

Disk Micrometers SERIES 223, 123

- Measures “root tangent length” of spur gears and helical gears.
- Determination of the root tangent length: refer to “Quick Guide to Precision Measuring Instruments” on page B-80.
- Equipped with Ratchet Stop for constant measuring force.
- Supplied with a setting standard (except for 0 to 25 mm/0 to 1 in measuring range).



SPECIFICATIONS

Metric							
Order No.	Range (mm)	Graduation (mm)	Maximum permissible error J_{MPE} (μ m)	Flatness (μ m)	Parallelism (μ m)	Anvil dia. (mm)	Measurable module
Mechanical counter model							
223-101	0 - 25	0.01	± 4	1	4	$\varnothing 20$	0.5 - 6
223-102	25 - 50						
Analog							
123-101	0 - 25	0.01	± 4	1	4	$\varnothing 20$	0.5 - 6
123-113*							
123-102	25 - 50		± 6	1.6	6	$\varnothing 30$	0.7 - 11
123-114*							
123-103	50 - 75		± 7	1.6	7	$\varnothing 30$	0.7 - 11
123-115*							
123-104	75 - 100		± 8	1.6	8	$\varnothing 30$	0.7 - 11
123-116*							
123-105	100 - 125		± 9	1.6	9	$\varnothing 30$	0.7 - 11
123-106	125 - 150						
123-107	150 - 175	± 9	1.6	9	$\varnothing 30$	0.7 - 11	
123-108	175 - 200						
123-109	200 - 225	± 9	1.6	9	$\varnothing 30$	0.7 - 11	
123-110	225 - 250						
123-111	250 - 275	± 9	1.6	9	$\varnothing 30$	0.7 - 11	
123-112	275 - 300						
Inch							
Order No.	Range (in)	Graduation (in)	Maximum permissible error J_{MPE} (in)	Flatness (in)	Parallelism (in)	Anvil dia. (in)	Measurable module
Mechanical counter model							
223-125	0 - 1	0.001	± 0.0002	0.00004	0.0002	0.787	0.5 - 6
Analog							
123-125	0 - 1	0.001	± 0.0002	0.00004	0.0002	0.787	0.5 - 6
123-126	1 - 2				0.0002		
123-127	2 - 3		± 0.0003	1.6	9	$\varnothing 30$	0.7 - 11
123-128	3 - 4						

* The measuring disks have carbide tips.
 • 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.