

Digital Self-Centering Inside Micrometer Micromar 44 EWR



Features

Functions:
 0 (Setting the display to zero for Relative measurement)
 ABS (Switching between Relative and Absolute measurement)
 mm/inch
 PR (Reference setting)

Applications

- For measuring:
- through holes
 - blind holes
 - centering shoulders

- Basic Instrument consists of: Basic Unit 44 EXg and Measuring Head 44 Ak
- Threaded connection for changing the measuring heads
- Self-Centering measuring head consists of 3 laterally positioned anvils, each are offset at intervals of 120°
- Anvils from 12 mm are carbide tipped
- From 12 mm the anvils can be used to measure to the bottom of a bore
- From 40 mm all measuring heads are made from aluminum to reduce weight
- Supplied with: Case, battery and operating instructions

Technical Data

Measuring range		Measuring depth mm	Readings mm / inch	Error limit G* µm	Order no.
mm	(inch)				
6 - 8	(.25 - .3125")	58 / (133**)	0,001 / .00005"	4	4191120
8 - 10	(.3125 - .4")	58 / (133**)	0,001 / .00005"	4	4191121
10 - 12	(.4 - .4725")	58 / (133**)	0,001 / .00005"	4	4191122
12 - 16	(.4725 - .625")	64 / (139**)	0,001 / .00005"	4	4191123
16 - 20	(.625 - .775")	64 / (139**)	0,001 / .00005"	4	4191124
20 - 25	(.775 - 1")	68 / (218**)	0,001 / .00005"	4	4191125
25 - 30	(1 - 1.2")	68 / (218**)	0,001 / .00005"	4	4191126
30 - 40	(1.2 - 1.6")	76 / (226**)	0,001 / .00005"	4	4191127
40 - 50	(1.6 - 2")	76 / (226**)	0,001 / .00005"	4	4191129
50 - 60	(2 - 2.35")	79 / (229**)	0,001 / .00005"	5	4191130
60 - 70	(2.35 - 2.75")	79 / (229**)	0,001 / .00005"	5	4191131
70 - 85	(2.75 - 3.35")	97 / (247**)	0,001 / .00005"	5	4191032
85 - 100	(3.35 - 4")	97 / (247**)	0,001 / .00005"	5	4191033
100 - 125	(4 - 4.9")	132 / (282**)	0,001 / .00005"	6	4191034
125 - 150	(4.9 - 5.9")	132 / (282**)	0,001 / .00005"	6	4191035
150 - 175	(5.9 - 6.9")	132 / (282**)	0,001 / .00005"	7	4191036
175 - 200	(6.9 - 7.9")	132 / (282**)	0,001 / .00005"	7	4191037

* Over the full length of the anvils

** With the extension 44 Av

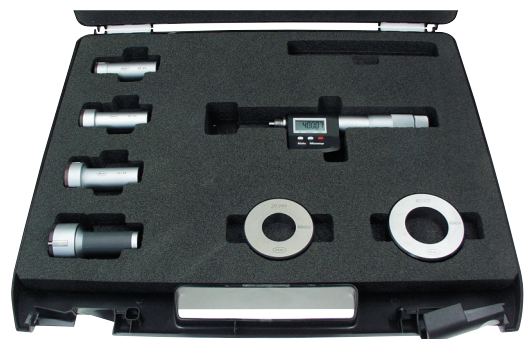
Accessories

Measuring heads, ring gages, etc. please refer to page 3-32

Digital Self-Centering Inside Micrometer Sets Micromar 44 EWR

Measuring range		Number of measuring heads 44 Ak	Ring gages dia. mm	Order no.
mm	(inch)			
6 - 12	(.25 - .4725")	3	8 / 10	4191160
12 - 20	(.4725 - .775")	2	16	4191161
20 - 50	(.775" - 2")	4	25 / 40	4191162
50 - 100	(2 - 4")	4	60 / 85	4191163

- Supplied with:
 1 Basic Unit 44 EWg, Measuring Heads 44 Ak, case and ring gages



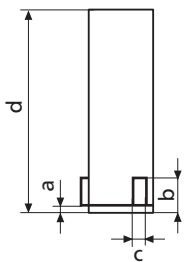
Accessories for Micromar 44 A, 44 EWR, 844 A

Measuring Heads 44 Ak for 44 EWR

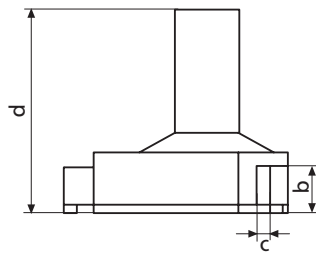
- Self-centering measuring head consists of 3 laterally positioned anvils, each are offset at intervals of 120°
- Anvils from 12 mm are carbide tipped
- From 12 mm, anvils can be used to measure to the base of a bore
- From 40 mm all measuring heads are made from aluminum to reduce weight

Measuring range		Order no.
mm	(inch)	
6 - 8	(.25 - .3125")	4190330
8 - 10	(.3125 - .4725")	4190331
10 - 12	(.4725 - .5")	4190332
12 - 16	(.5 - .625")	4190333
16 - 20	(.625 - .775")	4190334
20 - 25	(.775 - 1")	4190335
25 - 30	(1 - 1.2")	4190336
30 - 40	(1.2 - 1.6")	4190337
40 - 50	(1.6 - 2")	4190339
50 - 60	(2 - 2.35")	4190340
60 - 70	(2.35 - 2.75")	4190341
70 - 85	(2.75 - 3.35")	4190042
85 - 100	(3.35 - 4")	4190043
100 - 125	(4 - 4.9")	4190044
125 - 150	(4.9 - 5.9")	4190045
150 - 175	(5.9 - 6.9")	4190046
175 - 200	(6.9 - 7.9")	4190047

Meas. range 6 - 12 mm



Meas. range 12 - 200 mm



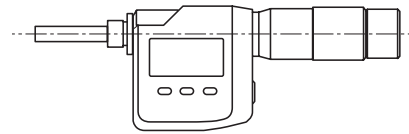
Measuring range	a	b	c	d
mm				
6 - 8	1.5	4	1.5	58
8 - 10	1.8	4.3	1.5	58
10 - 12	1.8	4.3	1.5	58
12 - 16	-	6.5	4	64
16 - 20	-	6.5	4	64
20 - 25	-	9	4	68
25 - 30	-	9	4	68
30 - 40	-	15	5	76
40 - 50	-	15	5	76
50 - 60	-	18	5	79
60 - 70	-	18	5	79
70 - 85	-	23	7	97
85 - 100	-	23	7	97
100 - 125	-	27	7	132
125 - 150	-	27	7	132
150 - 175	-	27	7	132
175 - 200	-	27	7	132

Ring Gages 355 E

- Can be used for 2 consecutive measuring ranges
- Manufacturing tolerance in accordance to DIN 2250C

dia. mm	Order no.	dia. mm	Order no.
8	4710026	60	4710080
10	4710030	85	4710105
16	4710036	125	4710121
25	4710045	175	4710122
40	4710060		

Basic Unit 44 EWg

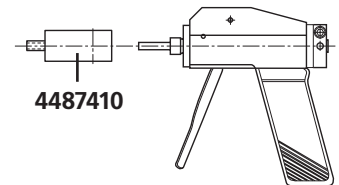


Threaded connection for changing the measuring heads

Measuring range	Order no.
mm	
6 - 20	4190106
20 - 100	4190107
100 - 200	4190108

Basic Unit Measuring Pistol 844 Ag

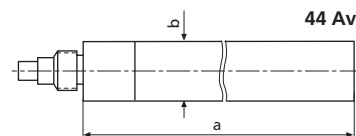
Threaded connection for changing the measuring heads. Any indicating instrument with an 8 mm mounting shank can be used.



Measuring range	Order no.
mm (inch)	
6 - 100* (.25 - 4.0")	4487630
20 - 100 (.775 - 4.0")	4487631
100 - 200 (4.0 - 7.9")	4487632

* Includes adapter 4487410

Depth Extension Rod 44 Av



Measuring range	Length a	dia. b	Order no.
mm (inch)	mm	mm	
6 - 12 (.25 - .5")	75	5.8	4190090
12 - 20 (.5 - .775")	75	9.5	4190091
20 - 30 (.775 - 1.2")	150	19.0	4190092
30 - 200 (1.2 - 7.9")	150	22.0	4190093