



# OpenMIC 70 / 150 / 200 / 300

Microscope measuring system

MA 183, MA 185, MA 186 & MA 187





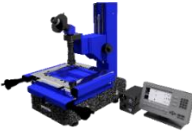
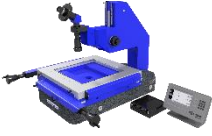
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This system contains a high-precision X-Y table and column for the measurement of small parts while requiring a very good image quality.

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- Granit base.
- Manual X-Y table.
- Manual precision 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

	 <b>OpenMIC 70</b>	 <b>OpenMIC 150</b>	 <b>OpenMIC 200</b>	 <b>OpenMIC 300</b>
Manual X-Y table range [mm]	70x70	150x70	200x200	300x300
Table precision [mm]	0.003 / 100mm		0.005 / 100mm	
Z column range [mm]	150		180	200
X-Y axis rulers	Acu-Rite	Heidenhain		
Included reticle	R 2-1-4-2			
Weight (kg)	30	70	110	235
Dimensions column lowered (W x D x H) [mm]	300 x 380 x 500	450 x 450 x 460	605 x 730 x 660	760 x 1000 x 980

### 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

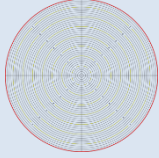
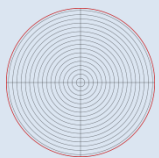
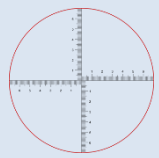
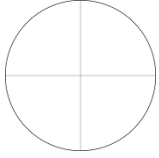
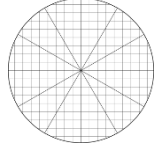
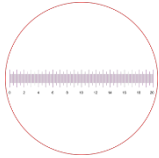
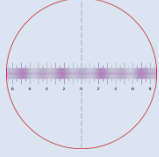
The values (in mm) are approximate and not binding.  
Other values and magnifications on request.

Fixed optics		
Magnification choice	Field of view $\varnothing$	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

The values (in mm) are approximate and not binding.  
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.

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

## Options

	<b>Concentricity measuring tool for T-slot</b> MA 143-007-02 (70) MA 145-003-02 (150)		<b>Cast iron rotary table with graduation</b> MA 145-15-70G (150)
	<b>Concentricity control for T-slot</b> MA 145r (150)		<b>Aluminum rotary table</b> MA 145-16-70 (150)
	<b>Manual divider for T-slot</b> MA 145d (150)		<b>Aluminum rotary table with graduation</b> MA 145-16-70G (150)
	<b>±15° rotating between centers clamping bracket for T-slot</b> MA 145a (150)		<b>Aluminum rotary table</b> MA 146-16-75G (200)
	<b>Prism with clamping flange for T-slot</b> MA 145e (150)		<b>Vice (capacity 15mm)</b> MA 143b-004
	<b>Crocodile-pliers for T-slot</b> MA 145b (150)		<b>Adjustable vice (capacity 15mm)</b> MA 143b-005
	<b>Clamp with parallel jaws for T-slot</b> MA 145b-001 (150)		<b>Crocodile-pliers on round support</b> MA 143-010-01
	<b>Collet holder for T-slot</b> MA 145bZ (150)		<b>Clamp with parallel jaws on round support</b> MA 143-010-02
	<b>V-block with spring clip for T-slot</b> MA 145c (150)		<b>Collet holder on round support</b> MA 143-010-03
	<b>Digital display Mx100</b> MCA-300-101		<b>V-block with spring clip on round support</b> MA 143-010-04
	<b>Digital calculator Mx200</b> MCA-300-201		