Dial Depth Gage
SERIES 7

- Optimal for hole, narrow groove and step measurement.

7211

7214

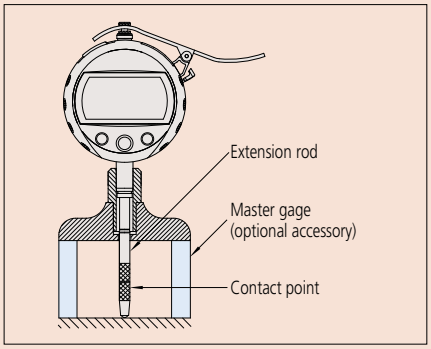
7222

7224

7231

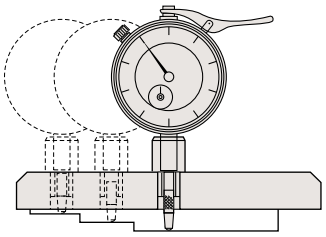
Note:
*1
Caution should be exercised when exchanging a contact point of a Depth Gage (Dial/Digimatic Indicator)
- If a different size contact point is mounted, displacement of the contact point from the base contact surface will be changed and as a result, measurement range may not be maintained.
- A 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.

*2
Caution on should be exercised when using an extension rod
- If the total length of the extension rod exceeds 110mm (4.5") 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.)



*3
Indicators
- Indicators for a Depth Gage is used for the Depth Gage. When the indicator is exchanged and extension rod is connected longer, the contact-point may incline significantly.
- Code No.543-400B / 543-402B for Depth Gage has a measuring force less than 1.5N.

Example of use



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

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*1	Extension rod*2	Indicator*3 (dial indicator)
7210	0 - 10mm	0.01mm	±15μm	10mm	1.4N	40mm	16mm	5μm	1	Provided with a needle point (**No.137413**)	—	**2902SB** for Depth Gage
7211	0 - 200mm					63.5mm				Provided with a carbide-tipped ball point (**No.21JAA224**)	5 pcs. (10, 20, 30, 30, 100mm)	
7212						101.6mm						
7213	0 - 210mm		±30μm	30mm	2.5N	63.5mm				Provided with a carbide-tipped ball point (**No.21JAA225**)	3 pcs. (30, 60, 90mm)	**2952SB** for Depth Gage
7214						101.6mm						
7220	0 - 200mm		±15μm	10mm	1.4N	100mm	18mm		2	Provided with a carbide-tipped ball point (**No.21JAA224**)	5 pcs. (10, 20, 30, 30, 100mm)	**2902SB** for Depth Gage
7221						150mm			3			
7222	0 - 10mm					ø16mm			1	Provided with a needle point (**No.137413**)	—	
7223						ø25mm				Provided with a carbide-tipped ball point (**No.21JAA224**: 17mm) (**No.21JAA226**: 22mm)		
7224						ø40mm						
7231	0 - 200mm			5mm		63.5mm	16mm				5 pcs. (10, 20, 30, 30, 100mm)	**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*1	Extension rod*2	Indicator*3 (dial indicator)
7217S	0 - 8"	.001"	±.002"	1"	2.5N	63.5mm	16mm	.0002"	1	Carbide ball point (**No.21JZA242**)	3 pcs. (1", 2", 4")	**2904SB** for Depth Gage
7218S						101.6mm						
7237T				.2"	1.4N	63.5mm				Provided with a carbide-tipped ball point (**No.21JZA242**: 17.8mm) (**No.21JZA243**: 22.9mm)	4 pcs. (.5", 1", 2", 4")	**1168T** for Depth Gage (Back plunger type)
7238T						101.6mm						

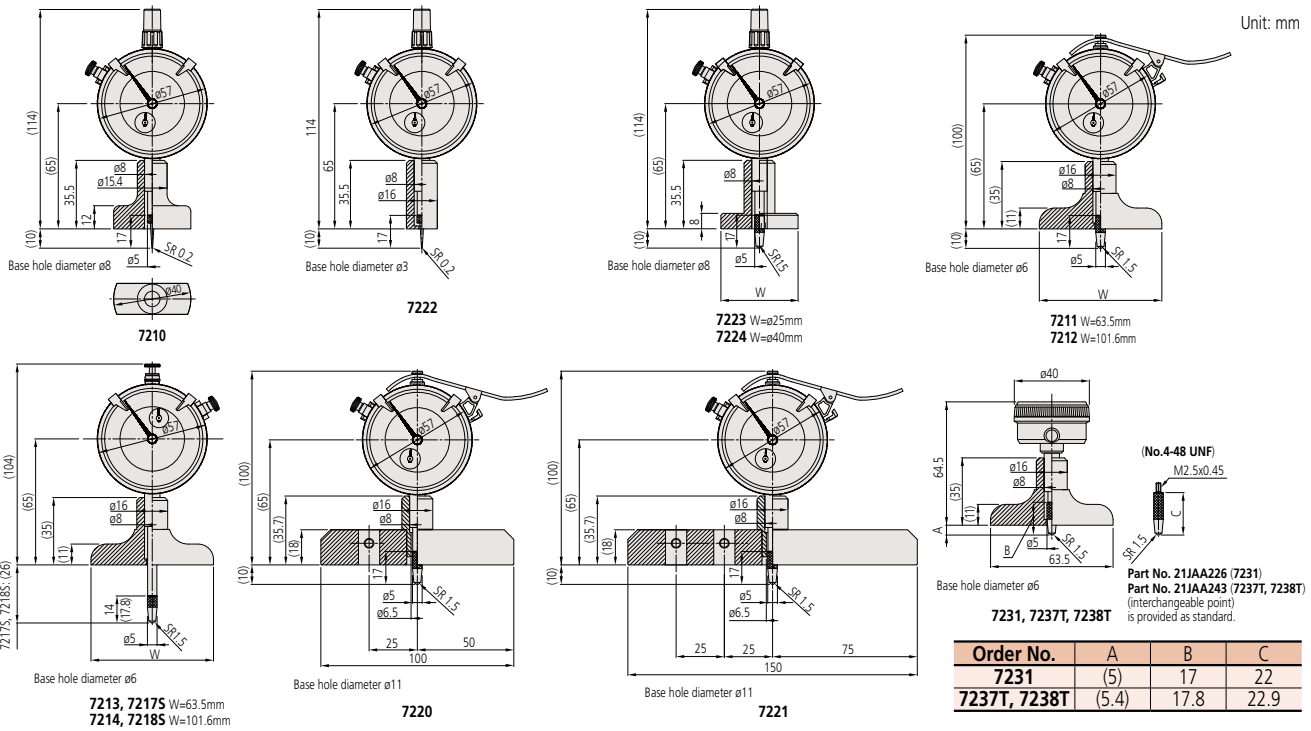
Mitutoyo

Depth Gage

A standard measuring tool of industry

DIMENSIONS

Unit: mm



7210

7222

7223 W=ø25mm
7224 W=ø40mm

7211 W=63.5mm
7212 W=101.6mm

7213, 7217S W=63.5mm
7214, 7218S W=101.6mm

7220

7221

7231, 7237T, 7238T

Order No.	A	B	C
7231	(5)	17	22
7237T, 7238T	(5.4)	17.8	22.9

ABSOLUTE Digimatic Depth Gage SERIES 547

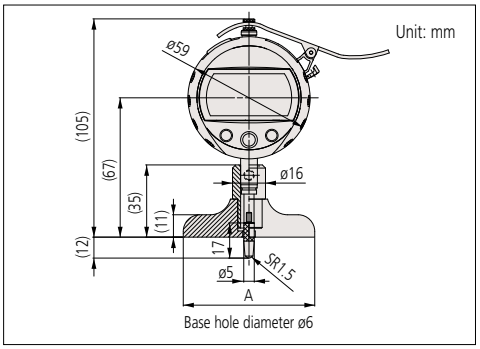
- Easy-to-read dial effectively prevents misreading.
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. Refer to page A-3.

ABSOLUTE™ (Refer to page X for details.)

547-211

DIMENSIONS

Unit: mm



SPECIFICATIONS

Metric

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

Inch/Metric

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

*1 to *3: Refer to page D-68.
*4: Excluding quantizing error.