Disc Micrometers

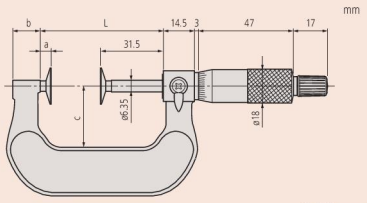
Series 123

This Disc Micrometer enables you to measure hard-to-reach features, offering you the following benefits:

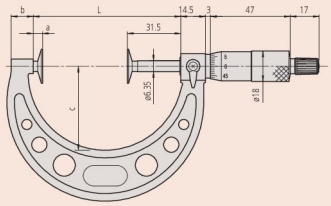
- Measuring the root tangent length of spur and helical gears.
- You can measure recessed features that are difficult to reach with a standard micrometer.

Specifications

Measuring face	Hardened steel or carbide-tipped
Measuring spindle	With spindle lock, ø 6,35 mm, spindle pitch 0,5 mm
Delivered	Including box, key, setting standard (from 25 mm upward)

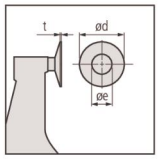


0-50 mm



50-300 mm

123-101



Metric

No.	Range [mm]	Flatness	Parallelism	Maximum Permissible Error J MPE	Graduation	Measuring force [N]	Measurable module
123-101	0 - 25	1 µm	4 µm	±4 µm	0,01 mm	5-10	0,5 - 6
123-102	25 - 50	1 µm	4 µm	±4 µm	0,01 mm	5-10	0,5 - 6
123-103	50 - 75	1 µm	6 µm	±6 µm	0,01 mm	5-10	0,5 - 6
123-104	75 - 100	1 µm	6 µm	±6 µm	0,01 mm	5-10	0,5 - 6
123-105	100 - 125	1,6 µm	7 µm	±7 µm	0,01 mm	5-10	0,7 - 11
123-106	125 - 150	1,6 µm	7 µm	±7 µm	0,01 mm	5-10	0,7 - 11
123-107	150 - 175	1,6 µm	8 µm	±8 µm	0,01 mm	5-10	0,7 - 11
123-108	175 - 200	1,6 µm	8 µm	±8 µm	0,01 mm	5-10	0,7 - 11
123-109	200 - 225	1,6 µm	8 µm	±8 µm	0,01 mm	5-10	0,7 - 11
123-110	225 - 250	1,6 µm	9 µm	±9 µm	0,01 mm	5-10	0,7 - 11
123-111	250 - 275	1,6 µm	9 µm	±9 µm	0,01 mm	5-10	0,7 - 11
123-112	275 - 300	1,6 µm	9 µm	±9 µm	0,01 mm	5-10	0,7 - 11

No.	Mass [g]	L [mm]	a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	t [mm]
123-101	200	37,5	6	14	25	20	8	0,7
123-102	250	62,5	6	14	32	20	8	0,7
123-103	300	87	5,5	11	49	20	8	0,7
123-104	375	112	5,5	11	63	20	8	0,7
123-105	520	137,5	6	12	79	30	12	1
123-106	570	162,5	6	15	94	30	12	1
123-107	730	187,5	6	16	106	30	12	1
123-108	890	212,5	6	15	118	30	12	1
123-109	1000	237,5	6	14	130	30	12	1
123-110	1200	262,5	6	14	143	30	12	1
123-111	1410	287,5	6	15	156	30	12	1
123-112	1680	312,5	6	15	169	30	12	1

Metric

With carbide-tipped discs

No.	Range [mm]	Flatness	Parallelism	Maximum Permissible Error J MPE	Graduation	Measuring force [N]	Measurable module
123-113	0 - 25	1 µm	4 µm	±4 µm	0,01 mm	5-10	0,5 - 6
123-114	25 - 50	1 µm	4 µm	±4 µm	0,01 mm	5-10	0,5 - 6
123-115	50 - 75	1 µm	6 µm	±6 µm	0,01 mm	5-10	0,5 - 6
123-116	75 - 100	1 µm	6 µm	±6 µm	0,01 mm	5-10	0,5 - 6

No.	Remarks	Mass [g]	L [mm]	a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	t [mm]
123-113	Disks have carbide tips	200	39,7	4,5	9,2	25	20	9,8	0,7
123-114	Disks have carbide tips	250	65,6	5,4	11	31	20	9,8	0,7
123-115	Disks have carbide tips	300	90,7	5,5	12,2	50	20	9,8	0,7
123-116	Disks have carbide tips	375	112,5	5,5	13,5	60	20	9,8	0,7

Mitutoyo