

Micrometer with integrated Dial Comparator 40 F / FC

DIN
863-3



Application

- For rapid measurements of diameters of cylindrical parts (shafts, bolts and shanks)
- Measurements of thickness and length
- Recommended for standard precision parts

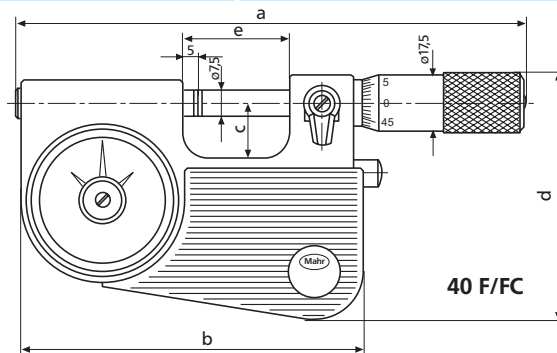
Features

- Chrome plated steel frame with heat insulators
- Maximum stability
- Retraction of the movable anvil and carbide-tipped measuring faces ensures maximum wear resistance
- Longer service life due to the ceramic measuring faces (40 FC)
- Measuring spindle made of stainless steel, hardened throughout and ground, lockable
- Scales with satin-chrome finish
- Constant measuring force
- Dial Comparator is integrated in frame
- Adjustable tolerance markers
- Supplied with: Case

Technical Data

	Measuring range	Retraction	Measuring faces Flatness Parallelism	Measuring force	Order no.	Remarks
40 F	0 - 25 mm	1 mm	≤0.2 µm	9 N	4150000	
	25 - 50 mm	1 mm	≤0.2 µm	9 N	4150001	
	0 - 1"	.04"	≤.00001"	9 N	4150900	
	1 - 2"	.04"	≤.00001"	9 N	4150901	
40 FC	0 - 25 mm	1 mm	≤0.2 µm	9 N	4150200	Ceramic measuring faces
	25 - 50 mm	1 mm	≤0.2 µm	9 N	4150201	

Micrometer			Dial Comparator		
Readings	Error limit G_{me}	Spindle thread pitch	Error limit G_e (DIN 879)	Meas. range	Spindle thread pitch
0.01 mm .0001"	≤2 µm ≤.00008"	0.5 mm .025"	1 µm .00005"	±65 µm ±.0025"	1 µm .00005"



Dimensions

Dimensions in mm		a*	b	c	d	e
40 F/FC	0-25 mm (0-1")	149	100	16	71	32
	25-50 mm (1-2")	174	125	30	85	56

* in zero position

Accessories

Stand, setting standards, etc. please refer to page 3-22

Accessories for Micrometers



Stand 41 H

- For mounting a micrometer
- Enables the user to use both hands to operate the micrometer and / or to insert a work piece
- Sturdy, heavy-duty base, hammer-dimple enamel finish
- Clamping jaws are rubber lined to protect micrometer, the clamping jaws can be tilted
- Both the clamping jaws and hinge are fixed in place with one screw

Dimensions

(D x W x H)

130 x 100 x 90 mm

Order no.

4158000

Ball shaped Anvil Attachment 40 k

- For measuring the thickness, for example: of pipe walls
- Slips over every anvil or the spindle with a dia. 7.5 mm
- Carbide ball,
Ball dia. 5 ± 0.002 mm



Order no. 4130099

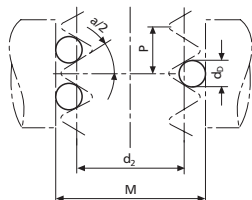
Setting Standards 43 A

- For testing the basic setting of a micrometer
- Heat insulated handle
- Manufacturing tolerance js 2



Thread Pin Gage 426 M in holder

- For determining the pitch diameter of external threads according to the three wire method
 - Slips over every anvil or the spindle
 - Pin gages are hardened and lapped



Length mm	Order no.	Length inch	Order no.
25	4159400	1"	4159940
50	4159401	2"	4159941
75	4159402	3"	4159942
100	4159403	4"	4159943
125	4159404	5"	4159944
150	4159405	6"	4159945
175	4159406	7"	4159946

Wooden Cases for Micrometer

For measuring ranges over 100 mm the following wooden cases are available:

	40 SH	40 SM	Order no.
Meas. range	100-125	95-120	4130064
mm	125-150	120-145	4130065
	150-175	145-170	4130066
	175-200	170-195	4130067

Pin gage dia.	Manufacturing tol.	Mounting hole
0.17 - 5.05 mm	$\pm 0.5 \mu\text{m}$	dia. 6.5 mm / 7.5 mm

Order no. and further details see page 13-18