

Micrometer with Dial Comparator 40 T

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

- Rugged steel frame, heat insulated and chrome plated (up to measuring range 100 - 150 mm)
- Maximum stability
- Retraction of the movable anvil and carbide-tipped measuring faces ensures maximum wear resistance
- Measuring spindle made of stainless steel, hardened throughout and ground, lockable
- Scales with satin-chrome finish
- Constant measuring force
- Heat insulators
- Supplied with: Dial Comparator 1003, wooden case

Technical Data

Measuring range	Retraction	Measuring faces Flatness	Measuring faces Parallelism	Measuring force	Order no.*
0 - 25 mm	1.2 mm	$\leq 0.2 \mu\text{m}$	$\leq 2 \mu\text{m}$	6.5 N	4154000
25 - 50 mm	1.2 mm	$\leq 0.2 \mu\text{m}$	$\leq 2 \mu\text{m}$	6.5 N	4154001
50 - 100 mm	1.2 mm	$\leq 0.2 \mu\text{m}$	$\leq 2 \mu\text{m}$	6.5 N	4154002
100 - 150 mm	1.2 mm	$\leq 0.2 \mu\text{m}$	$\leq 2 \mu\text{m}$	7.5 N	4154003
150 - 200 mm	1.2 mm	$\leq 0.2 \mu\text{m}$	$\leq 2 \mu\text{m}$	7.5 N	4154004

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	$\leq 2 \mu\text{m}$	0.5 mm	1 μm	$\pm 50 \mu\text{m}$	1 μm

Dimensions

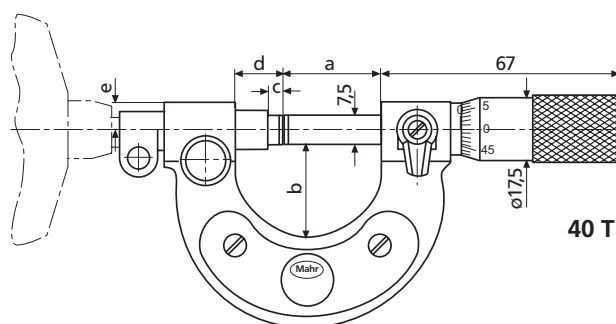
Dimensions in mm	a**	b	c	d**	e
0 - 25	27	28	4	11	8
25 - 50	52	40	4	11	8
50 - 100	76	65	5.5	30	8
100 - 150	127	87	5.5	30	8
150 - 200	177	112	5.5	30	8

* Alternative indicating instruments are available on request

** in zero position

Accessories

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



Indicating Snap Gage 840 F
see page 9-8



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

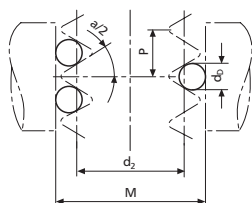
Setting Standards 43 A

- 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