

MEASURING TOOLS

DEPTH GAGES

DEPTH GAGES

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SMALL TOOLS

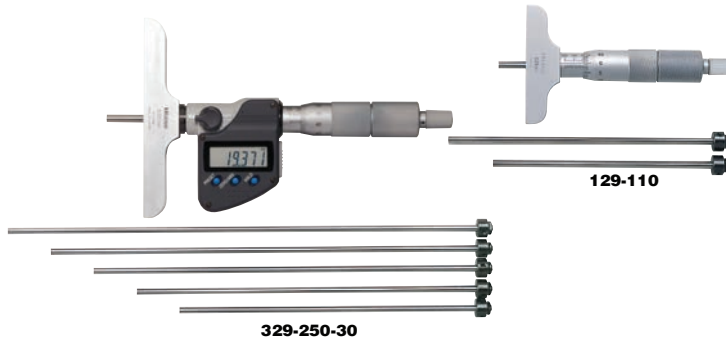
เครื่องมือวัดละเอียด

Mitutoyo

ไมโครมิเตอร์วัดความลึก

Depth Micrometer

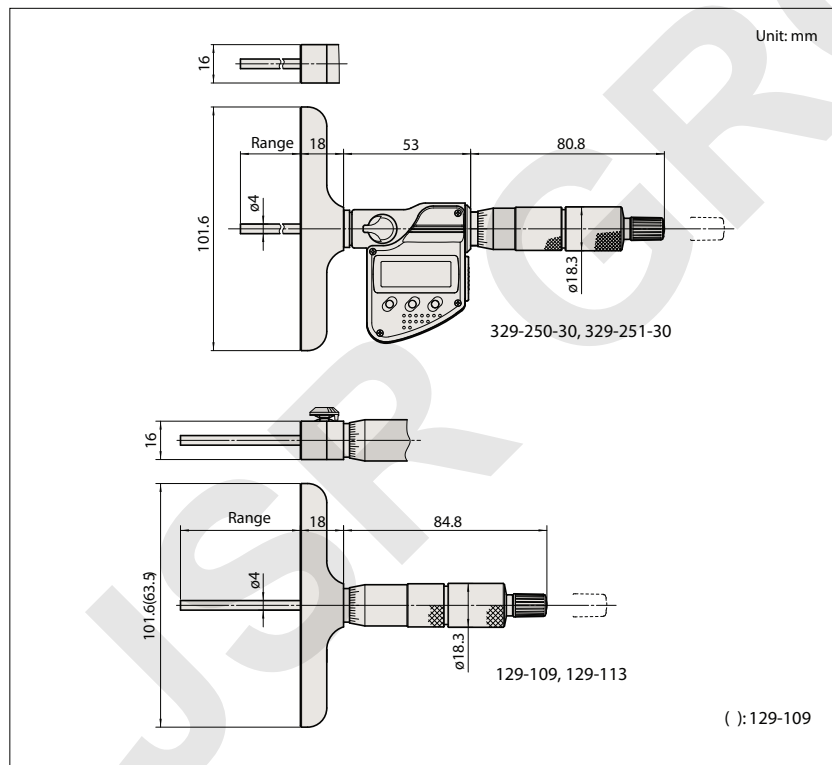
SERIES 329, 129 — Interchangeable Rod Type



FEATURE

- This type uses interchangeable rods to enable wide-range measurement.
- **Order Nos. 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: $\phi 4\text{mm}$
- Measuring rod lock.
- Ratchet stop provides constant measuring force.

DIMENSIONS



MeasurLink **ENABLED**

Data Management Software by Mitutoyo

Functions

Accuracy:
 $\pm 3\mu\text{m}/\pm 0.00015''$ for micrometer head
 (Excluding quantizing error)
Flatness of reference face:
 $1.3\mu\text{m}$ (.00005") for 63.5mm (2.5") length base,
 $2\mu\text{m}$ (.00008") for 101.6mm (4") length base
Flatness of measuring rod face: $0.3\mu\text{m}$ (.000012")
Parallelism between reference face and measuring rod face:
 $(4+R/50)\mu\text{m}$, $R = \text{Max. measuring length (mm)}$
 $[0.0002+0.00005(R/2)]$ in
 Fraction rounded up
 $\pm(2+R/75)\mu\text{m}$ for interchangeable rod,
 $[0.0001+0.00005(R/3)]$ in
 $R = \text{Max. range (mm)}$
 Fraction rounded up
Battery: **SR44** (1 pc), **9388882**
 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.

Connection cable for **329-250-30, 329-251-30, 329-350-30, and 329-351-30**
05CZA662: SPC cable with data button (1m)
05CZA663: SPC cable with data button (2m)
USB Input Tool Direct
06AFM380B: SPC cable for **USB-ITN-B** (2m)
 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-006 for details

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.

Metric

Order No.	Range	Resolution	Base	No. of rods
Digimatic (LCD)				
329-250-30	0 - 150mm	0.001mm	101.6x16mm	6
329-251-30	0 - 300mm			12

Inch / Metric

Order No.	Range	Resolution	Base	No. of rods
Digimatic (LCD)				
329-350-30	0 - 6"	.00005"/0.001mm	4"x.63"	6
329-351-30	0 - 12"	.0001"/0.001mm		12

Metric

Order No.	Range	Resolution	Base	No. of rods
Analog				
129-154	0-25mm	0.01mm	63.5x16mm	1
129-155			101.6x16mm	
129-109	0-50mm		63.5x16mm	2
129-113			101.6x16mm	
129-110	0-75mm		63.5x16mm	3
129-114			101.6x16mm	
129-111	0-100mm		63.5x16mm	4
129-115			101.6x16mm	
129-112	0-150mm		63.5x16mm	5
126-116			101.6x16mm	
129-152	0-300mm		63.5x16mm	6
129-153			101.6x16mm	

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

Interchangeable rod (Optional Accessories)

(Check and adjust the origin point before measurement)



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

Micrometer

ไมโครมิเตอร์

Inside

Measurement

เครื่องมือวัดภายใน

Calipers

คาร์ลิสเปอร์

Height Gages

เกจวัดความสูง

Linear Height

เครื่องมือวัดความสูง

Depth Gages

เกจวัดความลึก

Gauge Blocks

เกจบล็อก

Reference Gages

เครื่องมืออ้างอิง

Indicators

อินดิเคเตอร์

Stands

ขาตั้ง

SMALL TOOLS

เครื่องมือวัดละเอียด

Mitutoyo

ไมโครมิเตอร์วัดความลึก
Depth Micrometer
SERIES 128Micrometer
ไมโครมิเตอร์Inside
Measurement
เครื่องมือวัดภายในCalipers
คาลิเปอร์Height Gages
เกจวัดความสูงLinear Height
เครื่องมือวัดความสูงDepth Gages
เกจวัดความลึกGauge Blocks
เกจบล็อกReference Gages
เครื่องมืออ้างอิงIndicators
อินดิเคเตอร์Stands
ขาตั้ง

128-101

128-102

FEATURE

- Measuring rod diameter: $\phi 4\text{mm}$
- 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.

Metric

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

*1 with carbide-tipped measuring rod

เครื่องมือตรวจสอบ
Depth Micro Checker
SERIES 515

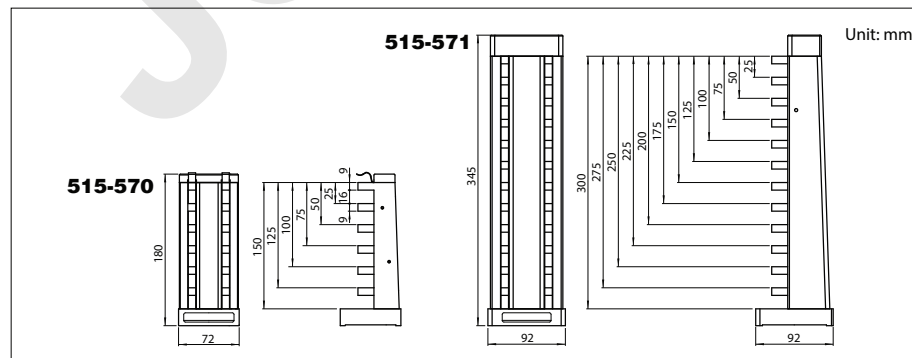
515-570

515-571

FEATURE

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

DIMENSIONS

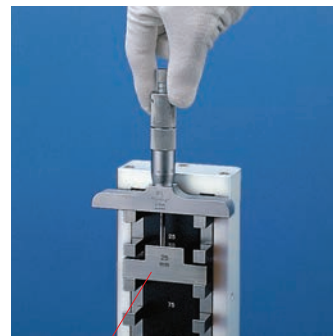
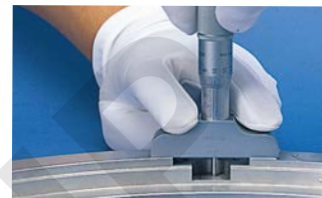


Metric

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

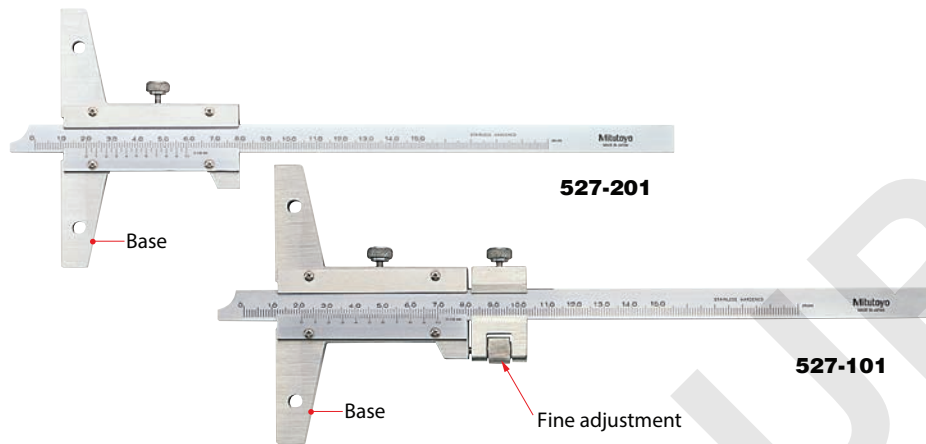
Functions

Accuracy: $\pm 3\mu\text{m}$ ($\pm 0.00015"$)
 Flatness of reference face:
 1.3 μm ($.00005"$) for 63.5mm (2.5") length base,
 2 μm ($.00008"$) for 101.6mm (4") length base
 Flatness of measuring spindle face: 0.3 μm ($.000012"$)



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

เวอร์เนียวัดความลึก

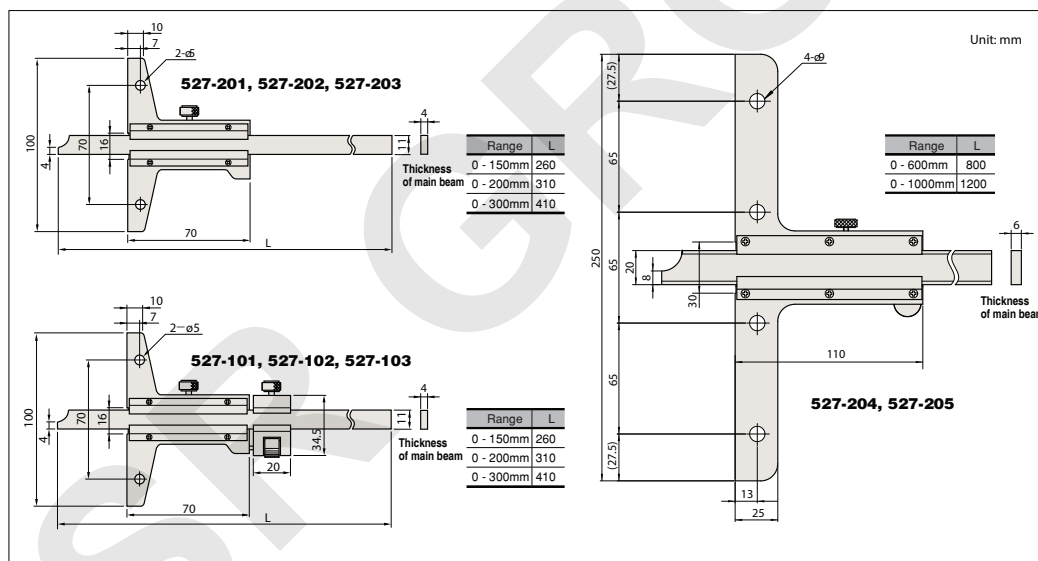
Vernier Depth Gages
SERIES 527

FEATURE

- Standard gage for depth measurement.

- Optional longer extension bases are available.
(Except for models with measuring ranges of 600 and 1000mm)

DIMENSIONS



Metric

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

Metric

Order No.	Range	Vernier	Accuracy	Base (WxT)	Remarks
527-101	0 - 150mm	0.02mm	±0.03mm	100 x 6.5mm	with fine adjustment
527-102	0 - 200mm				
527-103	0 - 300mm		±0.04mm		

SMALL TOOLS

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Mitutoyo

เวอร์เนียร์วัดความลึก

ABSOLUTE Digimatic Depth Gauge SERIES 571

MeasurLink[®] ENABLED
Data Management Software by Mitutoyo

ABSOLUTE[™]

IP67



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ID 0000045042

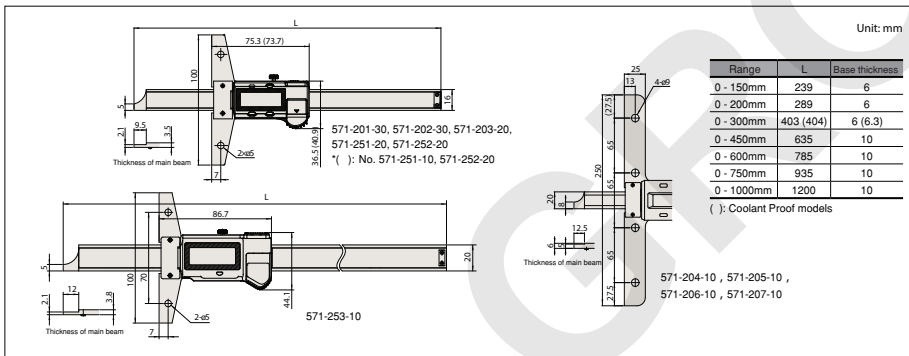


571-251-20 IP67



571-201-30

DIMENSIONS



Optional accessories for IP67 coolant proof models

Connecting cables
05CZA624: SPC cable with data button (1m)
05CZA625: SPC cable with data button (2m)
 USB Input Tool Direct
06AFM380A: SPC cable for USB-ITN-A (2m)

Optional accessories for other than IP67 coolant proof models

959143: Data hold unit
 Connecting cables for IT/DP/MUX
959149: SPC cable with data button (1m)
959150: SPC cable with data button (2m)
 USB Input Tool Direct
06AFM380C: SPC cable for USB-ITN-C (2m)

Wireless data output

U-WAVE[™]
 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-006 for details

Metric

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

* Excluding quantizing error

** IP67 Coolant Proof model

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

Inch / Metric

Order No.	Range	Accuracy*	Repeatability	Base (W x T)	Battery life
571-211-30	0 - 6"	±.001"/ ± 0.02mm	0.005" / 0.01mm	3.93" x .23"	5 years
571-212-30	0 - 8"	±.001"/ ± 0.02mm			3.5years
571-213-10	0 - 12"	±.0015"/ ± 0.03mm			5years
571-261-20**	0 - 6"	±.001"/ ± 0.02mm			1years
571-262-20**	0 - 8"	±.001"/ ± 0.02mm		9.8" x 0.39"	3years
571-263-10**	0 - 12"	±.0015"/ ± 0.03mm			
571-214-10***	0 - 18"	±.002"/ ± 0.05mm			
571-215-10***	0 - 24"	±.002"/ ± 0.05mm			
571-216-10***	0 - 30"	±.0025"/ ± 0.06mm			
571-217-10***	0 - 40"	±.0025"/ ± 0.07mm			

* Excluding quantizing error

** IP67 Coolant Proof model

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

เกจวัดความลึก

Depth Gauge

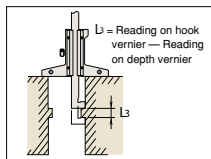
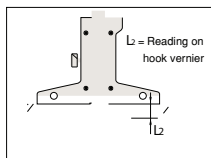
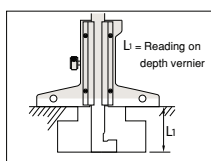
SERIES 527, 571 - Hook End Type

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Applications



Optional accessories for digital models

For details, refer to page A-022.

Connection cables for coolant proof models

05CZA624: SPC cable with data button (1m)

05CZA625: SPC cable with data button (2m)

USB Input Tool Direct

06AAFM380A: SPC cable for USB-ITN-A (2m)

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-006 for details

Metric

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

* Excluding quantizing error of ±1 count

** IP67 Coolant Proof model

Inch / Metric

Order No.	Range : L1 (L2 and L3)	Resolution	Accuracy*	Base (WxT)	
Digimatic (LCD)					
571-264-20*	.4" - 6.4" (0 - 6")	.0005" / 0.01mm	±0.0015"/±0.03mm	100 x 6mm	
571-265-20*	.4" - 8.4" (0 - 8")				
571-311-20*	0-150 mm/0-6"	.0005" / 0.01mm	±0.001"/±0.02mm		
571-312-20*	0-200 mm/0-8"				

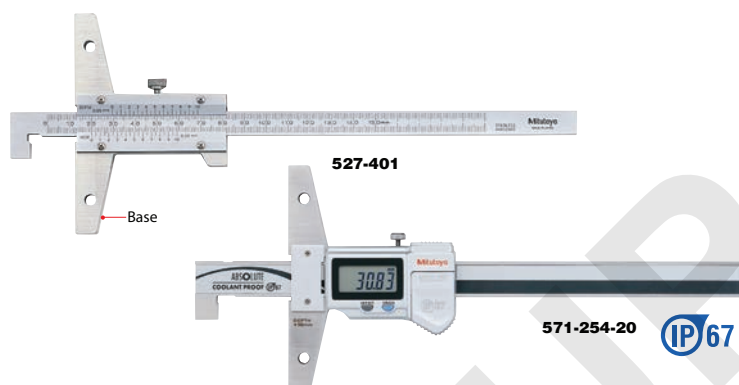
* Excluding quantizing error of ±1 count

** IP67 Coolant Proof model

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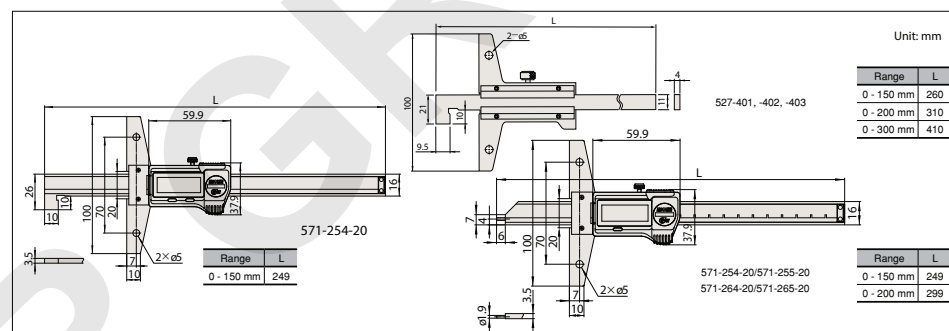
ห้ามนำใบเผยแพร่ก่อนได้รับอนุญาตจากทางบริษัท



FEATURE

- 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 0.01mm.
- 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-002.
- 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.

DIMENSIONS



Micrometer

ไมโครมิเตอร์

Inside

Measurement

เครื่องมือวัดภายใน

Calipers

คาร์ลเปอร์

Height Gages

เกจวัดความสูง

Linear Height

เครื่องมือวัดความสูง

Depth Gages

เกจวัดความลึก

Gauge Blocks

เกจบล็อก

Reference Gages

เครื่องมืออ้างอิง

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อินดิเคเตอร์

Stands

ขาตั้ง

SMALL TOOLS

เครื่องมือวัดละเอียด

Mitutoyo

เกจวัดความลึก

Tire tread Depth Gage SERIES 571



571-100-20

MeasurLink® ENABLED
Data Management Software by Mitutoyo

ABSOLUTE™

IP67



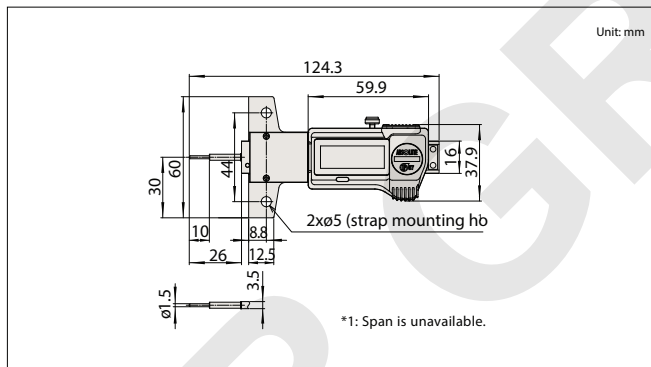
Optional accessories

For details, refer to page A-022.
Connection cables for coolant proof models
05CZA624: SPC cable with data button (1m)
05CZA625: SPC cable with data button (2m)
USB Input Tool Direct
06AAF380A: SPC cable for USB-ITN-A (2m)
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-006 for details

FEATURE

- 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-002.

DIMENSIONS



*1: Span is unavailable.

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

เกจวัดความลึก

DIGITAL MINI DEPTH GAUGE

Bluetooth BOX (separately sold) can be attached.
High resolution 0.01mm digital mini depth gauge.



USE :

- Depth measurement

MATERIAL :

- Stainless steel

FEATURES

- 1.5mm probe for narrow hole measurement
- Bluetooth BOX (separately sold) can be attached
- Display hold function
- Auto display off function (after approx. 20 min.)

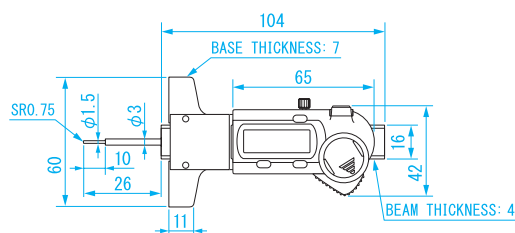
POWER

- CR2032 (lithium) battery included for testing



DIMENSIONS

Units: mm



※ Quantization Error (±1 digit) not included

Order No.	Model No.	Measuring Range (mm)	Resolution (mm)	Accuracy* (mm)	Weight
GDCS-25STG	151997	0-25	0.01	±0.02	165g

Micrometer

ไมโครมิเตอร์

Inside

Measurement

เครื่องมือวัดภายใน

Calipers

คาร์ลิเปอร์

Height Gages

เกจวัดความสูง

Linear Height

เครื่องมือวัดความสูง

Depth Gages

เกจวัดความลึก

Gauge Blocks

เกจบล็อก

Reference Gages

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Stands

ขาตั้ง

เกจวัดความลึก

DIGITAL MINI DEPTH GAUGE

Suitable for measuring tire depth



USE :

- For measuring depth

MATERIAL :

- Plastic (ABS resin, carbon composite plastic)

FEATURES

- For simple and quick depth measurement
- Display hold function
- Auto display off function (after approx. 5 min.)

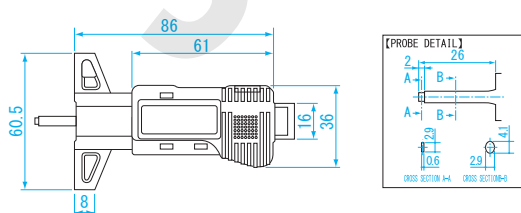
POWER

- CR2032 (lithium) battery included for testing



DIMENSIONS

Units: mm



※ Quantization Error (±1 digit) not included

Order No.	Model No.	Measuring Range (mm)	Resolution (mm)	Accuracy* (mm)	Weight
DMD-25G	151195	0-25	0.1	±0.2	40g

SMALL TOOLS

เครื่องมือวัดละเอียด

Mitutoyo

อุปกรณ์เสริมเกจวัดความลึก

Extension Bases

Optional accessory for Depth Gauge

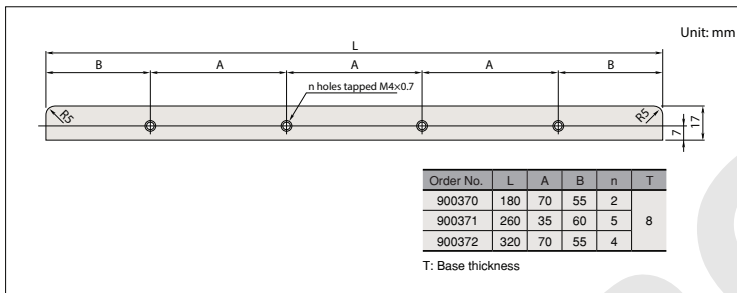


900372

FEATURE

- 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 300mm range.
- These extension bases cannot be attached to 0-600mm, 0-1000mm, 0-24" and 0-40" range models.

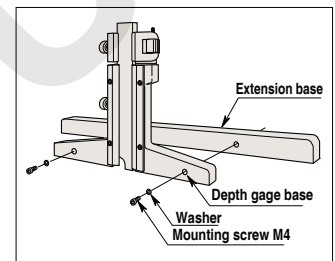
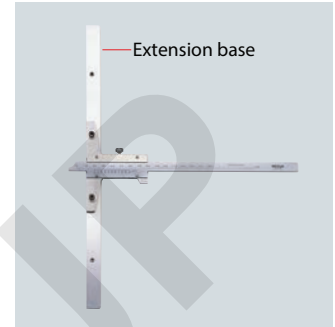
DIMENSIONS



Metric

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

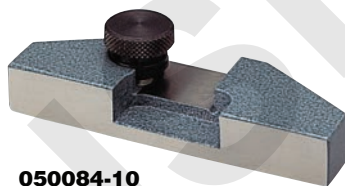
Example of attaching the extension base



อุปกรณ์เสริมเกจวัดความลึก

Depth Gage Attachment

Optional Accessory for Calipers

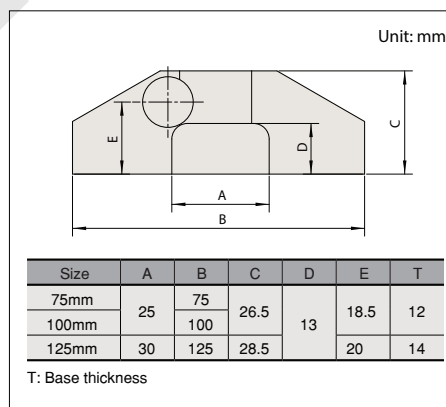


050084-10

FEATURE

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

DIMENSIONS



Metric

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

Example of attaching the extension base



เกจวัดความลึก

Dial Depth Gage
SERIES 7

Note 1

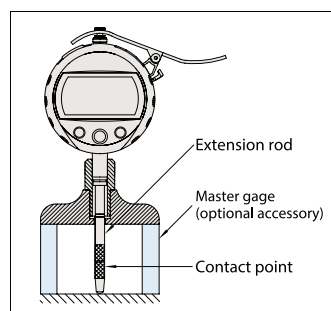
Caution should be exercised when exchanging a contact point of a Depth Gage (Dial/Digimatic Indicator):

- 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:

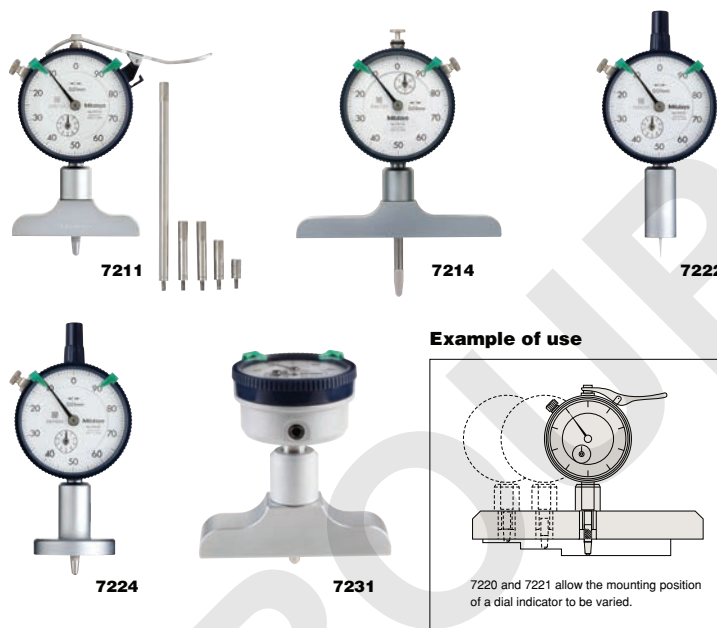
- If the total length of the extension rod exceeds 110 mm (4.5 in) use the instrument in a vertical position (contact point downward).
- Use a master gage (such as Gauge blocks) to perform zero-setting when the extension rod is mounted. (Master gage is an optional accessory.)



Note 3

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

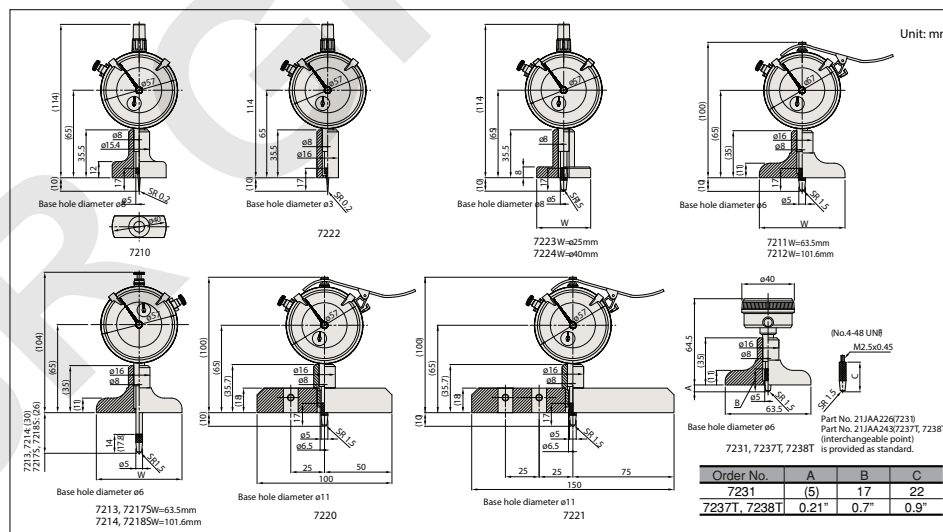
- When the indicator is exchanged and a longer extension rod is connected, the contact-point may deflect significantly with an adverse effect on measuring accuracy.
- Order No.543-400B / 543-402B for Depth Gage has a measuring force less than 1.5N.



FEATURE

- Optimal for hole, narrow groove and step measurement.

DIMENSIONS



SMALL TOOLS

เครื่องมือวัดละเอียด

Mitutoyo

DEPTH GAGES
เกจวัดความลึก

Metric

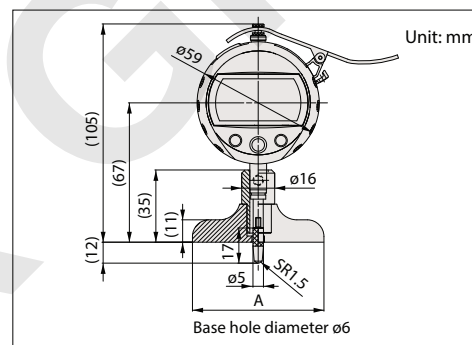
Order No.	Range	Graduation	Accuracy	Stroke	Measuring force	Base				Contact point*1	Extension rod*2	Indicator*3 (dial indicator)
						W	T	Flatness	Mounting position of a dial indicator			
7210	0 - 10mm					40mm				Provided with a needle point (No. 137413)	-	
7211	0 - 200mm		±15µm	10mm	1.4N	63.5mm				Provided with a carbide	5 pcs.	2902SB for Depth Gauge
7212						101.6mm	16mm		1	tipped ball point (No. 21JAA224)	(10, 20, 30, 30, 100mm)	
7213	0 - 210mm		±30µm	30mm	2.5N	63.5mm				Provided with a carbide	3 pcs.	2952SB
7214						101.6mm				tipped ball point (No. 21JAA225)	(30, 60, 90mm)	for Depth Gauge
7220	0 - 200mm	0.01mm				100mm	18mm	5µm	2	Provided with a carbide	5 pcs.	
7221						150mm			3	tipped ball point (No. 21JAA224)	(10, 20, 30, 30, 100mm)	2902SB
7222			±15µm	10mm	1.4N	ø16mm				Provided with a needle point (No. 137413)		for Depth Gauge
7223	0 - 10mm					ø25mm			1		-	
7224						ø40mm				Provided with a carbide tipped ball point (No. 21JAA224 : 17mm)	5 pcs. (10, 20, 30, 30, 100mm) Interchangeable contact point (21JAA226 : 22 mm)	1162T for Depth Gauge (Back plunger type)
7231	0 - 200mm			5mm		63.5mm	16mm					

ไมโครมิเตอร์วัดความลึก ABSOLUTE Digimatic Depth Gauge SERIES 547

MeasurLink[®] ENABLED
Data Management Software by Mitutoyo



DIMENSIONS



ABSOLUTE™

FEATURE

- 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-002.

Metric

Order No.	Range	Resolution	Stroke	Accuracy	Measuring force	Base			Contact point*1	Extension rod*2	Indicator*3 (dial indicator)
						W	T	Flatness			
547-211	0-200mm	0.01mm	12.7mm	±20µm	1.5N	63.5mm	16mm	5µm	Provided with a carbide-tipped ball	5 Pcs.	534-400B *3
547-212		0.001mm		±5µm		101.6mm		2µm	point	(10, 20, 30, 30, 100mm)	
547-251						63.5mm					
547-252						101.6mm			(No. 21JAA224)		543-390B

Inch / Metric

Order No.	Range	Resolution	Stroke	Accuracy	Measuring force	Base			Contact point*1	Extension rod*2	Indicator*3 (dial indicator)
						W	T	Flatness			
547-217S		.0005"/		±.001"		2.5"			Provided with a carbide-tipped ball point (No.21JZA242)		
547-218S	0 - 8"	0.01mm	.5"	±.0002"	1.5N	4"	.63"			4 Pcs.	534-402B*3
547-257S		.00005"/				2.5"				(.5", 1", 2", 4")	
547-258S		0.001mm				4"		.00008"			543-392B

*1 to *3: Refer to page F-010.

*4: Excluding quantizing error of ±1 count

Micrometer
ไมโครมิเตอร์Inside
Measurement
เครื่องมือวัดภายในCalipers
คาลิเปอร์Height Gages
เกจวัดความสูงLinear Height
เครื่องมือวัดความสูงDepth Gages
เกจวัดความลึกGauge Blocks
เกจบล็อกReference Gages
เครื่องมืออ้างอิงIndicators
อินดิเคเตอร์Stands
ขาตั้ง

เกจวัดความลึก

POCKET DEPTH GAUGE

Features

Using for depth measuring of holes, slots, projections, etc.

Since Pocket Depth Gauge is compact in size, it can measure efficiently while work pieces are set on machine tools.

Material : Stainless Steel

Accuracy : ±0.05mm

Order No.	Model No.	Size Composition/Contents
03-402	50M (PDG-50)	Range: 50mm Vernier Scale: 1/20mm

Tire Grooving Depth Gauge

Accuracy : ±0.02mm

Order No.	Model No.	Size Composition/Contents
03-403	TDG-20	Range : 20mm (Limits : ▲)



FUJI TOOL



50M

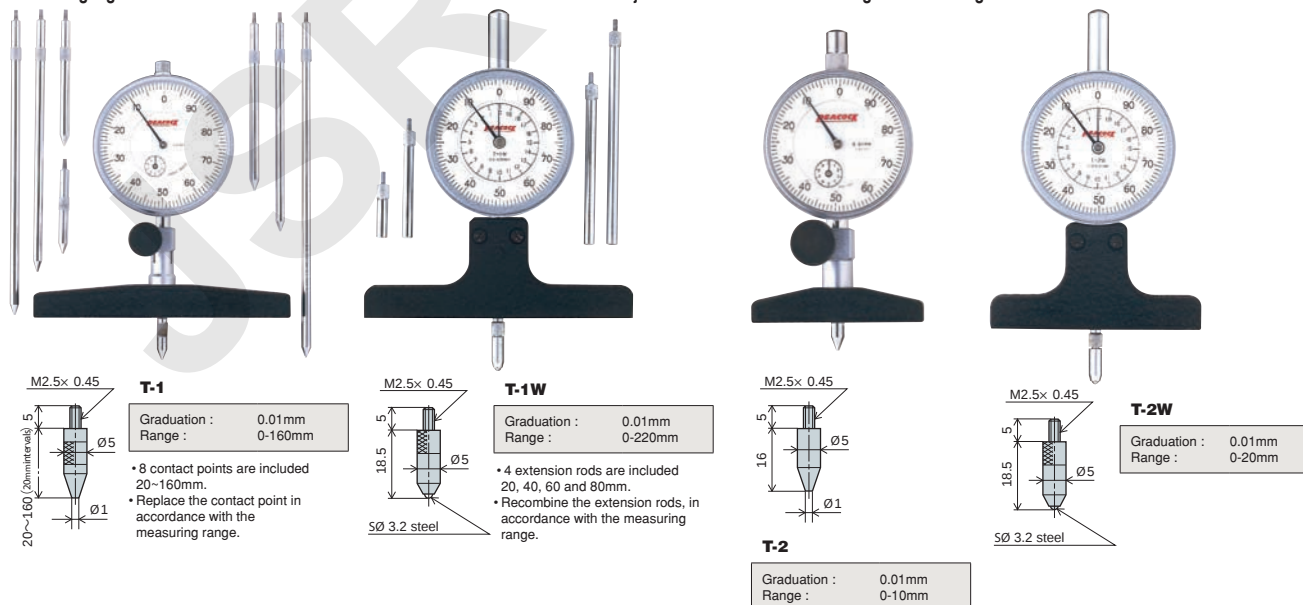


TDG-20

เกจวัดความลึก

Dial Depth Gauges

It measure a depth from top bottom of bottomed holes, a depth of narrow grooves, a value of step height of stepped surfaces and a depth of types engraved in matrices.
The dial gauge furnished offers a correct measured value since it can measure an object under measurement with a given measuring force.



SMALL TOOLS

เครื่องมือวัดละเอียด

SINCE 1916
PEACOCK

DEPTH GAGES

เกจวัดความลึก

Micrometer

ไมโครมิเตอร์

Inside

Measurement

เครื่องมือวัดภายใน

Calipers

คาร์ลิเปอร์

Height Gages

เกจวัดความสูง

Linear Height

เครื่องมือวัดความสูง

Depth Gages

เกจวัดความลึก

Gauge Blocks

เกจบล็อก

Reference Gages

เครื่องมืออ้างอิง

Indicators

อินดิเคเตอร์

Stands

ขาตั้ง



T-2B

Graduation : 0.01mm

Range : 0-5mm

• The dial face is at a right angle with the contact point, which facilitate easy reading from the upside.



T-2C

Graduation : 0.01mm

Range : 0-10mm

• Needle Contact Point (XT-2C)



T-3

Graduation : 0.01mm

Range : 0-10mm

• Needle Contact Point (XT-3)

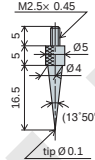
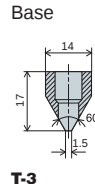
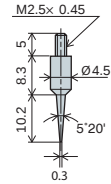
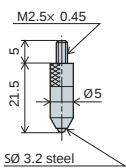


T-4

Graduation : 0.001mm

Range : 0-1mm

• Needle Contact Point (XT-4)



Order No.	Range (mm)	Indication error (mm)	Dial Gauge				Base	
			Gauge installed	Graduation (mm)	Range (mm)	Measuring force less than (N)	Length (mm)	Width (mm)
T-1	0 ~ 160	±20	207F-T	0.01	20	2.0	120	14
T-1W	0 ~ 220	±20	207WF-T	0.01	20	2.0	100	11
T-2	0 ~ 10	±15	107F-T	0.01	10	1.4	60	14
T-2W	0 ~ 20	±20	207WF-T	0.01	20	2.0	75	11
T-2B	0 ~ 5	±20	196B-T	0.01	5	1.4	75	11
T-2C	0 ~ 10	±15	107F-T	0.01	10	1.4	75	11
T-3	0 ~ 10	±15	107F-T	0.01	10	1.4	60	Shown in above figure
T-4	0 ~ 1	±5	5F ※	0.001	1	1.5	40	10

※ 5F with Reversed Inner Dial

※ Base is hardened and polished.

เกจวัดความลึก

Dial Depth Gauges

Round Base type



• Base Outer dia. Ø25.0
• Needle Contact Point dia.Ø2.0

T-6A

Graduation : 0.01mm

Range : 0-10mm



• Base Outer dia. Ø25.0
• Needle Contact Point dia.Ø1.0

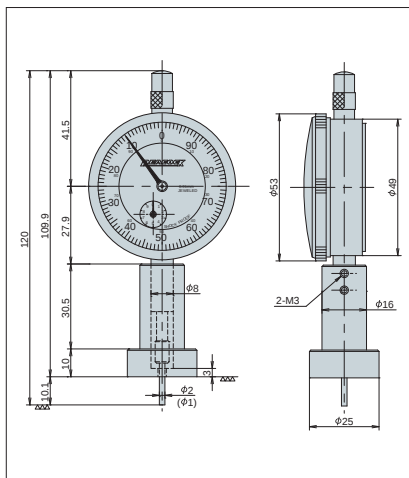
T-6B

Graduation : 0.01mm

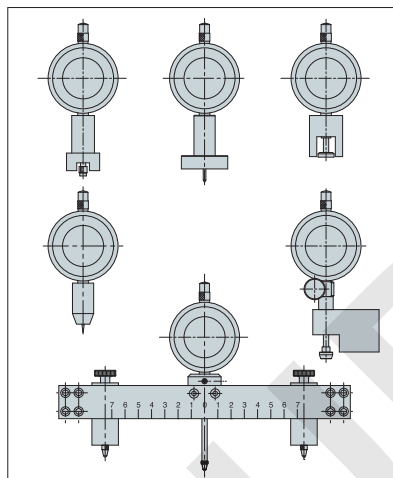
Range : 0-10mm

Order No.	Range (mm)	Indication error (mm)	Dial Gauge				Base	
			Gauge installed	Graduation (mm)	Range (mm)	Measuring force less than (N)	Length (mm)	Width (mm)
T-6A	0 ~ 10	±15	107F-T	0.01	10	1.4	-	-
T-6B	0 ~ 10	±15	107F-T	0.01	10	1.4	-	-

Dimensions (※ () are T-6B)



Custom order available



ดิจิทัลดีฟเกจ

Digital Depth Gauges



T1-205

Graduation : 0.001 mm
Range : 20 mm



T1-257

Graduation :	0.01mm
Range :	20mm



T2-127

Graduation :	0.01mm
Range :	10mm



T2-205W

Graduation :	0.001mm
Range :	20mm

T2-257W

Graduation :	0.01mm
Range :	20mm

- Contact Point (XS-315)

T3-127

Graduation :	0.01mm
Range :	10mm

- Contact Point (XT-3)



T5-127

Graduation :	0.01mm
Range :	10mm

- Contact Point (XT-4)



T6-127

Graduation :	0.01mm
Range :	10mm

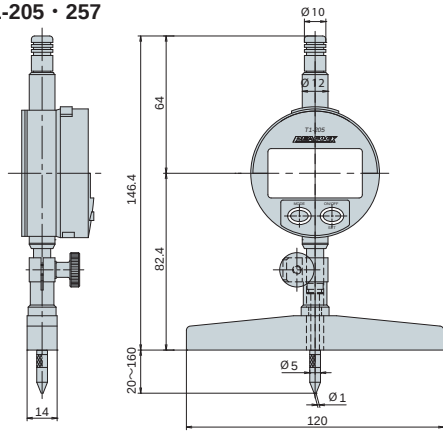
SMALL TOOLS

เครื่องมือวัดละเอียด

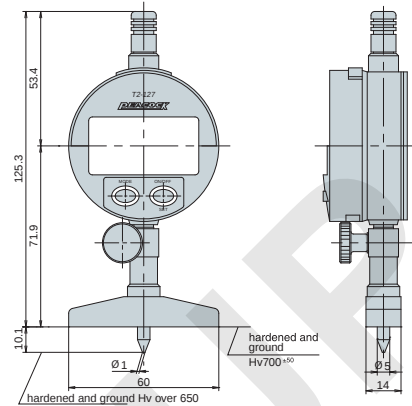
SINCE 1916
PEACOCK

Dimensions for Digital Depth Gauges

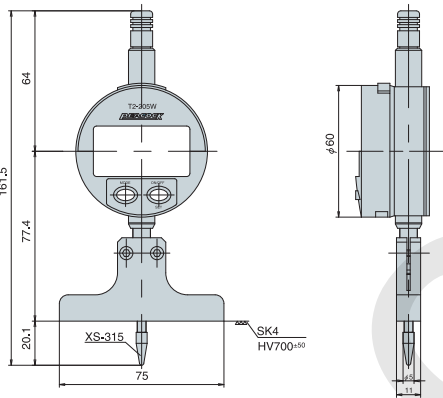
T1-205 · 257



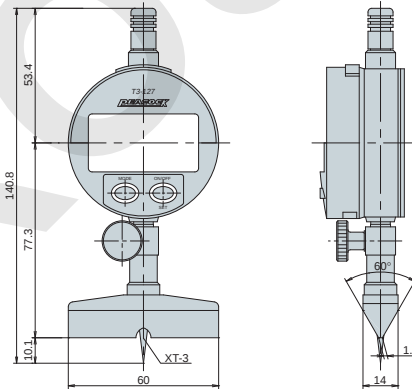
T2-127



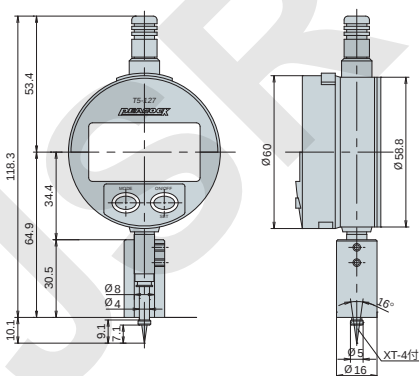
T2-205W · 257W



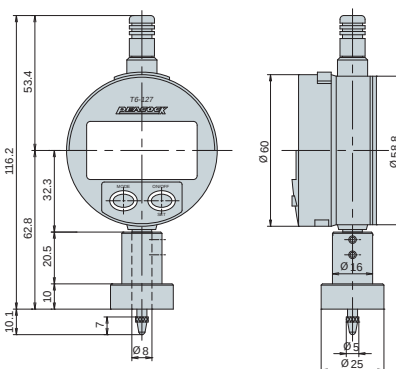
T3-127



T5-127



T6-127



Order No.	Graduation (mm)	Accuracy (mm) (excluding quantized error)	Gauge installed	Range (mm)	Base flatness (mm)	Option
T1-205	0.001	±0.004	DG-205	20	0.005	7 contact points 40-160mm
T1-257	0.01	±0.02	DG-257	20	0.005	(20mm intervals)
T1-127	0.01	±0.02	DG-127	10	0.005	-
T2-205W	0.001	±0.004	DG-205	20	0.005	-
T2-257W	0.01	±0.02	DG-257	20	0.005	-
T3-127	0.01	±0.02	DG-127	10	0.005	-
T5-127	0.01	±0.02	DG-127	10	0.005	-
T6-127	0.01	±0.02	DG-127	10	0.005	-

เกจวัดความลึก

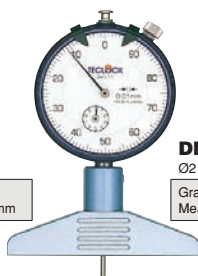
Dial Depth Gauge

- Dial Depth Gauge can be used to measure depth and steps of work piece and coating thickness.
- 5-240mm range (with the supplied extension rods) are available for wide application.
- Special order is applicable for contact point and base.
- Low measuring force type is also available, which seldom hurts work piece.
- Lifting lever (Option) can be mounted.

Measuring Range:10mm



DM-210
Needle Contact Point
Graduation 0.01mm
Measuring Range 10mm



DM-211
O2 Flat Contact Point
Graduation 0.01mm
Measuring Range 10mm

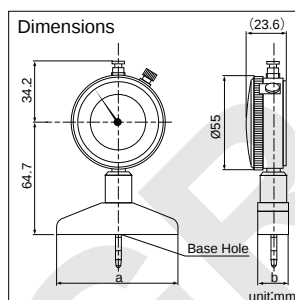


DM-213
O2 Flat Contact Point
Graduation 0.01mm
Measuring Range 10mm

Extension rods options

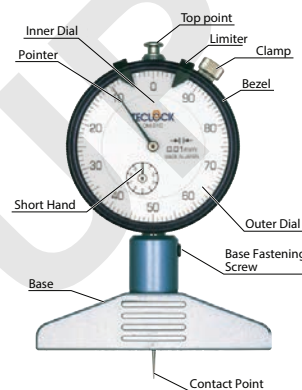


DM-214
Possible depth measurement of up to 220mm
Graduation 0.01mm
Measuring Range 10mm
Indication Range 10mm
with 5-Extension rods



Dimensions Table Unit : mm

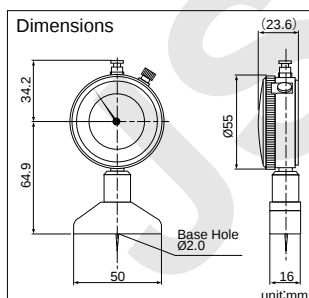
Model	Base Form axb	Base Hole Diameter
DM-210	75x16	2.5
DM-211	75x16	2.5
DM-213	75x16	5.2
DM-214	100x16	5.2



Order No.	Graduation (mm)	Measuring Range (mm)	Accuracy (μm)	Contact Point Form (mm)	Standard Contact Point	Measuring Force (N)	Weight (g)
DM-210	0.01	10	±12	Needle	ZS-523	1.4 or less	240
DM-211	0.01	10	±12	Ø 2 Flat	ZS-530	1.4 or less	240
DM-213	0.01	10	±12	Ø 3.2 Ball	ZS-034	1.4 or less	240
DM-214	0.01	10 (220)	±12	Ø 3.2 Ball	ZS-034	2.5 or less	335

※Measuring Range : () value is a range by using 5pcs extension rods.

Measuring Range:5mm



DM-250
Small type
Graduation 0.01mm
Measuring Range 5mm

Order No.	Graduation (mm)	Measuring Range (mm)	Accuracy (μm)	Contact Point Form (mm)	Standard Contact Point	Measuring Force (N)	Weight (g)
DM-250	0.01	5	±10	Needle	ZS-518	1.4 or less	230

SMALL TOOLS

เครื่องมือวัดละเอียด

TECLOCK

Measuring Range: 20mm / 30mm

Micrometer

ไมโครมิเตอร์

Inside

Measurement

เครื่องมือวัดภายใน

Calipers

คาลิเปอร์

Height Gages

เกจวัดความสูง

Linear Height

เครื่องมือวัดความสูง

Depth Gages

เกจวัดความลึก

Gauge Blocks

เกจบล็อก

Reference Gages

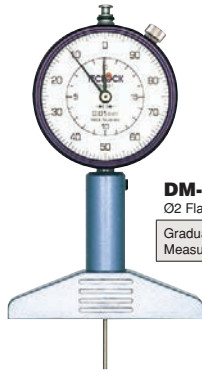
เครื่องมืออ้างอิง

Indicators

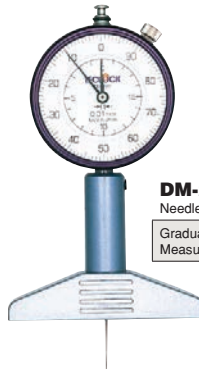
อินดิเคเตอร์

Stands

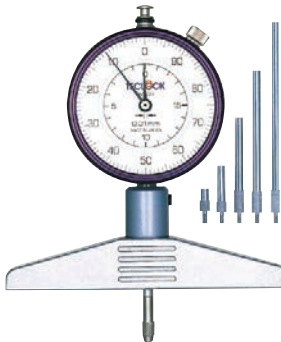
ขาตั้ง



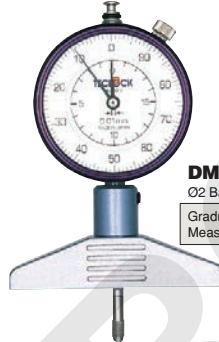
DM-221
Ø2 Flat Contact Point
Graduation 0.01mm
Measuring Range 20mm



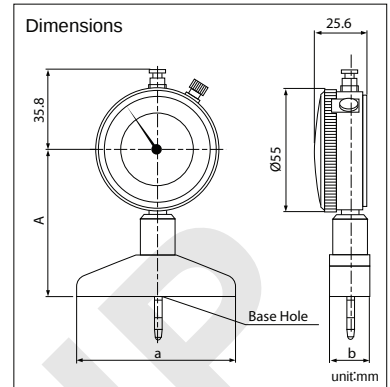
DM-220 / 230
Needle Contact point
Graduation 0.01mm
Measuring Range 20mm / 30mm



DM-224 / 233 / 234
Possible depth measurement
of up to 230mm (DM-224) /
240mm (DM-233/234)
Graduation 0.01mm
Measuring Range 230mm/240mm
Indication Range 20mm/30mm
with 5-Extension rods



DM-223
Ø2 Ball Contact Point
Graduation 0.01mm
Measuring Range 20mm



Dimensions Table

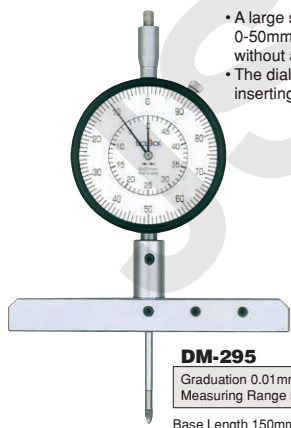
Unit : mm

Model	A	Base Form axb	Base Hole Diameter
DM-220	84.7	75x16	2.5
DM-221	84.7	75x16	2.5
DM-223	64.7	75x16	5.2
DM-224	64.7	100x16	5.2
DM-230	84.7	75x16	2.5
DM-233	64.7	75x16	5.2
DM-234	64.7	100x16	5.2

Order No.	Graduation (mm)	Measuring Range (mm)	Accuracy (μm)	Contact Point Form (mm)	Standard Contact Point	Measuring Force (N)	Weight (g)
DM-220	0.01	20	±15	Needle	ZS-543	2.2 or less	300
DM-221	0.01	20	±15	Ø 2 Flat	ZS-541	2.2 or less	300
DM-223	0.01	20	±15	Ø 3.2 Ball	ZS-034	2.2 or less	275
DM-224	0.01	20 (230)	±15	Ø 3.2 Ball	ZS-034	2.5 or less	340
DM-230	0.01	30	±35	Needle	ZS-543	2.5 or less	315
DM-233	0.01	30 (240)	±35	Ø 3.2 Ball	ZS-034	2.5 or less	315
DM-234	0.01	30 (240)	±35	Ø 3.2 Ball	ZS-034	2.5 or less	355

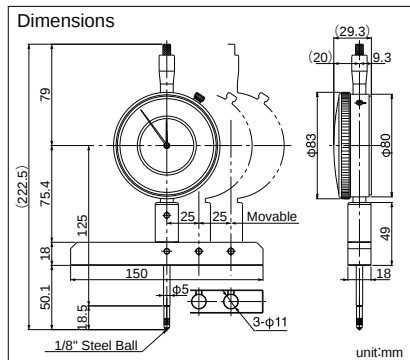
※Measuring Range : () value is a range by using 5pcs extension rods.

Measuring Range: 50mm



- A large sized depth gauge measurable 0-50mm (actual dimension) depth directly without any extension rod.
- The dial part is a type movable by inserting it into one of 3 holes.

DM-295
Graduation 0.01mm
Measuring Range 50mm
Base Length 150mm



Order No.	Graduation (mm)	Measuring Range (mm)	Accuracy (μm)	Contact Point Form (mm)	Standard Contact Point	Measuring Force (N)	Weight (g)
DM-295	0.01	50	±50	Ø 3.2 Ball	ZS-116	2.5 or less	750

SMALL TOOLS

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TECLOCK

Coating Thickness Gauge

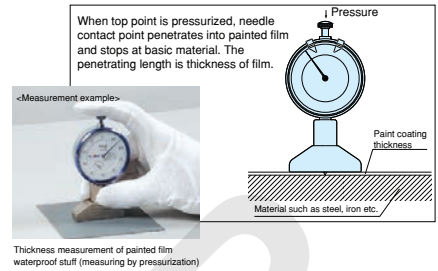
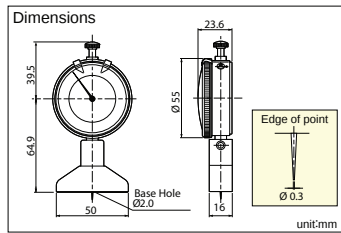
- Exclusive instrument to measure coating thickness of paint, coating materials and sealing materials.
- Handy type and operation is easy.



DM-264

Small-based
handy type

Graduation 0.01mm
Measuring Range 5mm

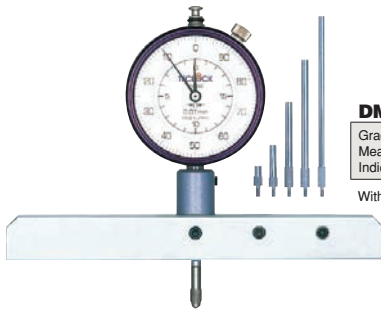


Thickness measurement of painted film
waterproof stuff (measuring by pressurization)

Order No.	Graduation (mm)	Measuring Range (mm)	Accuracy (μm)	Contact Point Form (mm)	Standard Contact Point	Measuring Force (N)	Weight (g)
DM-264	0.01	5	±10	Needle	ZS-518	1.4 or less	230

Gauge Slide type

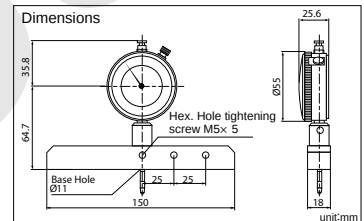
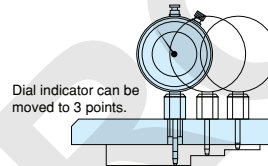
- Steps measurement can be easily made by moving the gauge to 3 mounting holes.



DM-293

Graduation 0.01mm
Measuring Range 230mm
Indication Range 20mm

With 5-Extension rods

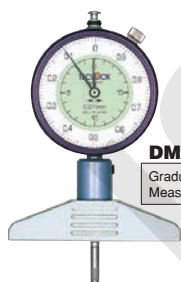


Order No.	Graduation (mm)	Measuring Range (mm)	Accuracy (μm)	Contact Point Form (mm)	Standard Contact Point	Measuring Force (N)	Weight (g)
DM-293	0.01	20 (230)	±15	Ø 3.2 Ball	ZS-034	2.5 or less	510

※Measuring Range : () value is a range by using 5pcs extension rods.

P Series (0.1mm type)

- This is direct reading specification of which graduation are 0.1-0.9mm.
- 1-10mm can be read by short hand and figure below can be read by pointer. It prevents misreading



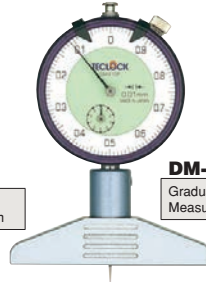
DM-223P

Graduation 0.01mm
Measuring Range 20mm



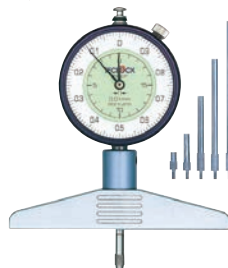
DM-250P

Graduation 0.01mm
Measuring Range 5mm



DM-210P

Graduation 0.01mm
Measuring Range 10mm



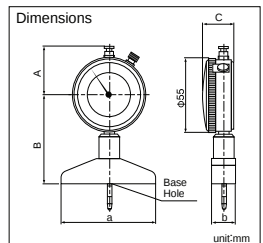
DM-224P

Graduation 0.01mm
Measuring Range 230mm
Indication Range 20mm

With 5-Extension rods



exp. 3.18mm of direct reading.



Dimensions Table

Unit : mm

Model	A	B	C	Base Form axb	Base Hole Diameter
DM-210P	34.2	64.7	23.6	75x16	2.5
DM-250P	34.2	64.9	23.6	50x16	2.0
DM-223P	35.8	64.7	25.6	75x16	5.2
DM-224P	35.8	64.7	25.6	100x16	5.2

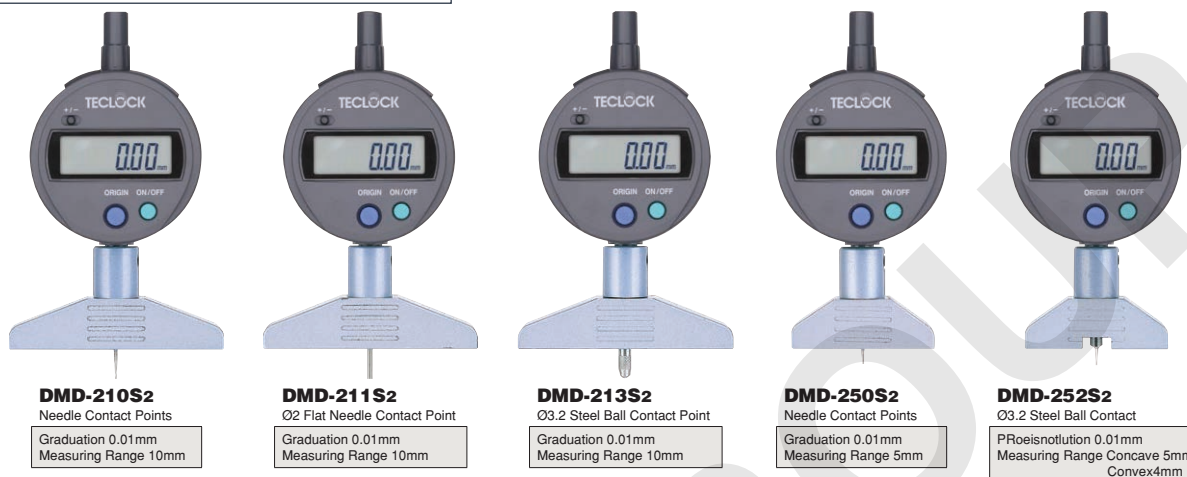
Order No.	Graduation (mm)	Measuring Range (mm)	Accuracy (μm)	Contact Point Form (mm)	Standard Contact Point	Measuring Force (N)	Weight (g)
DM-210P	0.01	10	±12	Needle	ZS-523	1.4 or less	270
DM-250P	0.01	5	±10	Needle	ZS-518	1.4 or less	230
DM-223P	0.01	20	±15	Ø 3.2 Ball	ZS-034	2.2 or less	275
DM-224P	0.01	20 (230)	±15	Ø 3.2 Ball	ZS-034	2.5 or less	340

เกจวัดความลึก

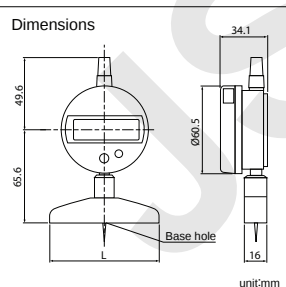
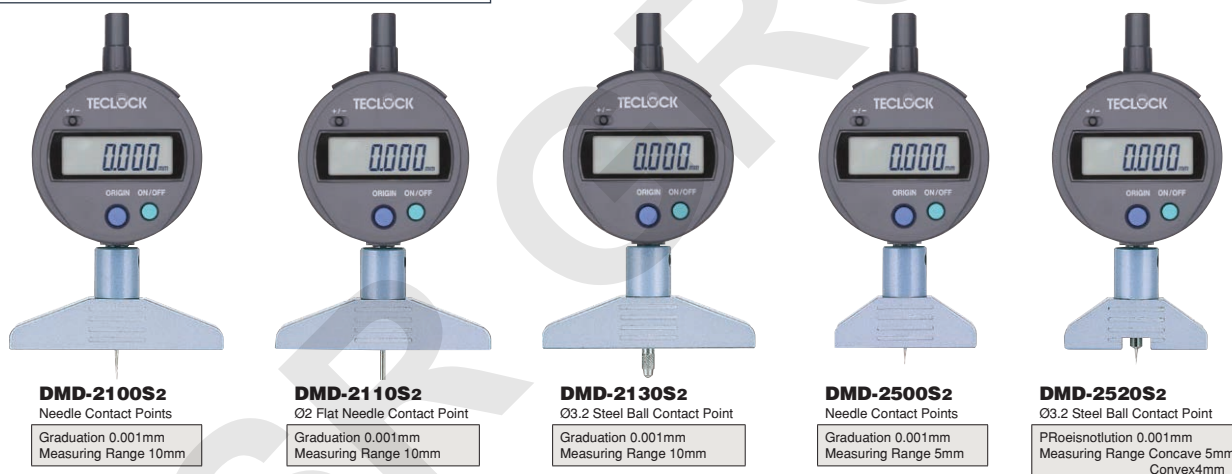
Conventional Digital Depth Gauge

- Digital Exclusive instrument to measure depth and steps of workpiece.
- Low cost and conventional model of which preset function is deleted from standard digital depth gauges.
- Operation is equal to standard digital depth gauges, but it can not measure by installing extension rods. In case that measuring range is over 10mm, please use standard digital depth gauges.
- Printing out of measured data and statistics arithmetic operation can be implemented by connecting it to optional Digital mini-printer SD-763P

0.01mm Conventional Digital Depth Gauge



0.001mm Conventional Digital Depth Gauge



Dimensions Table Unit : mm

Model	Base Hole Diameter	L
DMD-210S2	Ø2.5	75
DMD-211S2	Ø2.5	75
DMD-213S2	Ø5.2	75
DMD-250S2	Ø2.0	50
DMD-252S2	Ø8.0	50
DMD-2100S2	Ø2.5	75
DMD-2110S2	Ø2.5	75
DMD-2130S2	Ø5.2	75
DMD-2500S2	Ø2.0	50
DMD-2520S2	Ø8.0	50

Order No.	Graduation (mm)	Measuring Range (mm)	Accuracy (μm)	Contact Point Form (mm)	Standard Contact Point	Measuring Force (N)	Weight (g)
DMD-210S2	0.01	10	±20	Needle	ZS-523	2.0 or less	280
DMD-211S2	0.01	10	±20	Ø 2 Flat	ZS-530	2.0 or less	270
DMD-213S2	0.01	10	±20	Ø 3.2 Steel Ball	ZS-034	2.0 or less	270
DMD-250S2	0.01	5	±20	Needle	ZS-518	2.0 or less	205
DMD-252S2	0.01	Concave 5, Convex 4	±20	Needle	ZS-595	2.0 or less	200
DMD-2100S2	0.001	10	±5	Needle	ZS-523	2.0 or less	300
DMD-2110S2	0.001	10	±5	Ø 2 Flat	ZS-530	2.0 or less	300
DMD-2130S2	0.001	10	±5	Ø 3.2 Steel Ball	ZS-034	2.0 or less	300
DMD-2500S2	0.001	5	±5	Needle	ZS-518	2.0 or less	235
DMD-2520S2	0.001	Concave 5, Convex 4	±5	Needle	ZS-595	2.0 or less	230

*The quantizing error function is not included.

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ห้ามนำไปเผยแพร่ก่อนได้รับอนุญาตจากทางบริษัท

Micrometer

ไมโครมิเตอร์

Inside

Measurement

เครื่องมือวัดภายใน

Calipers

คาร์ลิเปอร์

Height Gages

เกจวัดความสูง

Linear Height

เครื่องมือวัดความสูง

Depth Gages

เกจวัดความลึก

Gauge Blocks

เกจบล็อก

Reference Gages

เครื่องมืออ้างอิง

Indicators

อินดิเคเตอร์

Stands

ขาตั้ง

SMALL TOOLS

เครื่องมือวัดละเอียด

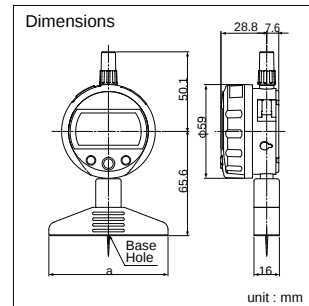
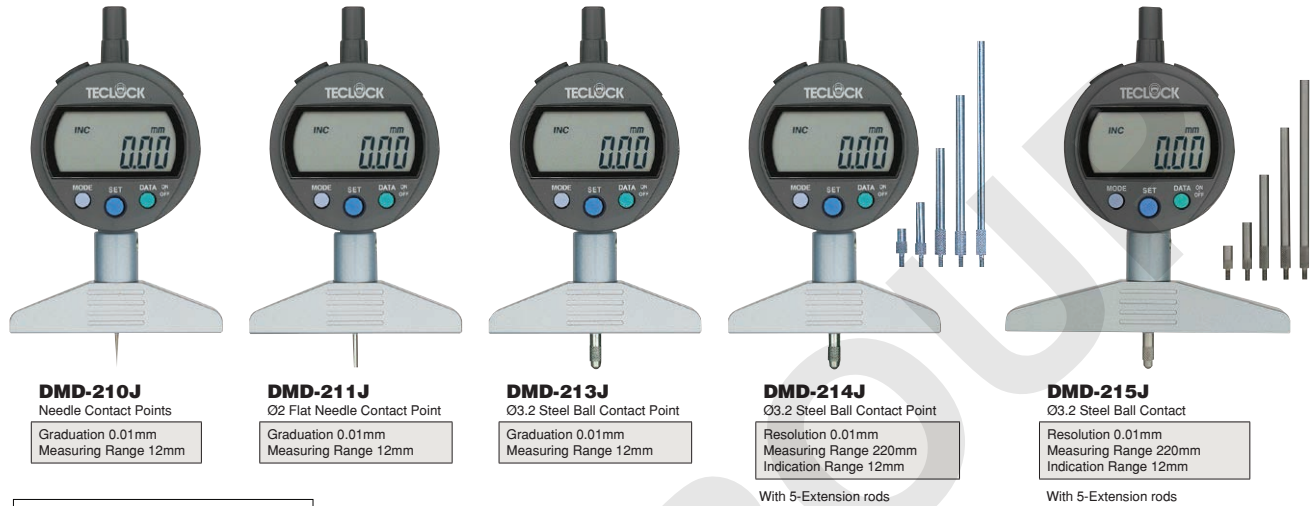
TECLOCK

เกจวัดความลึก

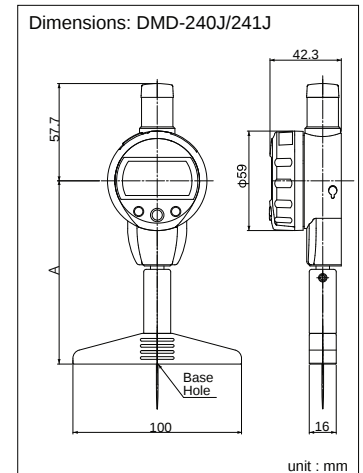
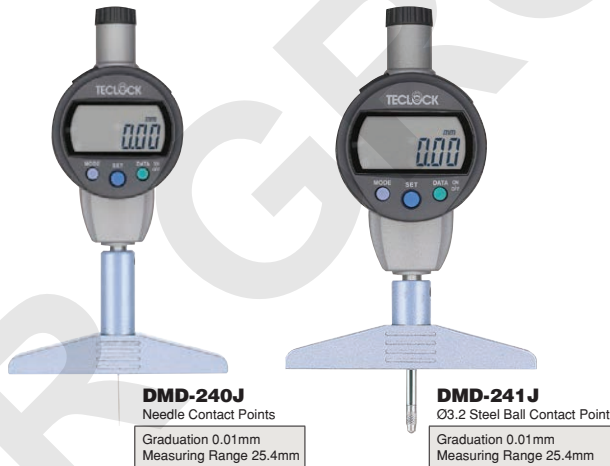
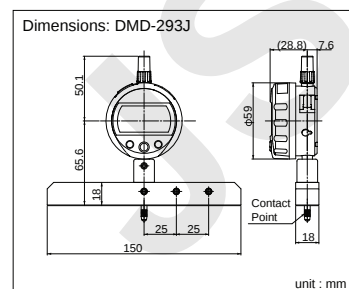
Standard Digital Depth Gauge

- Digital Depth Gauge can be used for direct measuring depth and steps of workpiece.
- Printing out of measured data and statistics arithmetic operation can be implemented by connecting it to optional Digital mini-printer SD-763P
- Extension rods can be used by Preset function. (excepting DMD-210J, DMD-211J and DMD-2100J).

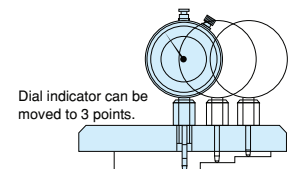
0.01mm Conventional Digital Depth Gauge



Model	Base form axb	Base hole diameter
DMD-210J	75 x 16	Ø2.5
DMD-211J	75 x 16	Ø2.5
DMD-213J	75 x 16	Ø5.2
DMD-214J	75 x 16	Ø5.2
DMD-215J	100 x 16	Ø5.2



Model	A
DMD-240J	108.7
DMD-241J	88.7



Order No.	Graduation (mm)	Measuring Range (mm)	Accuracy (μm)	Contact Point Form (mm)	Standard Contact Point	Measuring Force (N)	Weight (g)
DMD-210J	0.01	12	±20	Needle	ZS-523	1.0 or less	310
DMD-211J	0.01	12	±20	Ø 2 Flat	ZS-530	1.0 or less	310
DMD-213J	0.01	12	±20	Ø 3.2 Steel Ball	ZS-034	1.0 or less	310
DMD-214J	0.01	12 (220) ※	±20	Ø 3.2 Steel Ball	ZS-034	2.3 or less	335
DMD-215J	0.01	12 (220) ※	±20	Ø 3.2 Steel Ball	ZS-034	2.3 or less	375
DMD-240J	0.01	25.4	±20	Needle	ZS-113	1.6 or less	390
DMD-241J	0.01	25.4	±20	Ø 3.2 Steel Ball	ZS-600	1.6 or less	370
DMD-293J	0.01	12 (220) ※	±20	Ø 3.2 Steel Ball	ZS-034	2.3 or less	545

*The quantizing error function is not included.

※ Measuring Range : () value is a Range by using 5pcs extension rods.

0.001mm Standard Digital Depth Gauge



DMD-2100J
Needle Contact Points

Graduation 0.001mm
Measuring Range 12mm



DMD-2150J
Ø3.2 Steel Ball Contact Point

Resolution 0.001mm
Measuring Range 220mm
Indication Range 12mm

With 5-Extension rods



DMD-2400J
Needle Contact Points

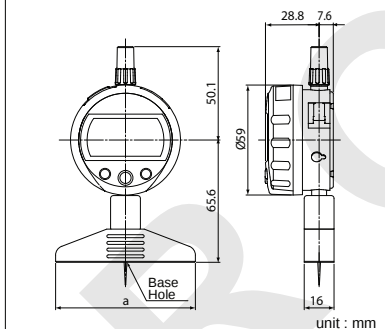
Graduation 0.001mm
Measuring Range 25.4mm



DMD-2410J
Ø3.2 Steel Ball Contact Point

Graduation 0.001mm
Measuring Range 25.4mm

Dimensions: DMD-2100J/2150J



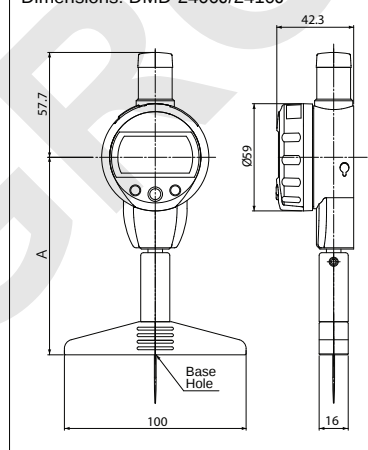
unit : mm

Dimensions Table

Unit : mm

Model	Base form axb	Base hole diameter
DMD-2100J	75 x 16	Ø2.5
DMD-2150J	100 x 16	Ø5.2

Dimensions: DMD-2400J/2410J



Dimensions Table

Unit : mm

Model	A
DMD-2400J	108.7
DMD-2410J	88.7

Order No.	Graduation (mm)	Measuring Range (mm)	Accuracy (μm)	Contact Point Form (mm)	Standard Contact Point	Measuring Force (N)	Weight (g)
DMD-2100J	0.001	12	±5	Needle	ZS-523	1.0 or less	310
DMD-2150J	0.001	12 (220) ※	±5	Ø 3.2 Steel Ball	ZS-034	2.3 or less	375
DMD-2400J	0.001	25.4	±5	Needle	ZS-113	1.6 or less	390
DMD-2410J	0.001	25.4	±5	Ø 3.2 Steel Ball	ZS-600	1.6 or less	370

*The quantizing error function is not included.

※ Measuring Range : () value is a Range by using 5pcs extension rods.

SMALL TOOLS

เครื่องมือวัดละเอียด

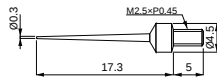
TECLOCK

อุปกรณ์เสริม

Parts & Accessories

Contact Point

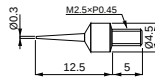
ZS-523



Standard fitment

DM-210 DM-210P
DM-280 DMD-210J
DMD-2100J DMD-210S2
DMD-2100S2

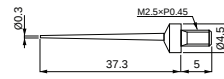
ZS-518



Standard fitment

DM-250 DM-250P
DM-264 DMD-250S2
DMD-2500S2

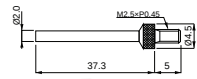
ZS-543



Standard fitment

DM-220 DM-230

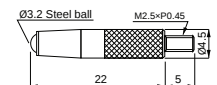
ZS-541



Standard fitment

DM-221

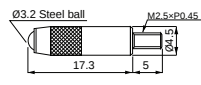
ZS-105



Standard fitment

DM-273

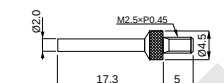
ZS-034



Standard fitment

DM-213 DM-214 DM-223
DM-223P DMD-224 DM-224P
DMD-233 DM-234 DM-283
DM-293 DMD-213J DMD-214J
DMD-215J DMD-293J
DMD-2150J DMD-213S2
DMD-2130S2

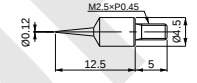
ZS-530



Standard fitment

DM-211 DMD-211J DMD-211S2

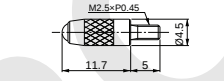
ZS-595



Standard fitment

DM-252 DMD-252J
DMD-252S2 DMD-2520S2

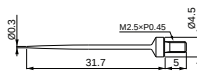
ZS-600



Standard fitment

DM-241J DMD-2410J

ZS-113

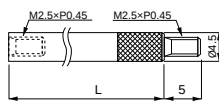


Standard fitment

DMD-240J DMD-2400J

Extension Rods

ZS-663, 664, 665, 666, 670

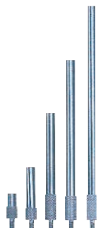


Order No.	L
ZS-670	10
ZS-663	20
ZS-664	40
ZS-665	60
ZS-666	80

Standard fitment

DM-241 DM-224 DM-224P DM-233 DM-234 DM-293
DMD-214J DMD-215J DMD-293J

ZS-904
(Set of 5)



อุปกรณ์เสริม

Depth Gauge by Contact Point List

Order No.	Base hole diameter	Standard contact point	Can be mounted contact point
DM-210	Ø2.5	ZS-523	ZS-527 ZS-528 ZS-530
DM-210P			
DMD-210S2			
DMD-210J			
DMD-2100S2			
DM-211	Ø2.5	ZS-530	ZS-527 ZS-528 ZS-523
DMD-211J			
DMD-211S2			
DMD-2110S2			

Order No.	Base hole diameter	Standard contact point	Can be mounted contact point
DM-213	Ø5.2	ZS-034	ZS-527 ZS-528 ZS-530 ZS-523 ZS-594
DM-214			
DM-223			
DM-224			
DM-233			
DM-234			
DM-223P			
DM-224P			
DM-293			
DMD-213S2			
DMD-213J			
DMD-2130S2			
DMD-214J			
DMD-215J			
DMD-2150J			
DM-250	Ø2.0	ZS-518	-
DM-250P			
DMD-250S2			
DMD-2500S2			

Order No.	Base hole diameter	Standard contact point	Can be mounted contact point
DM-251	Ø5.2	ZS-106	-
DM-252	Ø8.0	ZS-595	-
DMD-252S2			
DMD-2520S2			
DM-273	Ø5.2	ZS-105	-
DM-280	Ø3.0	ZS-523	ZS-527 ZS-528 ZS-530
DM-283	Ø8.0	ZS-034	ZS-527 ZS-528 ZS-530 ZS-523
DM-264	Ø2.0	ZS-518	-
DMD-240J	Ø2.5	ZS-113	-
DMD-2400J			
DMD-241J			
DMD-2410J	Ø5.2	ZS-600	-