

Disc Micrometers

SERIES 169 — Non-rotating Spindle Type

- Can be used for making root tangent measurements on spur gears and helical gears.
- Determination of the root tangent length: refer to "Quick Guide to Precision Measuring Instruments" on page 13-8.
- Non-rotating spindle eliminates torque on workpiece.
- Measurable range of gear pitch: 0.5 to 6 module.
- Equipped with Ratchet Stop for constant measuring force.



169-201-10

SPECIFICATIONS

Metric

	Code No.	Range (mm)	Graduation (mm)	Anvil dia. (mm)	Maximum permissible error J_{MPE} (μm)	Flatness (μm)	Parallelism (μm)	Measuring force (N)	
Analog	169-201-10	0 - 25	0.01	ø20	±4	1	4	3 - 8	
	169-202-10	25 - 50			±6		6		
	169-205-10	50 - 75	0.01		±6	1	6	3 - 8	
	169-207-10	75 - 100							

Inch

	Code No.	Range (in)	Graduation (in)	Anvil dia. (in)	Maximum permissible error J_{MPE} (in)	Flatness (in)	Parallelism (in)	Measuring force (N)	
Analog	169-203-10	0 - 1	0.001	ø0.787	±0.0002	0.00004	0.0002	3 - 8	
	169-204-10	1 - 2			±0.0003		0.0003		
	169-206-10	2 - 3	0.001		±0.0003	0.00004	0.0002	3 - 8	
	169-208-10	3 - 4							

- Standard accessories: Setting standard, 1 pc. (except for measuring range 0 to 25 mm (0 to 1 in) models)
- Spanner (301336), 1 pc.

Note: Root tangent length measurement is not available for some types of gears.

DIMENSIONS

Analog models up to 50 mm								Unit: mm
<p>Technical drawing of an analog disc micrometer. The drawing shows the measuring head with anvil dia. ø20, measuring length L, and center recess depth 5.7. The spindle has a diameter of ø18. The measuring head is labeled with dimensions 25, 6, 15, and 83.5. The spindle is labeled with 13.8, 25, 49, and 63.</p>								
<p>Technical drawing of an analog disc micrometer over 50 mm. The drawing shows the measuring head with anvil dia. ø20, measuring length L, and center recess depth 5.5. The spindle has a diameter of ø18. The measuring head is labeled with dimensions 25, 6, 15, and 83.5. The spindle is labeled with 13.8, 25, 49, and 63. An inset shows a cross-section of the center recess with a diameter of 1 and a depth of 0.7.</p>								
Range (mm)	L	a	b	c	e	f	t	
0 - 25	0	13.8	25	5.7	20	8	0.7	
25 - 50	25		32					
50 - 75	50	12	49	5.5				
75 - 100	75	14	63					