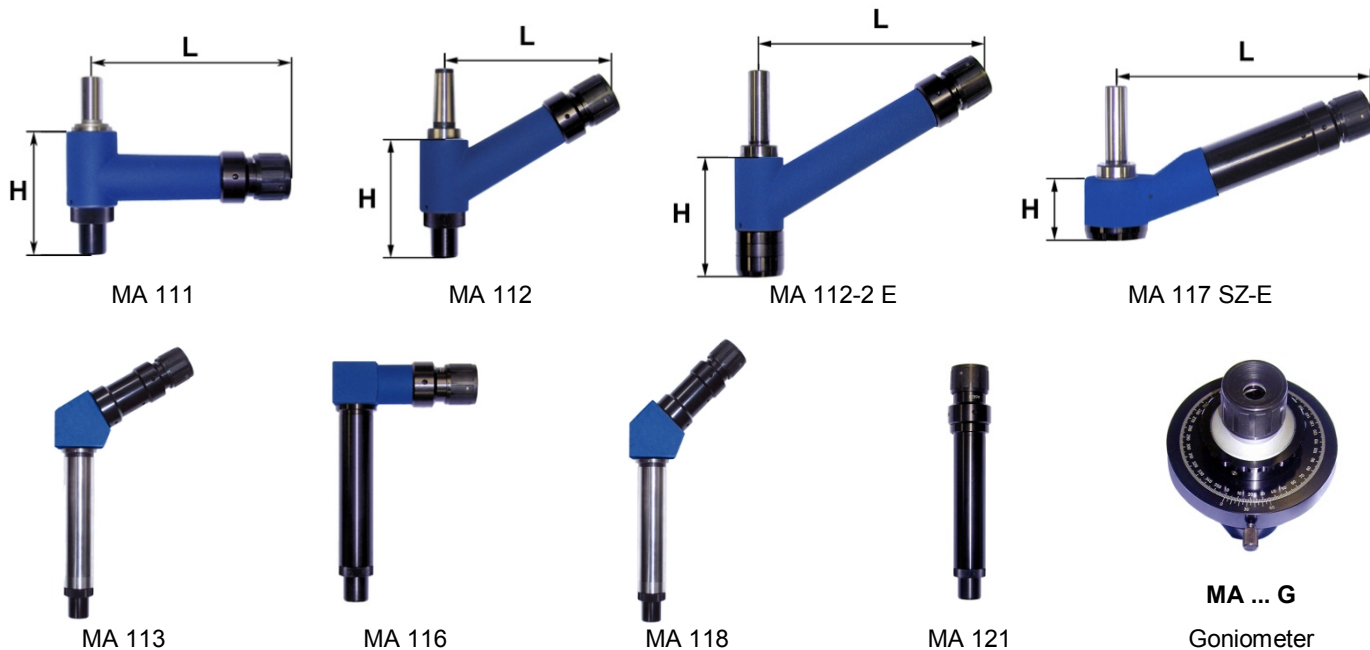




Centering microscopes



Magnification	10x	15x	20x	25x	30x	40x	50x	60x	75x	100x	Working distance
Field of view Ø in mm	13.8	9.2	6.9	5.5	4.6	3.4	2.7	2.3	1.8	1.3	
MA 111	147	102	72	55	47	34	32	18		13	
MA 112	145	100	78	65	54	40	31	16		14	
MA 112-2 E	185	145	100	77	65	53	40	33	25	15	
MA 113	260	160	115	90	80	60	50	45	35	28	
MA 116	230	162	120	97	80	55	47	40	30	22	
MA 117 SZ-E-1 / L = 150 mm	55	35	33	22							
MA 117 SZ-E-2 / L = 170 mm	65	33	43	32	17						
MA 117 SZ-E-3 / L = 190 mm	85	40	50	40	15						
MA 118	109		107		106	70	62			33	
MA 121	168	125	92	73	60	48	35	30	23	16	

The dimensions (in mm) are approximate and may be altered. Other dimensions and magnifications on request.

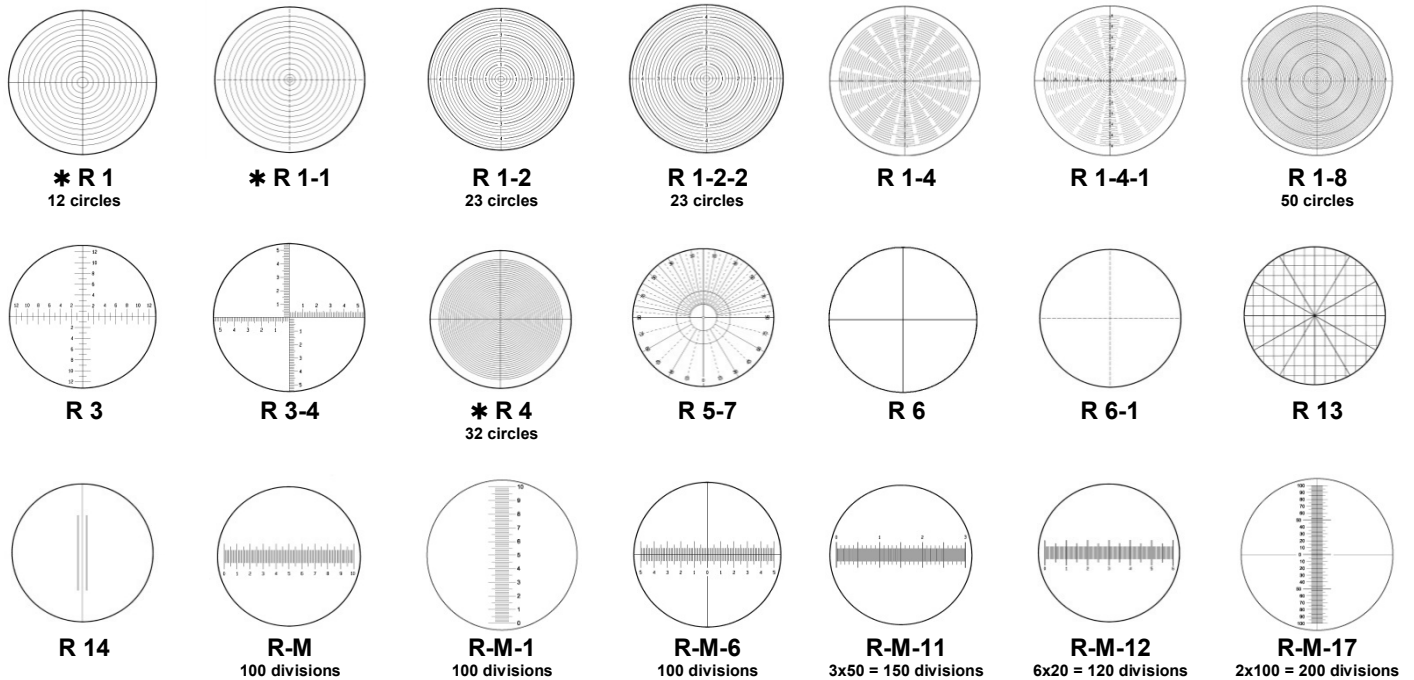
Type-MA	111	112	112-2	112-2E	113	116	118	121
Angle of view	90°	120°	120°	120°	120°	90°	135°	0°
Tube Ø 25x110 mm					✓	✓	✓	✓
Tube Ø 30x110 mm								
Illumination integrated				✓				
Distance "L" in mm	125	110	150	150				
Height "H" in mm	77	77	77	75.5				
Real image	✓	✓	✓	✓	✓	✓	✓	✓

Type-MA	117SZ/1	117SZ/2	117SZ/3	117SZ-E1	117SZ-E2	117SZ-E3
Angle of view	110°	110°	110°	110°	110°	110°
Length of eyepiece tube in mm	50	70	90	50	70	92
Illumination integrated				✓	✓	✓
Distance "L" in mm	150	170	190	150	170	190
Height "H" in mm	34.5	34.5	34.5	44	44	44
Real image	✓	✓	✓	✓	✓	✓

Reticles

Microscopes are normally supplied with reticles **R 1**. Any of the reticles shown below can be supplied. (All the others reticles are calibrated according to the distances indicated in the table below).

They are not interchangeable. Other designs can be supplied to customers specification at an extra charge.



* Calibration on request

	* R 1 / R 1-1	R 1-2	R 1-2-2	R 1-4	R 1-4-1	R 1-8	R 3	R 3-4 / R-M / R-M-1 / R-M-6	R-M-11	R-M-12	R-M-17
10x	0.5				0.1		0.5	0.125		0.1	
12.5x						0.1		0.1			0.05
15x		0.2									
20x	0.25			0.05	0.05		0.25			0.05	
25x	0.2					0.05	0.2	0.05			0.025
30x		0.1	0.1								
40x				0.025							
42x									0.02		
50x	0.1						0.1	0.025		0.02	0.0125
60x			0.05								
62.5x								0.02			0.01
100x	0.05						0.05	0.0125		0.01	
125x								0.01			0.005

The table shows the space (in mm) between 2 division lines or 2 circles for each indicated magnification. Advantageous divisions can be obtained for other reticles by the choice of suitable magnification.

Cylindrical and taper mounting holders (with thread M20x0.75)



Cylinder
Ø 4x20 mm to
Ø 25x120 mm



ISO taper
DIN 2080
20/25/30/40/50



ISO Taper
DIN 69871A



Japan BT
30/40/50



Morse taper
Schaublin:
SV / SW / B-..
HSK taper