



OpenMIC 50

Microscope measuring system

MA 183



This analog system is an advantageous alternative for measuring small parts while requiring a very good image and XY table quality. The integrated wide-angle eyepiece allows the observation of large fields of view. The high illuminators power is perfectly suited for higher magnifications.

- Granit base.
- Manual X-Y table.
- Integrated rotary table with T-slot.
- Digital micrometers.
- Quick-displacement Z column.
- Choice of fixed or zoom lens.
- Observation angle 120°.
- Wide angle eyepiece.
- 360° goniometer and 5° vernier.
- Wide choice of reticles available.
- 100% LED illuminators.

Technical specifications



OpenMIC 50

X-Y table range [mm]	50x50 manual
Table included	MA 143-6 with rotary table
Table precision [mm]	0.005 / 50mm
Z column range [mm]	230
Digital micrometers X-Y axis	Sylvac
Included reticle	R2-1-4-2 (fixed optics) / R7 (zoom optics)
Weight (kg)	20
Dimensions column lowered (W x D x H) [mm]	480 x 460 x 500

Z1 zoom optics (4 indexes)

Choice of lens	Magnification	Field of view Ø	Working distance
0.25X	3X to 16X	85.2 to 13.2 mm	356 mm
0.5X	5X to 33X	42.6 to 6.6 mm	175 mm
0.75X	8X to 49X	28.4 to 4.4 mm	113 mm
Without lens	10X to 65X	21.3 to 3.3 mm	92 mm
1.5X	15X to 98X	14.2 to 2.2 mm	51 mm
2X	20X to 130X	10.7 to 1.7 mm	36 mm

The values (in mm) are approximate and not binding.
Other values and magnifications on request.

Z2 zoom optics (8 indexes)

Choice of lens	Magnification	Field of view Ø	Working distance
0.25X	2X to 28X	97.0 to 8.1 mm	352 mm
0.5X	5X to 56X	48.5 to 4.0 mm	167 mm
0.75X	7X to 84X	32.3 to 2.7 mm	109 mm
Without lens	9X to 111X	24.2 to 2.0 mm	87 mm
1.5X	14X to 167X	16.2 to 1.3 mm	50 mm
2X	19X to 223X	12.1 to 1.0 mm	37 mm

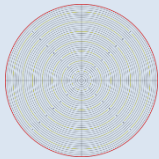
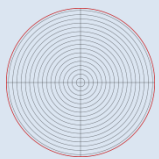
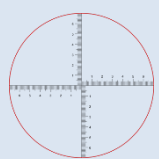
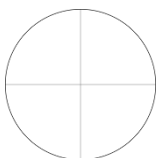
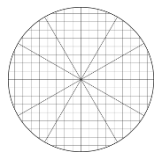
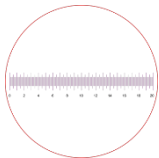
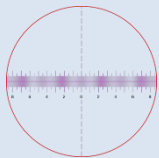
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Fixed optics		
Magnification choice	Field of view Ø	Working distance
10X	22.5 mm	92 mm
20X	11.25 mm	90 mm
30X	7.5 mm	103 mm
50X	4.5 mm	71 mm
100X	2.25 mm	37 mm

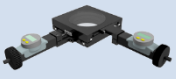
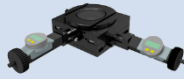
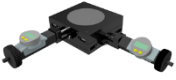

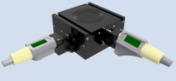

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Other values and magnifications on request.

Reticles										
Magnification	12.5X	15X	25X	30X	50X	60X	75X	100X	120X	125X
R 2-1-4-2	0.5			0.1		0.5		0.125		0.1
R 7		0.2					0.125			
R-M 4 / R-M5					0.1		0.15	0.1		0.05
R 3-4W	0.25		0.05	0.05		0.25				0.05

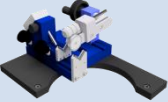



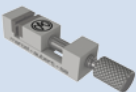
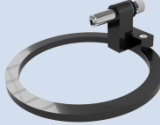

This table shows the space (in mm) between two circles or between two division lines.
Practical divisions can be obtained for the other reticles by adjusting the magnification.
The reticles are not interchangeable.

	R 2-1-4-2 Cross 38 circles		R 7 Cross 17 circles		R 3-4W 12x12 divisions
	R 9a 90° divisions		R 13-3W 30° divisions		R-M 4 200 divisions
	R-M 5 Cross 200 divisions				

Variants

	Manual 50x50 table (Precision 0.01mm / 50mm) MA 143-5-006		Manual 50x50 table with rotary table (included) (Precision 0.005mm / 50mm) MA 143-6-012
	Manual 50x50 table (Precision 0.005mm / 50mm) MA 143-6-011		Manual 50x50 table with rotary table (Precision 0.01mm / 50mm) MA 143-5-008
	Manual 25x25 table (Precision 0.005mm / 25mm) MA 142-2-004		Precision column (Precision 0.030mm / 100mm) MA 173-S...

Options

	Concentricity measuring tool MA 143-007-02		Crocodile-pliers on round support MA 143-010-01
	Rotary table MA 143-5-70G		Clamp with parallel jaws on round support MA 143-010-02
	Vice (capacity 15mm) MA 143b-004		Collet holder on round support MA 143-010-03
	Adjustable vice (capacity 15mm) MA 143b-005		V-block with spring clip on round support MA 143-010-04
	T-slot MA 143c-002 (not for rotary tables)		