Dial Depth Gage
SERIES 7

- Optimal for hole, narrow groove and step measurement.

7211A

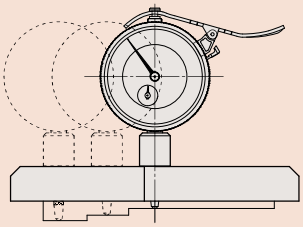
7214A

7222A

7224A

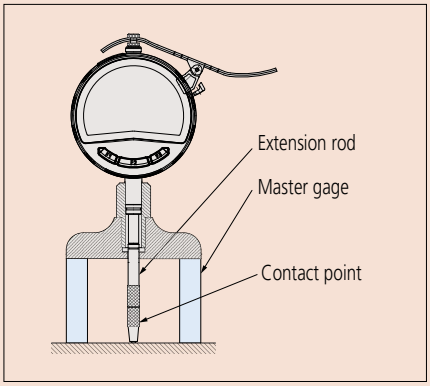
7231A

Typical application



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

When using an extension rod



SPECIFICATIONS

Metric

Order No.	Range (mm)	Graduation (mm)	Stroke (mm)	Accuracy (µm)	Measuring force (N)	Base			
						W (mm)	T (mm)	Flatness (µm)	Mounting position of a dial indicator
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		

Order No.	Contact point*1	Extension rod*2	Indicator*3 (dial indicator)
7210A	Provided with a needle point (**137413**)	—	**2902AB** for Depth Gage
7211A	Provided with a carbide-tipped ball point (**21JAA224**)	5 pcs. (10, 20, 30, 30, 100 mm)	**2902AB** for Depth Gage
7212A			
7213A	Provided with a carbide-tipped ball point (**21JAA225**)	3 pcs. (30, 60, 90 mm)	**2952AB** for Depth Gage
7214A			
7220A	Provided with a carbide-tipped ball point (**21JAA224**)	5 pcs. (10, 20, 30, 30, 100 mm)	**2902AB** for Depth Gage
7221A			
7222A	Provided with a needle point (**137413**)	—	**2902AB** for Depth Gage
7223A	Provided with a carbide-tipped ball point (**21JAA224**: 17 mm)		
7224A			
7231A		5 pcs. (10, 20, 30, 30, 100 mm) Interchangeable contact point (**21JAA226**)	**1162A** for Depth Gage (Back plunger type)

*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 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.)

*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.543-710B**/**543-712B** for Depth Gage has a measuring force less than 1.5 N. (Refer to page D-79.)

SPECIFICATIONS

Inch

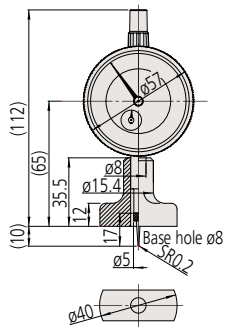
Order No.	Range (in)	Graduation (in)	Stroke (in)	Accuracy (in)	Measuring force (N)	Base			
						W (in)	T (in)	Flatness (in)	Mounting position of a dial indicator
7217A	0 - 8	0.001	1	±0.002	2.0	2.5	0.63	0.0002	1
7218A						4			
7237A			0.2		1.4	2.5			
7238A						4			

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

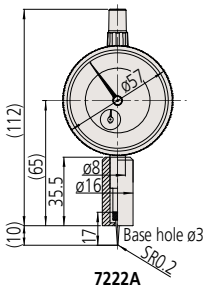
* Refer to corresponding notes on page D-77.

DIMENSIONS

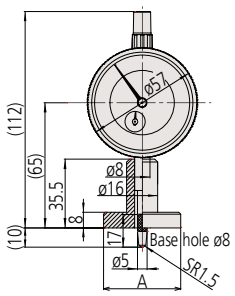
Unit: mm



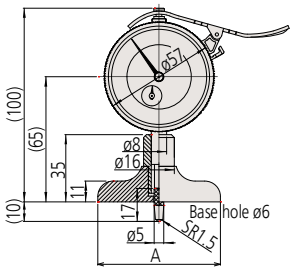
7210A



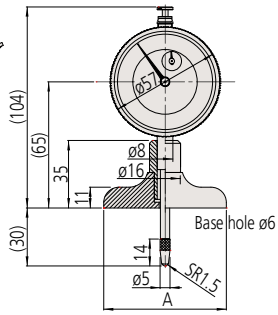
7222A



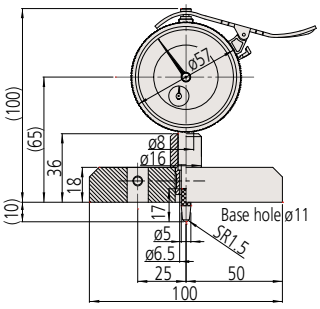
7223A A=ø25 mm
7224A A=ø40 mm



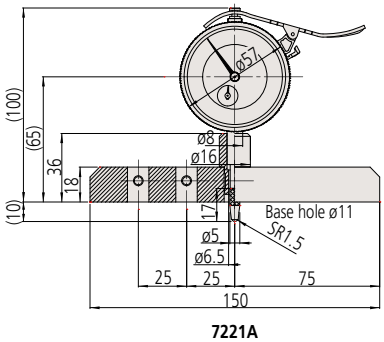
7211A A=63.5 mm
7212A A=101.6 mm



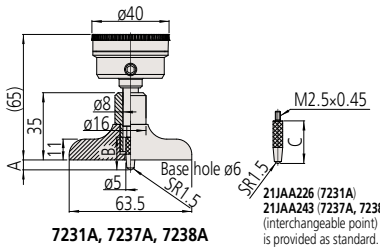
7213A, 7217A A=63.5 mm
7214A, 7218A A=101.6 mm



7220A



7221A



7231A, 7237A, 7238A

21JAA226 (**7231A**)
21JAA243 (**7237A, 7238A**)
(interchangeable point)
is provided as standard.

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