

Micrometer

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								
	169-205-10	50 - 75			±6		6			
	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								
	169-206-10	2 - 3			±0.0003		0.0003			
	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

Unit: mm

Analogue models up to 50 mm

Analogue models over 50 mm

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							