



MaraMeter. Indicating Snap Gages

The ideal product range for highly accurate measurements

- Improves efficiency
- Delivers accurate and reliable measurement results
- Reduces costs

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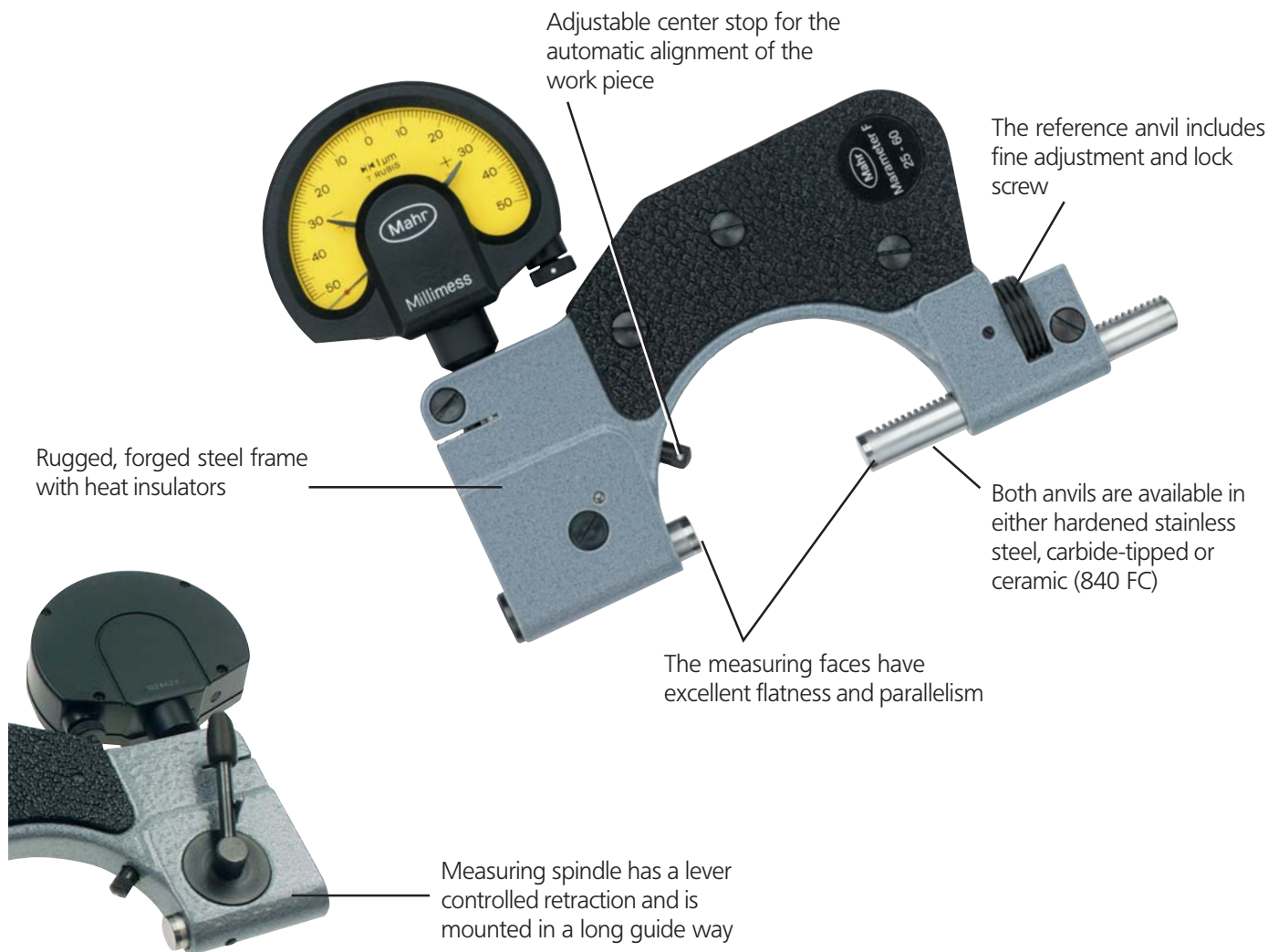
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EXACTLY

MaraMeter. Indicating Snap Gages 840 F / 840 FC

Overview

▶ I **MaraMeter** 840 F. The Indicating Snap Gage is ideal for highly accurate and reliable results on cylindrical work pieces with a narrow tolerance. I ◀



Technical Data

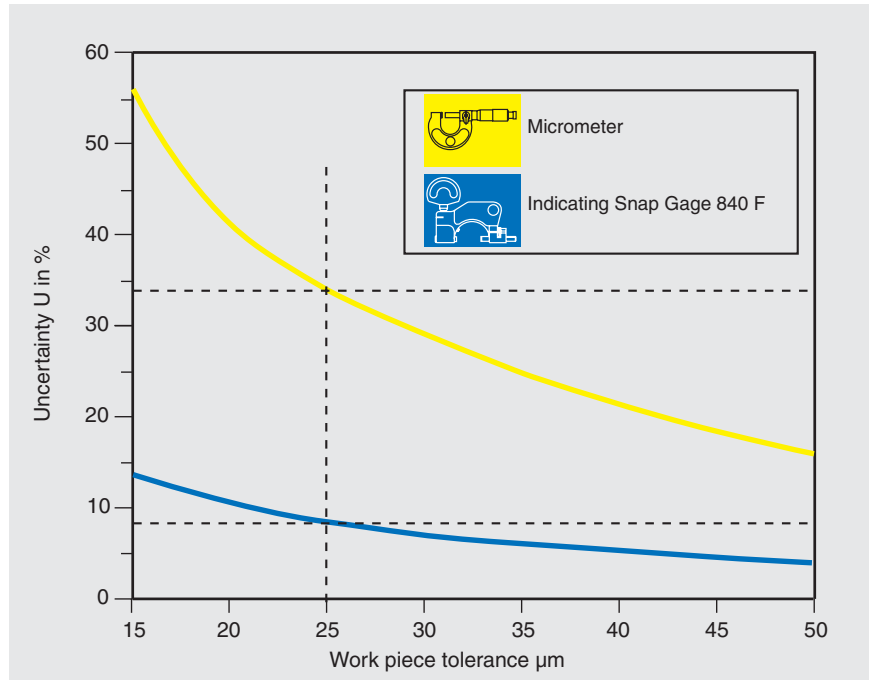
	Measuring range		Measuring** force N	Distance of moveable anvil		Measuring face		Order no.*	Order no. Wooden case
	mm	(inch)		mm	(inch)	Flatness µm	Parallelism µm		
840 F	0 - 25	(0 - 1")	7.5	2	(0.079")	≤ 0.2	≤ 1	4450000	4450010
	25 - 60	(1 - 2.36")	7.5	2	(0.079")	≤ 0.2	≤ 2	4450001	4450011
	50 - 100	(2 - 4")	7.5	2.5	(0.098")	≤ 0.2	≤ 2	4450002	4450012
	100 - 150	(4 - 6")	7.5	2.5	(0.098")	≤ 0.2	≤ 2	4450003	4450013
	150 - 200	(6 - 8")	7.5	2.5	(0.098")	≤ 0.2	≤ 2	4450004	4450014
840 FC	0 - 25	(0 - 1")	7.5	2	(0.079")	≤ 0.2	≤ 1	4450100	4450010
	25 - 60	(1 - 2.36")	7.5	2	(0.079")	≤ 0.2	≤ 2	4450101	4450011

* Excludes indicating instrument ** Further measuring forces are available on request

Advantages of the 840 F compared to a Micrometer

• Reduced Measuring Uncertainty

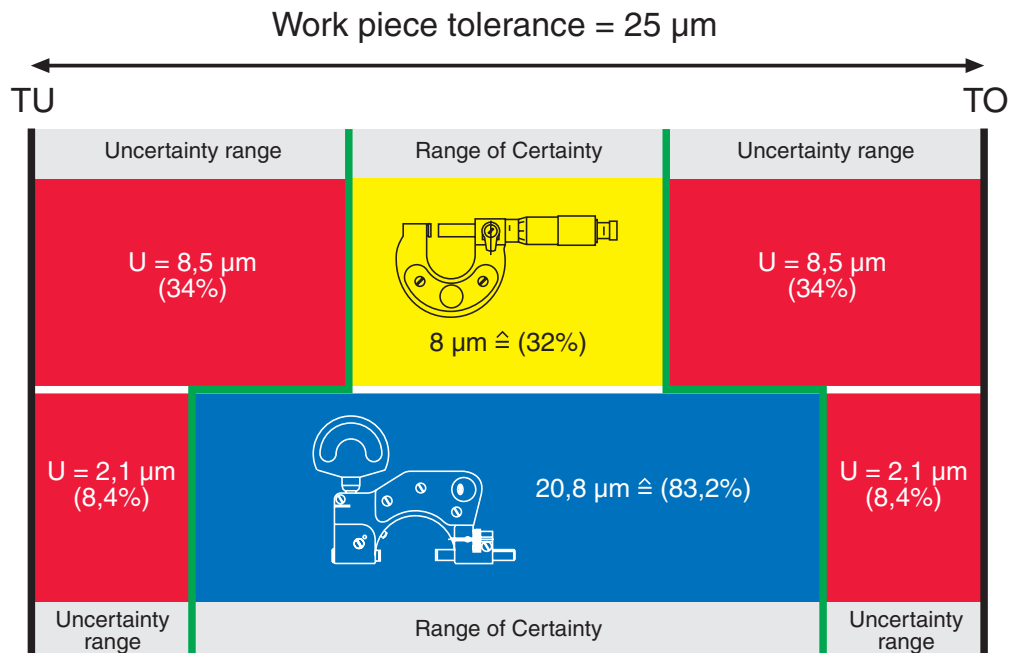
The MaraMeter Indicating Snap Gages have a notably reduced measuring uncertainty in comparison to a Micrometer.



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 840 F 83% (20,8 μm) of the work piece tolerance can be utilized.



Advantage:

With the Indicating Snap Gage 840 F the tolerance zone can be used to far greater extent, thus reducing the production costs.

Advantages of the 840 F compared to a Limit Roller Snap Gage

The Measuring Result is displayed as a Value ...



... which enables:

- Statistical Process Control
- Setting up and/or adjusting a processing machine
- Well timed tool change, for example the replacement of a grinding wheel.



Advantage: Reliable production processes reduces costs

There is no influence caused by the worker upon the measuring results



- With the constant measuring force eliminates the influence of the worker upon the measuring results.

Advantage: the results permit reliable manufacturing processes, these lower production costs

Results are either GO- NO GO



- No numerical value or measurement is obtained, therefore the manufacturing process cannot be steered appropriately.



- Changes to manufacturing processes cannot be identified in time.

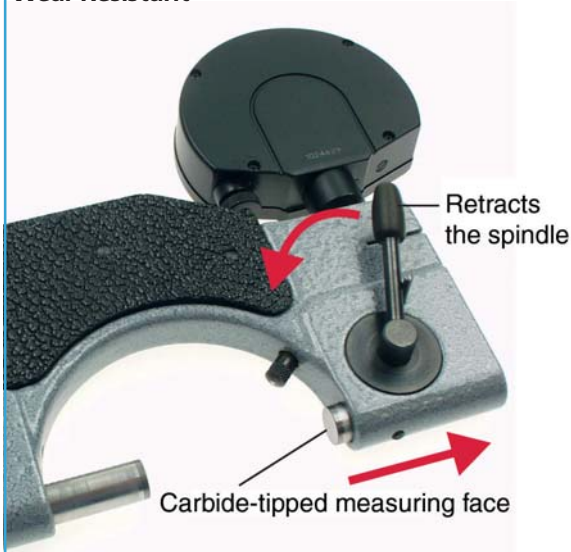
The worker can influence the accuracy of the measuring results



- The influence of the worker on a test / inspection results can be substantially affected through incorrect handling (bending upwards).

Advantages of the 840 F compared to a Limit Roller Snap Gage

Wear Resistant



- Minimum wear due to non-contact positioning of the work piece with the retracting sensitive anvil
- Reduced wear due to the carbide tipped measuring faces

Advantage: Cost saving due to long service life

High wear and tear



- High abrasion of the measuring faces due to the actual physical strain upon the measuring faces

Universal Application



- Can be quickly adjusted within the dimension and fit of the measuring range
- Additional costs are reduced (administration of measuring equipment, calibration)

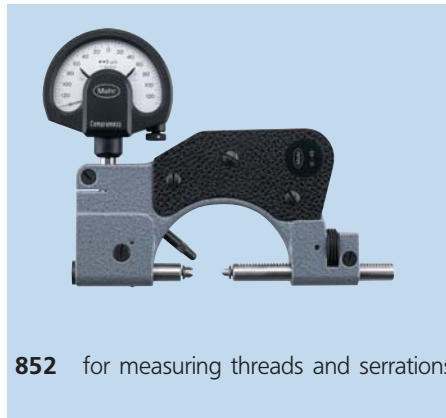
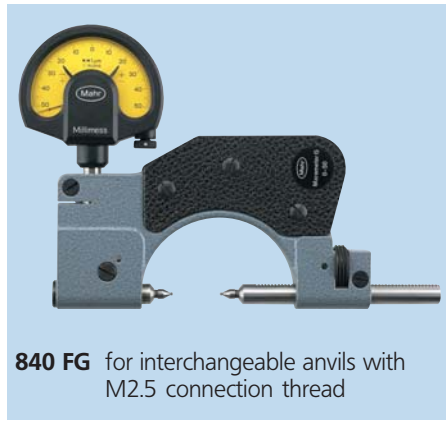
Advantage: Cost saving due to the universal application

For every dimension another snap gage is required



- Requires more storage, money is tied up in having a broader selection of snap gages
- Additional costs are thus higher (administration of measuring equipment, calibration, storage).

An Indicating Snap Gage for every application



- Our yardstick is your success. As one of the world's largest and innovative manufacturer of measuring equipment we make it our task to ensure that your results are accurate.

Our Catalog - Dimensional Metrology is available upon request!



Your Mahr-Partner:

We reserve the right to make changes to our products, especially due to technical improvements and further developments.

All illustrations and technical data are therefore without guarantee.

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