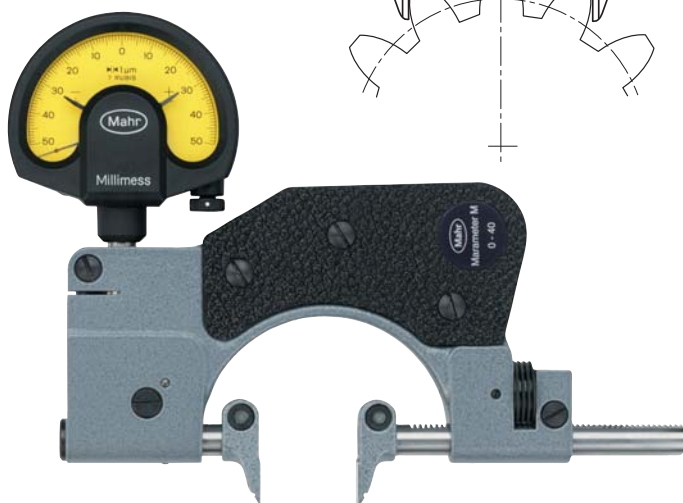


Willrich Precision Ph 866-945-5742 email: sales@willrich.com

Indicating Snap Gages 840 FM MaraMeter M with measuring jaws

Features

- For diameters of small hubs, registers, shoulders on shafts and groove widths as well as for tooth span W_k as indirect, reference-free determination of tooth thickness on spur gears with straight and helical teeth
- Rugged, forged steel frame with heat insulators
- Measuring spindle is mounted in long guide way with lever-controlled retraction
- Anvil spindle can easily be fine adjusted
- Maximum wear resistance due to non-contact positioning in conjunction with carbide-tipped measuring faces
- Measuring spindle and anvil spindle made of hardened stainless steel; with extending carbide-tipped measuring jaws
- 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
- Supplied with: Wooden case, steel flat contact points 903



Technical Data

	Measuring range		Repeatability	Measuring force	Measuring face			Tooth span	Order no.*	Order no.
	mm	(inch)	$f_w \mu m$	N	Area mm	Flatness μm	Parallelism μm	measurements as per module m		Wooden case
840 FM	0 - 40	(0 - 1.57")	1	7.5	12 x 12	≤ 0.5	≤ 2	0.5	4452000	4450011
	40 - 80	(1.57 - 3")	1	7.5	12 x 12	≤ 0.5	≤ 3	0.5	4452001	4450012
	80 - 130	(3 - 5")	1	9	15 x 17	≤ 0.5	≤ 3	1.0	4452002	4450013
	130 - 180	(5 - 7")	1	9	15 x 17	≤ 0.5	≤ 3	1.0	4452003	4450014

* Excludes indicating instrument

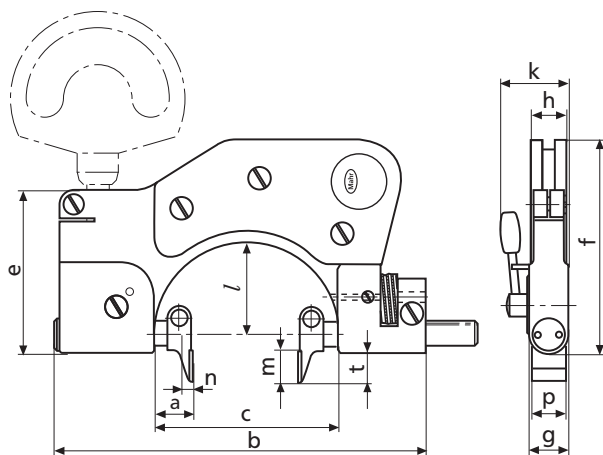
Dimensions

Meas. range (mm)	0 - 40	40 - 80	80 - 130	130 - 180
Dist mov. anvil (mm)	2	2.5	2.5	2.5
a*	14	14	19	15
b	140	193	258	316
c	68	110	162	212
e	60	60	70	75
f	77	103	141	171
g	13	14	16	16
h	13	13	12	12
k	25	28	31	31
l	34	59	87	112
m	12	12	17	17
p	12	12	15	15
t	11	11	17	17

* In initial position

Accessories

Indicating instruments, see Page 9-9
 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)					Order no.
	840 F/FC	840 FH	840 FG	840 FM	852	
840 Fk/1	0 - 25					4450050
840 Fk/2	25 - 60	0 - 30	0 - 50	0 - 40	0 - 45	4450051
840 Fk/3	50 - 100	30 - 80	40 - 90	40 - 80	45 - 85	4450052
840 Fk/4	100 - 150 150 - 200			80 - 130 130 - 180	85 - 140 140 - 190	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 field 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 no.	Suitable for instruments with measuring ranges (mm)					Order no.
	840 F/FC	840 FH	840 FG	840 FM	840 E	
840 Ff	0 - 25 25 - 60	0 - 30	0 - 50	0 - 40	0 - 25	4450020