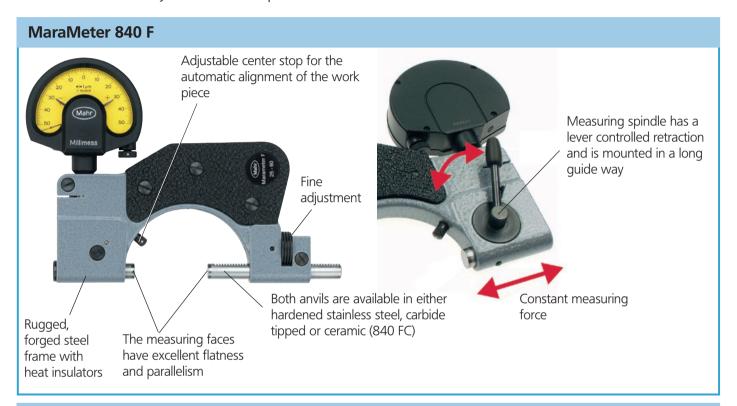


MaraMeter. Indicating Snap Gages

Overview

▶ | MaraMeter. The Indicating Snap Gage is ideal for highly accurate and reliable results on cylindrical work pieces with a narrow tolerance.



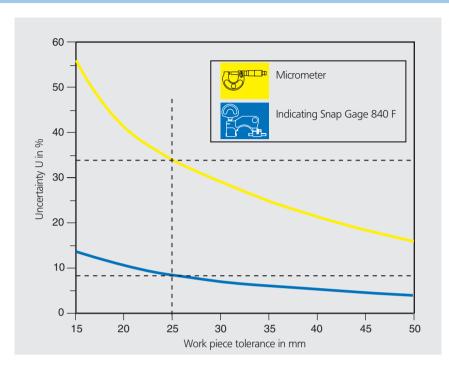




Advantages of the Snap Gage compared to a Micrometer

Reduced Measuring Uncertainity

The MaraMeter Indicating Snap Gages have a notably reduced measuring uncertainty in comparison to to a Micrometer.



Measuring Uncertainty U is dependent upon the tolerance of the work piece

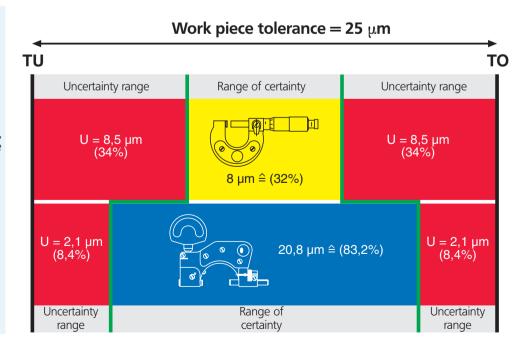
Better utilization of the tolerance zone

Example:

Work piece tolerance 25 µm

The measured value in the uncertainty range can lie outside of the tolerance range, therefore the utilized tolerance of the micrometer is reduced to only 32% (8 µm).

With a MaraMeter Indicating Snap Gage 83% (20.8 μ m) of the work piece tolerance can be utilized.



Advantage:

With the Indicating Snap Gage the tolerance zone can be used to far greater extent, thus reducing the production costs.



Indicating Snap Gages 840 F / 840 FC MaraMeter F



Features

- For cylindrical parts such as shafts, bolts and spindles, for thickness and length measurements
- Rugged, forged steel frame with heat insulators
- Measuring spindle is mounted in long guide way with levercontrolled retraction
- Anvil spindle can easily be fine adjusted
- Measuring spindle and anvil spindle are both made of hardened stainless steel, carbide-tipped or ceramic (840 FC) measuring faces
- Adjustable center stop for automatic alignment
- Maximum wear resistance due to non-contact positioning in conjunction with carbidetipped measuring faces
- Constant measuring force as a result of built-in spring, thus eliminating user influence
- Universally applicable and extremely versatile. Each instrument spans a broad measuring range, within this range any dimension and fit can be very quickly and easily adjusted

Technical Data

Catalog no.	Measu ran g mm		Measuring** force N	Distance of moveable anvil mm	Measu l Flatness μm	r ing face Parallelism μm	Order no.* W	Order no. Jooden case
840 F	0 - 25	(0 - 1")	7.5	2	≤ 0.2	≤ 1	4450000	4450010
	25 - 60	(1 - 2.36")	7.5	2	≤ 0.2	≤ 2	4450001	4450011
	50 - 100	(2 - 4")	7.5	2.5	≤ 0.2	≤ 2	4450002	4450012
	100 - 150	(4 - 6")	7.5	2.5	≤ 0.2	≤ 2	4450003	4450013
	150 - 200	(6 - 8")	7.5	2.5	≤ 0.2	≤ 2	4450004	4450014
840 FC	0 - 25	(0 - 1")	7.5	2	≤ 0.2	≤ 1	4450100	4450010
	25 - 60	(1 - 2.36")	7.5	2	≤ 0.2	≤ 2	4450101	4450011

^{*} Excludes indicating instrument ** Further measuring forces are available on request

Indicating Instruments

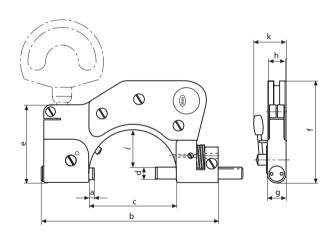
All indicating instruments that has a 8 mm mounting shank may be used. Recommended are:

Dial Comparator	Readings mm / inch	Order no. mm / inch
Compramess 1004 / 1004 Z Millimess 1003 / 1003 Z Millimess 1003 XL Supramess 1002 / 1002 Z	5 μm / .0001" 1 μm / .00005" 2 μm 0.5 μm / .00002"	4333000 / 4333900 4334000 / 4334900 4334001 4335000 / 4335900
Extramess 2000	0.2 μm / .00001" 0.5 μm / .00002" 1 μm / .00005"	4346000*
Extramess 2001	0.2 μm / .00001" 0.5 μm / .00002" 1 μm / .00005"	4346100*
μ Max μ m	0.5 μm / .00002"	EDI-20302**



^{* 230} V, for 115 V please refer to page 6-5

^{**} requires contact 4360107



Meas. range mm	0 - 25	25 - 60	50 - 100	100 - 150	150 - 200		
a* b c d e f g h k	5 97 34 8 54 65 12 13 23	5 140 68 9 60 77 13 13 25 30	6.5 193 110 10 60 103 14 13 28 54	6.5 258 162 12 70 141 16 12 31	6.5 316 212 12 75 171 16 12 31		
* In initial position							

^{*} In initial position

Accessories

Reference Discs 390 see Chapter 13 **Gage Blocks** see Chapter 13

Holder 840 Fk and Stand 840 Ff see Page 9-15





Accessories for Dial Indicators and Dial Comparators



Holder 840 Fk for Dial Indicators and Dial Comparators

- For attaching to the following measuring instruments
 840 F/FC, 840 FH, 840 FG, 840 FM and 852
- Straight transfer of the spindle movement to the indicator
- Following the Abbe principle allows an even higher degree of accuracy than the already excellent level obtained with the standard set-up employing 90° transmission
- When the indicating instrument is in the shown position it is often easier to read
- For stationary application when in conjunction with the Stand 840 Ff

Catalog no.		Suitable for instruments with measuring ranges (mm)					
	840 F/FC	840 FH	840 FG	840 FM	852		
840 Fk/1 840 Fk/2 840 Fk/3 840 Fk/4	0 - 25 25 - 60 50 - 100 {100 - 150 {150 - 200	0 - 30 30 - 80	0 - 50 40 - 90	0 - 40 40 - 80 80 - 130 130 - 180	0 - 45 45 - 85 85 - 140 140 - 190	4450050 4450051 4450052 4450053	



Stand 840 Ff

- For stationary application in conjunction with the following measuring instruments
 840 F/FC, 840 FH, 840 FG,
 840 FM, 840 E and 852
- User has both hands free for insertion of work piece and retraction of moving spindle
- Indicating instrument is always in operator's feld of vision
- Rugged, rigid cast-iron stand with clamp for locking the indicating snap gage
- Indicating snap gage is locked in mounting hole for dial comparator
- Only in conjunction with **Holder 840 Fk**

Catalog	Catalog no. Suitable for instruments with measuring ranges (mm)						Order no.
	840 F/FC	840 FH	840 FG	840 FM	840 E	852	
840 Ff	{ 0 - 25 25 - 60	0 - 30	0 - 50	0 - 40	0 - 25	0 - 45	4450020