Gage (Dial/Digimatic Indicator):

- If a different size contact point is mounted, displacement of the contact point from the base contact surface will be changed and as a result, measurement range may not be maintained.
- A contact point cannot be mounted to a Depth Gage if its diameter is too large for the hole diameter of the base.
- 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.

Note 2

Caution should be exercised when using an extension rod:

- If the total length of the extension rod exceeds 110 mm (4.5 in) use the instrument in a vertical position (contact point downward).
- Use a master gage (such as Gauge blocks) to perform zero-setting when the extension rod is mounted. (Master gage is an optional accessory.)



Note 3

Caution should be exercised when indicators are used on a Depth Gage:

- When the indicator is exchanged and a longer extension rod is connected, the contact-point may deflect significantly with an adverse effect on measuring accuracy.
- Order No.543-400B / 543-402B for Depth Gage has a measuring force less than 1.5N.

D

Metric

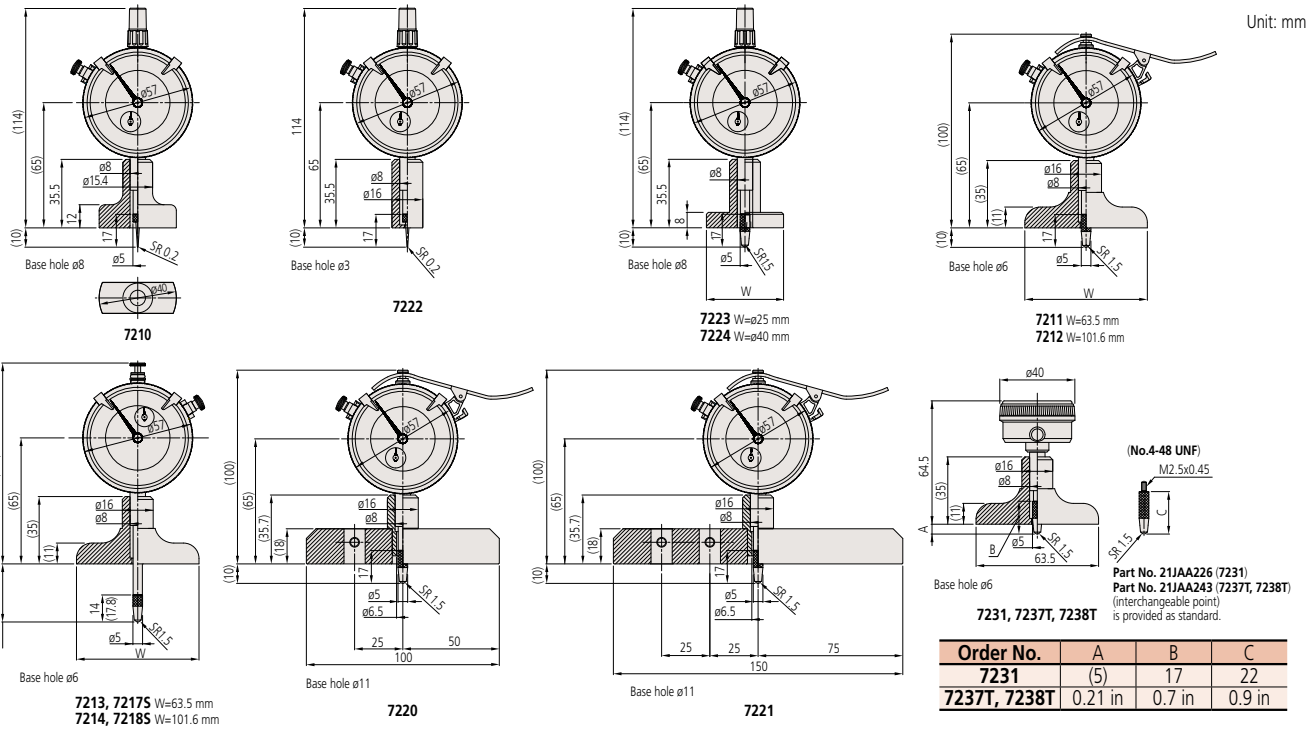
Order No.	Range	Graduation	Accuracy	Stroke	Measuring force	Base W	Base T	Base Flatness	Base Mounting position of a dial indicator	Contact point Note 1	Extension rod Note 2	Indicator Note 3 (dial indicator)
7210	0 - 10 mm	0.01 mm	±15 µm	10 mm	1.4 N	40 mm	16 mm	5 µm	1	Provided with a needle point (**137413**)	—	**2902SB** for Depth Gage
7211	0 - 200 mm					63.5 mm				Provided with a carbide-tipped ball point (**21JAA224**)	5 pcs. (10, 20, 30, 30, 100 mm)	
7212						101.6 mm						
7213	0 - 210 mm		±30 µm	30 mm	2.5 N	63.5 mm				Provided with a carbide-tipped ball point (**21JAA225**)	3 pcs. (30, 60, 90 mm)	**2952SB** for Depth Gage
7214						101.6 mm						
7220	0 - 200 mm		±15 µm	10 mm	1.4 N	100 mm	18 mm		2	Provided with a carbide-tipped ball point (**21JAA224**)	5 pcs. (10, 20, 30, 30, 100 mm)	**2902SB** for Depth Gage
7221						150 mm			3			
7222	0 - 10 mm					ø16 mm			1	Provided with a needle point (**137413**)	—	
7223						ø25 mm				Provided with a carbide-tipped ball point (**21JAA224**: 17 mm)		
7224						ø40 mm						
7231	0 - 200 mm			5 mm		63.5 mm	16 mm				5 pcs. (10, 20, 30, 30, 100 mm) Interchangeable contact point (**21JAA226**: 22 mm)	**1162T** for Depth Gage (Back plunger type)

Inch

Order No.	Range	Graduation	Accuracy	Stroke	Measuring force	Base W	Base T	Base Flatness	Base Mounting position of a dial indicator	Contact point Nnote 1	Extension rod Nnote 2	Indicator Nnote 3 (dial indicator)
7217S	0 - 8 in	0.001 in	±0.002 in	1 in	2.5 N	2.5 in	0.63 in	0.0002 in	1	Carbide ball point (**21JZA242**)	3 pcs. (1 in, 2 in, 4 in)	**2904SB** for Depth Gage
7218S						4 in						
7237T				0.2 in	1.4 N	2.5 in				Provided with a carbide-tipped ball point (**21JZA242**: 0.7 in)	4 pcs. (0.5 in, 1 in, 2 in, 4 in) Interchangeable contact point (**21JZA243**: 0.9in)	**1168T** for Depth Gage (Back plunger type)
7238T						4 in						

DIMENSIONS

Unit: mm



Order No.	A	B	C
7231	(5)	17	22
7237T, 7238T	0.21 in	0.7 in	0.9 in

MeasurLink ENABLED
Data Management Software by Mitutoyo

Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink (refer to page A-5 for details).

ABSOLUTE™ (Refer to page X for details.)

ABSOLUTE Digimatic Depth Gage SERIES 547

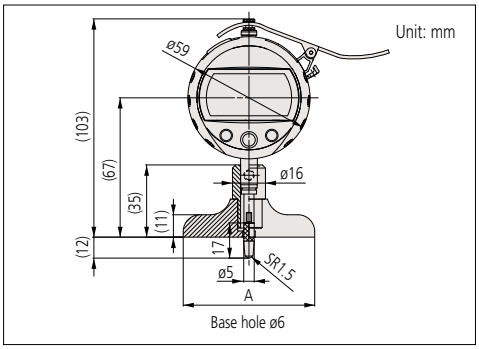
MeasurLink® ENABLED
Data Management Software by Mitutoyo

- Easy-to-read dial effectively prevents misreading.
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. Refer to page A-3.

547-211

DIMENSIONS

Unit: mm



SPECIFICATIONS

Metric

Order No.	Range	Resolution	Stroke	Accuracy Nnote 4	Measuring force	Base W	Base T	Base flatness	Contact point Nnote 1	Extension rod*2	Indicator Nnote 3
547-211	0 - 200 mm	0.01 mm	12.7 mm	±20 µm	1.5 N	63.5 mm	16 mm	5 µm	Provided with a carbide-tipped ball point (**No.21JAA224**)	5 pcs. (10, 20, 30, 30, 100 mm)	**543-400B** Nnote 3
547-212						101.6 mm					
547-251		0.001 mm		±5 µm		63.5 mm		2 µm			**543-390B**
547-252						101.6 mm					

Inch/Metric

Order No.	Range	Resolution	Stroke	Accuracy Nnote 4	Measuring force	Base W	Base T	Base flatness	Contact point Nnote 1	Extension rod Nnote 2	Indicator Nnote 3
547-217S	0 - 8 in	0.0005 in/0.01 mm	0.5 in	±0.001 in	1.5 N	2.5 in	0.63 in	0.0002 in	Provided with a carbide-tipped ball point (**No.21JZA242**)	4 pcs. (0.5 in, 1 in, 2 in, 4 in)	**543-402B** Nnote 3
547-218S						4 in					
547-257S		0.00005 in/0.001 mm		±0.0002 in		2.5 in		0.00008 in			**543-392B**
547-258S						4 in					

Note1 to 3: Refer to corresponding notes on page D-69.
Note4: Excluding quantizing error of ±1 count

Mitutoyo