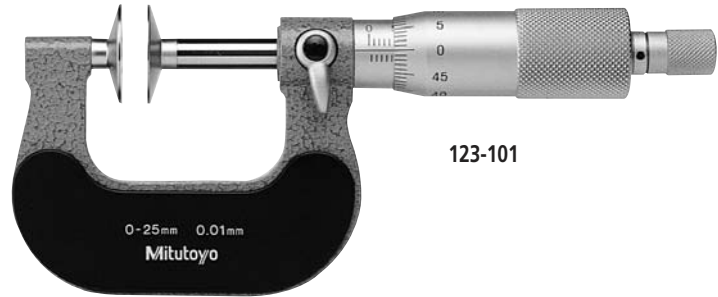


Disk Micrometers

SERIES 323, 223, 123



323-511-30



123-101

MICROMETERS

FEATURES

- The Disk Micrometer is designed to easily measure root tangent length of spur gears and helical gears.
- Diameter of measuring disk: 20mm (.79")
- 0.7mm edge thickness to enter narrow recesses.
- With Ratchet Stop for constant force.
- Provided with a standard except for 25mm (1") model.
- The 323 series (LCD readout type) is provided with SPC output.
- The 223 series is provided with a mechanical digit counter for quick reading of measurements.

SPECIFICATIONS

Metric		Digital model	
Range	Order No.	Resolution	Accuracy
0 - 25mm	323-511-30	0.001mm	±4μm
25 - 50mm	323-512-30	0.001mm	±4μm
50 - 75mm	323-513-30	0.001mm	±6μm
75 - 100mm	323-514-30	0.001mm	±6μm

Excluding quantizing error

Inch/Metric		Digital model	
Range	Order No.	Resolution	Accuracy
0 - 1"	323-711-30	.00005"/0.001mm	±.0002"
1" - 2"	323-712-30	.00005"/0.001mm	±.0002"
2" - 3"	323-713-30	.00005"/0.001mm	±.0003"
3" - 4"	323-714-30	.00005"/0.001mm	±.0003"

Excluding quantizing error

Metric		Mechanical counter model	
Range	Order No.	Resolution	Accuracy
0 - 25mm	223-101	0.01mm	±4μm
25 - 50mm	223-102	0.01mm	±4μm

Inch		Mechanical counter model	
Range	Order No.	Resolution	Accuracy
0 - 1"	223-125	.001"	±.0002"

Metric

Range	Order No.	Graduation	Accuracy
0 - 25mm	123-101	0.01mm	±4μm
	123-113*	0.01mm	±4μm
25 - 50mm	123-102	0.01mm	±4μm
	123-114*	0.01mm	±4μm
50 - 75mm	123-103	0.01mm	±6μm
	123-115*	0.01mm	±6μm
75 - 100mm	123-104	0.01mm	±6μm
	123-116*	0.01mm	±6μm
100 - 125mm	123-105	0.01mm	±7μm
125 - 150mm	123-106	0.01mm	±7μm
150 - 175mm	123-107	0.01mm	±8μm
175 - 200mm	123-108	0.01mm	±8μm
200 - 225mm	123-109	0.01mm	±8μm
225 - 250mm	123-110	0.01mm	±9μm
250 - 275mm	123-111	0.01mm	±9μm
275 - 300mm	123-112	0.01mm	±9μm

*The measuring disks have carbide tips.
Note: The disk diameter of models over 100mm is 30mm.

Inch

Range	Order No.	Graduation	Accuracy
0 - 1"	123-125	.001"	±.0002"
1" - 2"	123-126	.001"	±.0002"
2" - 3"	123-127	.001"	±.0003"
3" - 4"	123-128	.001"	±.0003"

Measuring faces

- Flatness: 1μm (.00004") for models up to 100mm (4")
1.6μm for models over 100mm
- Parallelism: 4μm (.00016") for models up to 50mm (2")
(4+L/50)μm [(0.00016+.00004 (L/2))"]*
for models up to 100mm (4") over 50mm (2")
(5+L/75)μm* for models over 100mm

* L=Maximum measuring length (mm) [(inch)], Fraction rounded up