Disc Micrometers

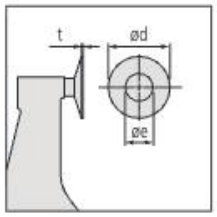
Series 123

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.

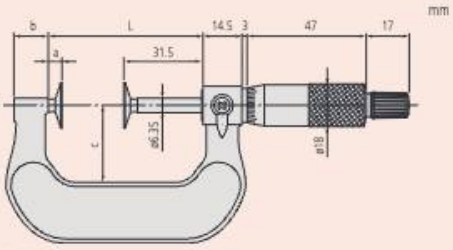


123-101

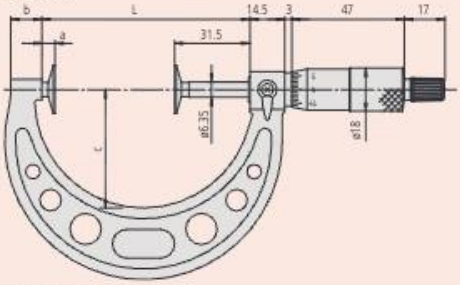


Specifications

Measuring face	Hardened steel or carbide-tipped
Measuring spindle	With spindle lock, ø 6,35 mm, spindle pitch 0,5 mm
Scale	Thimble and sleeve satin chrome finish ø18 mm
Delivered	Including box, key, setting standard (from 25 mm upward)



0-50 mm



50-300 mm

Metric

No.	Range [mm]	Graduation	Max. Permissible Error E MPE	Variation in length V MPE	Measuring force [N]	Measurable module [mm]	L [mm]
123-101	0–25	0,01 mm	±4 µm	4 µm	5-10	0,5 - 6	37,5
123-102	25–50	0,01 mm	±4 µm	4 µm	5-10	0,5 - 6	62,5
123-103	50–75	0,01 mm	±6 µm	6 µm	5-10	0,5 - 6	87
123-104	75–100	0,01 mm	±6 µm	6 µm	5-10	0,5 - 6	112
123-105	100–125	0,01 mm	±7 µm	7 µm	5-10	0,7 - 11	137,5
123-106	125–150	0,01 mm	±7 µm	7 µm	5-10	0,7 - 11	162,5
123-107	150–175	0,01 mm	±8 µm	8 µm	5-10	0,7 - 11	187,5
123-108	175–200	0,01 mm	±8 µm	8 µm	5-10	0,7 - 11	212,5
123-109	200–225	0,01 mm	±8 µm	8 µm	5-10	0,7 - 11	237,5
123-110	225–250	0,01 mm	±9 µm	9 µm	5-10	0,7 - 11	262,5
123-111	250–275	0,01 mm	±9 µm	9 µm	5-10	0,7 - 11	287,5
123-112	275–300	0,01 mm	±9 µm	9 µm	5-10	0,7 - 11	312,5

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

Metric

With carbide-tipped discs

No.	Range [mm]	Graduation	Max. Permissible Error E MPE	Variation in length V MPE	Remarks	Measuring force [N]	Measurable module [mm]
123-113	0–25	0,01 mm	±4 µm	4 µm	Disks have carbide tips	5-10	0,5 - 6
123-114	25–50	0,01 mm	±4 µm	4 µm	Disks have carbide tips	5-10	0,5 - 6
123-115	50–75	0,01 mm	±6 µm	6 µm	Disks have carbide tips	5-10	0,5 - 6
123-116	75–100	0,01 mm	±6 µm	6 µm	Disks have carbide tips	5-10	0,5 - 6

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

All products to be sold to commercial customers.
Product illustrations are without obligation. Product descriptions, in particular any and all technical specifications, are only binding when explicitly agreed upon.