
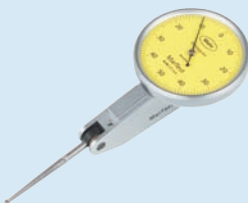






MarTest. Test Indicators

Overview

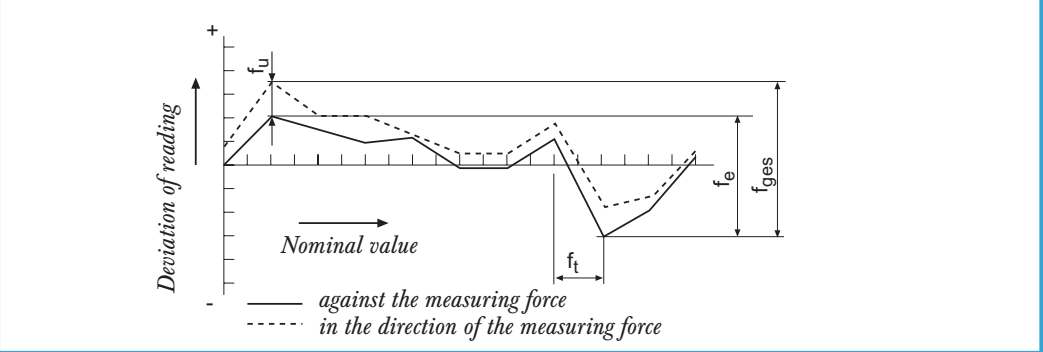
MarTest - Versions

		Measuring range	Dial style	Readings	DIN 2270	f _{ges}	f _e	f _u	f _t	f _w
	Standard	metric								
	800 S	+/- 0.4 mm	0-40-0	0.01 mm	●	13 μm	10 μm	3 μm	5 μm	3 μm
	800 SG	+/- 0.4 mm	0-40-0	0.01 mm	●	13 μm	10 μm	3 μm	5 μm	3 μm
	800 SA	+/- 0.25 mm	0-25-0	0.01 mm		8 μm	5 μm	3 μm	5 μm	3 μm
	800 SGA	+/- 0.25 mm	0-25-0	0.01 mm		8 μm	5 μm	3 μm	5 μm	3 μm
	inch									
	801 S1	+/- .015"	0-15-0	.001"		.0005"	.0004"	.00012"	.0002"	.0002"
	801 S	+/- .015"	0-15-0	.0005"		.0005"	.0004"	.00012"	.0002"	.0002"
	801 SG	+/- .015"	0-15-0	.0005"		.0005"	.0004"	.00012"	.0002"	.0002"
801 SGI	+/- .015"	0-15-0	.001"		.0005"	.0004"	.00012"	.0002"	.0002"	
		(+/-0.30 mm)	(0-30-0)	(0.01 mm)						
	Extra Long Styli	metric								
	800 SL	+/- 0.25 mm	0-25-0	0.01 mm		13 μm	10 μm	5 μm	5 μm	3 μm
	800 SGL	+/- 0.25 mm	0-25-0	0.01 mm		13 μm	10 μm	5 μm	5 μm	3 μm
	800 SGB	+/- 0.5 mm	0-50-0	0.01 mm		13 μm	10 μm	4 μm	5 μm	3 μm
	inch									
	801 SL	+/- .010"	0-10-0	.0005"		.0005"	.0004"	.0002"	.0002"	.00012"
801 SGL	+/- .010"	0-10-0	.0005"		.0005"	.0004"	.0002"	.0002"	.00012"	
	Higher Resolution	metric								
	800 SM	+/- 0.1 mm	0-100-0	0.002 mm	●	4 μm	3 μm	2 μm	2 μm	1.5 μm
	800 SGM	+/- 0.1 mm	0-100-0	0.002 mm	●	4 μm	3 μm	2 μm	2 μm	1.5 μm
	800 SGE	+/- 0.07 mm	0-70-0	0.001 mm		4 μm	3 μm	2 μm	2 μm	1.5 μm
	inch									
	801 SM	+/- .004"	0-4-0	.0001"		.00016"	.00012"	.00008"	.00008"	.00006"
	801 SGM	+/- .004"	0-4-0	.0001"		.00016"	.00012"	.00008"	.00008"	.00006"
801 SGE	+/- .004"	0-4-0	.00005"		.00016"	.00012"	.00008"	.00008"	.00006"	
	Larger Measuring Range	metric								
	800 SR	+/- 0.8 mm	0-40-0	0.01 mm		14 μm	10 μm	4 μm	5 μm	3 μm
	800 SRM	+/- 0.2 mm	0-100-0	0.002 mm		5 μm	3 μm	3 μm	2 μm	1.5 μm
	inch									
	801 SR	+/- .030"	0-15-0	.0005"		.0005"	.0004"	.00016"	.0002"	.00012"
801 SRM	+/- .008"	0-4-0	.0001"		.0002"	.00012"	.00012"	.00008"	.00006"	
	Horizontal Models	metric								
	800 H	+/- 0.4 mm	0-40-0	0.01mm	●	13 μm	10 μm	3 μm	5 μm	3 μm
	inch									
801 H	+/- .015"	0-15-0	.0005"		.0005"	.0004"	.00012"	.0002"	.00012"	
	Vertical Models	metric								
	800 V	+/- 0.4 mm	0-40-0	0.01 mm	●	13 μm	10 μm	3 μm	5 μm	3 μm
	800 VGM	+/- 0.1 mm	0-100-0	0.002 mm	●	4 μm	3 μm	2 μm	2 μm	1.5 μm
	inch									
	801 V	+/- .015"	0-15-0	.0005"		.0005"	.0004"	.00012"	.0002"	.00012"
801 VGM	+/- .004"	0-4-0	.0001"		.00016"	.00012"	.00008"	.00008"	.00006"	

* Only available in North America, Canada and Mexico; includes holding bar and clamp

Length of Styli	Order no.	Order no. with kit*
14.5 mm	4305200	2015309
14.5 mm	4307200	2015310
14.5 mm	4301200	2015343
14.5 mm	4301250	2015344
14.5 mm	4305960	2015317
14.5 mm	4305950	2015316
14.5 mm	4307950	2015318
14.5 mm	4307970	2015311
41.24 mm	4306200	2015312
41.24 mm	4306250	2015313
32.325 mm	4301300	2015346
41.24 mm	4306950	2015319
41.24 mm	4306960	2015320
14.5 mm	4308150	2015315
14.5 mm	4308200	2015314
9.155 mm	4308220	2015345
14.5 mm	4308960	2015321
14.5 mm	4308970	2015322
14.5 mm	4308985	2015323
14.5 mm	4307250	2015348
14.5 mm	4308250	2015349
14.5 mm	4307960	2015350
14.5 mm	4308980	2015351
14.5 mm	4303200	2015328
14.5 mm	4303950	2015324
14.5 mm	4302200	2015327
14.5 mm	4302250	2015347
14.5 mm	4302950	2015325
14.5 mm	4302960	2015326

Metrological characteristics



Design features of MarTest Test Indicators

SHOCK PROOF

- Dial face is sealed with an O-Ring
- Satin chrome finished housing
- Double lever supported in ball bearings, overload protection provided by slip clutch
- Contact point with carbide ball

Mechanism

- Shockproof
- Anti magnetic
- Movement bearings are jeweled with 8 precious stones
- Automatic matching to sensing direction, thus ensuring error-free reading

MarTest - Applications

Concentricity of a shaft

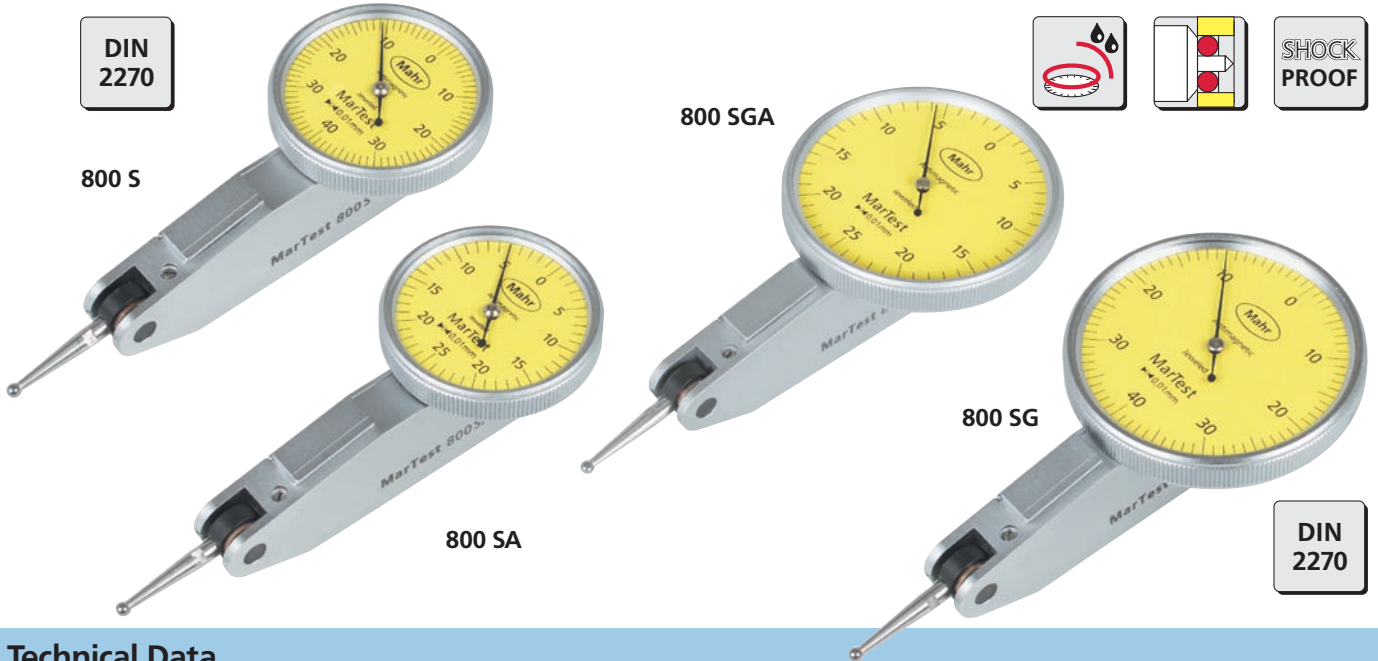
Concentricity of a sleeve

Centering of a bore

Aligning a surface

Testing parallelism

MarTest standard versions



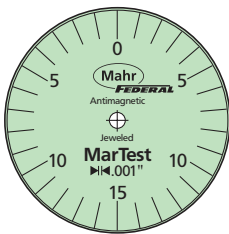
Technical Data

	Measuring range	Readings	Dial dia.	Measuring force	Length of styli	Order no.	Order no. with kit
800 S	± 0.4 mm	0.01 mm	27.5 mm	0.15 N	14.5 mm	4305200	2015309
800 SG	± 0.4 mm	0.01 mm	38 mm	0.15 N	14.5 mm	4307200	2015310
800 SA	± 0.25 mm	0.01 mm	27.5 mm	0.1 N	14.5 mm	4301200	2015343
800 SGA	± 0.25 mm	0.01 mm	38 mm	0.1 N	14.5 mm	4301250	2015344
801 S1	± .015"	.001"	1.1"	0.15 N	14.5 mm	4305960	2015317
801 S	± .015"	.0005"	1.1"	0.15 N	14.5 mm	4305950	2015316
801 SG	± .015"	.0005"	1.5"	0.15 N	14.5 mm	4307950	2015318
801 SGI	± .015" (± 0.3 mm)	.0005" (0.01 mm)	1.5"	0.15 N	14.5 mm	4307970	2015311

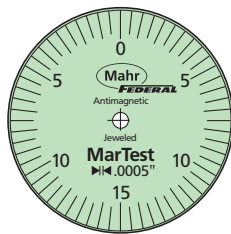
Supplied with:

Plastic storage case, spanner for changing the styli, styli dia. 2 mm, mounting shaft 800 a8 (for metric versions), mounting shaft 800 a6 (800 SA, 800 SGA), mounting shaft 800 a3/8 (for inch versions)

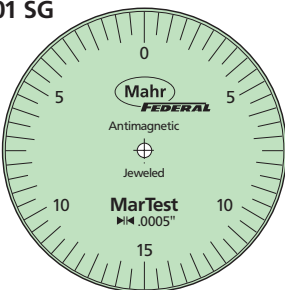
801 S1



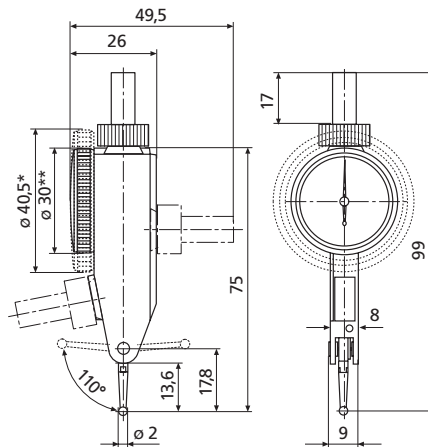
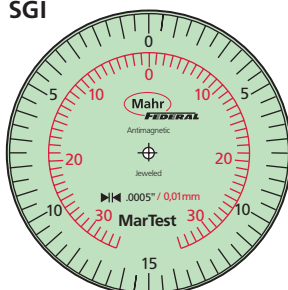
801 S



801 SG



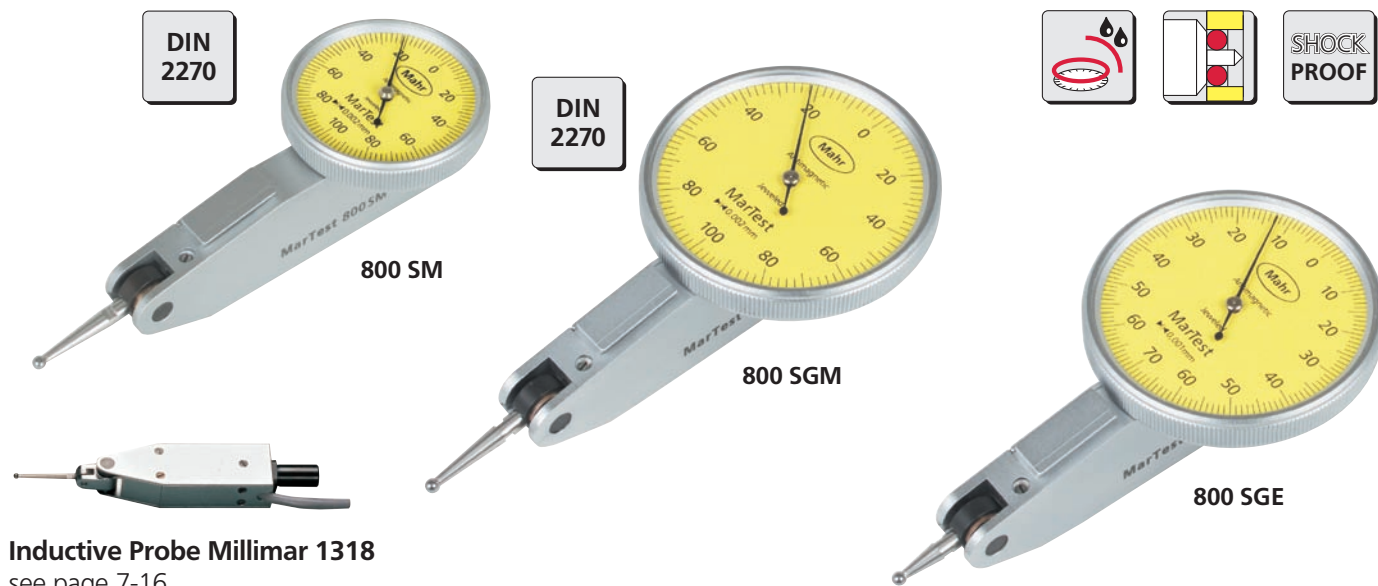
801 SGI



* 800 SG, 800 SGA, 801 SG, 801 SGI

** 800 S, 800 SA, 801 S1, 801 S

MarTest with resolution 0.002 mm/0.001 mm for higher accuracy



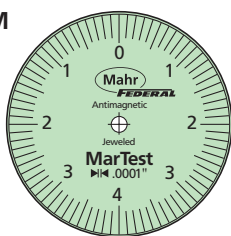
Inductive Probe Millimar 1318
see page 7-16

Technical Data

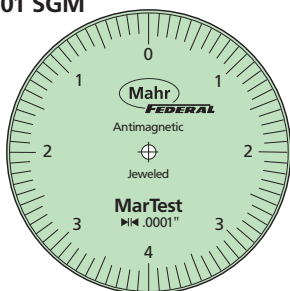
	Measuring range	Readings	Dial dia.	Measuring force	Length of styli	Order no.	Order no. with kit
800 SM	± 0.1 mm	0.002 mm	27.5 mm	0.15 N	14.5 mm	4308150	2015315
800 SGM	± 0.1 mm	0.002 mm	38 mm	0.15 N	14.5 mm	4308200	2015314
800 SGE	± 0.07 mm	0.001 mm	38 mm	0.2 N	14.5 mm	4308220	2015345
801 SM	± .004"	.0001"	1.1"	0.15 N	14.5 mm	4308960	2015321
801 SGM	± .004"	.0001"	1.5"	0.15 N	14.5 mm	4308970	2015322
801 SGE	± .004"	.00005"	1.5"	0.15 N	14.5 mm	4308985	2015323

Supplied with:
Plastic storage case, spanner for changing the styli, styli dia. 2 mm, mounting shaft 800 a8 (for metric versions), mounting shaft 800 a3/8 (for inch versions)

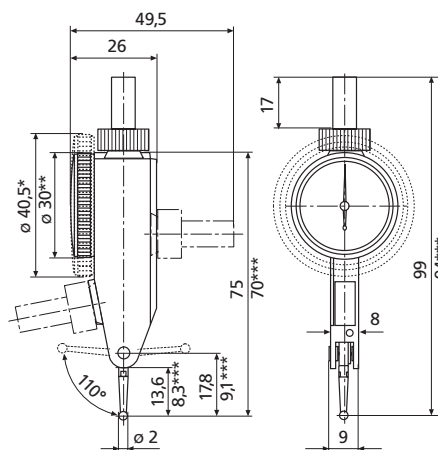
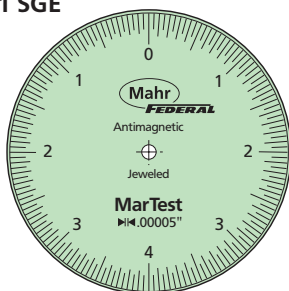
801 SM



801 SGM

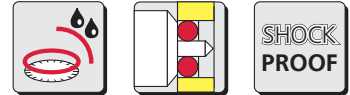


801 SGE



* 800 SGM, 800 SGE, 801 SGM, 801 SGE
** 800 SM, 801 SM
*** 800 SGE

MarTest with extra long styli for measuring in even difficult to access positions

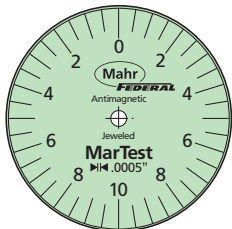


Technical Data

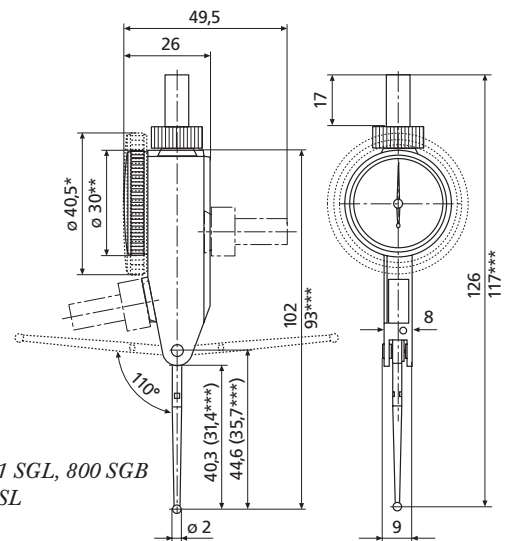
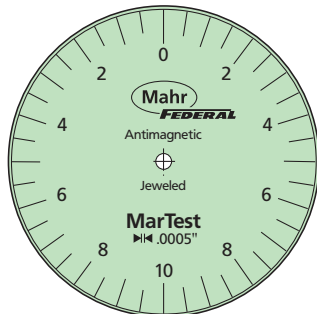
	Measuring range	Readings	Dial dia.	Measuring force	Length of styli	Order no.	Order no. with kit
800 SL	± 0.25 mm	0.01 mm	27.5 mm	0.07 N	41.24 mm	4306200	2015312
800 SGL	± 0.25 mm	0.01 mm	38 mm	0.07 N	41.24 mm	4306250	2015313
800 SGB	± 0.5 mm	0.01 mm	38 mm	0.07 N	32.3 mm	4301300	2015346
801 SL	± .010"	.0005"	1.1"	0.07 N	41.24 mm	4306950	2015319
801 SGL	± .010"	.0005"	1.5"	0.07 N	41.24 mm	4306960	2015320

Supplied with:
 Plastic storage case, spanner for changing the styli, styli dia. 2 mm, mounting shaft 800 a8 (for metric versions), mounting shaft 800 a6 (800 SGB), mounting shaft 800 a3/8 (for inch versions)

801 SL



801 SGL



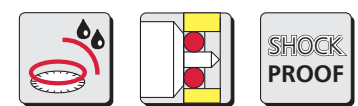
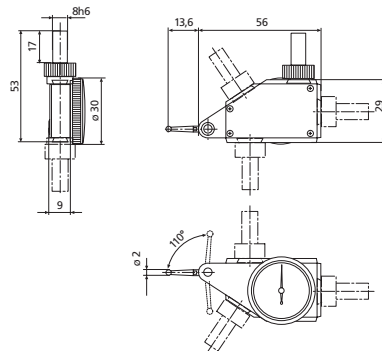
* 800 SGL, 801 SGL, 800 SGB
 ** 800 SL, 801 SL
 *** 800 SGB

MarTest styli can positioned horizontally to the dial face



DIN 2270

800 H



Technical Data

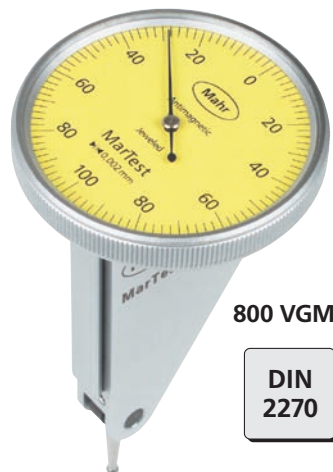
	Measuring range	Readings	Dial dia.	Measuring force	Length of styli	Order no.	Order no. with kit
800 H	± 0.4 mm	0.01 mm	27.5 mm	0.25 N	14.5 mm	4303200	2015328
801 H	± .015"	.0005"	1.1"	0.25 N	14.5 mm	4303950	2015324

Supplied with:
 Plastic storage case, spanner for changing the styli, styli dia. 2 mm, mounting shaft 800 a8 (for metric versions), mounting shaft 800 a3/8 (for inch versions)

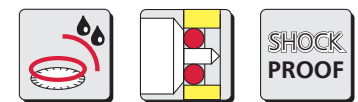
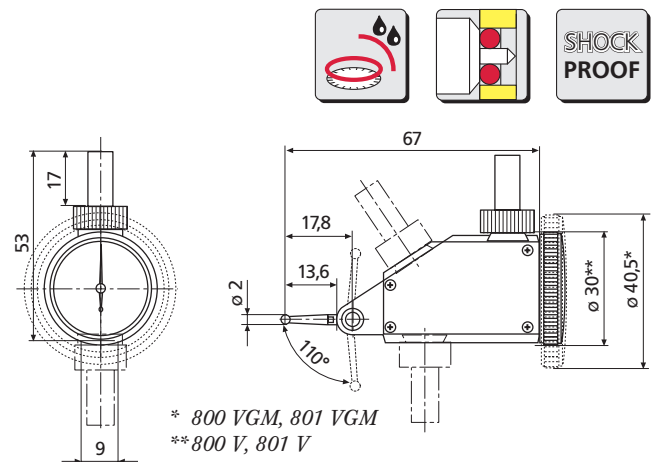
MarTest vertical model



800 V
DIN 2270



800 VGM
DIN 2270



* 800 VGM, 801 VGM
 ** 800 V, 801 V

Technical Data

	Measuring range	Readings	Dial dia.	Measuring force	Length of styli	Order no.	Order no. with kit
800 V	± 0.4 mm	0.01 mm	27.5 mm	0.2 N	14.5 mm	4302200	2015327
800 VGM	± 0.1 mm	0.002 mm	38 mm	0.25 N	14.5 mm	4302250	2015347
801 V	± .015"	.0005"	1.1"	0.2 N	14.5 mm	4302950	2015325
801 VGM	± .004"	.0001"	1.5"	0.25 N	14.5 mm	4302960	2015326

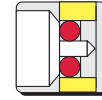
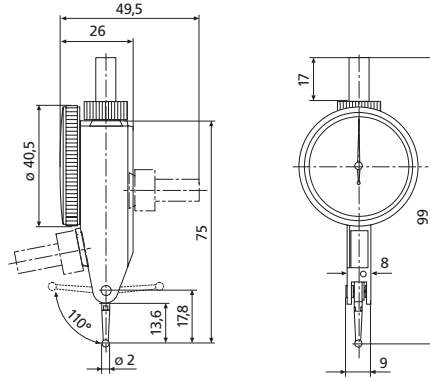
Supplied with:
 Plastic storage case, spanner for changing the styli, styli dia. 2 mm, mounting shaft 800 a8 (for metric versions), mounting shaft 800 a3/8 (for inch versions)

MarTest with larger measuring range



800 SRM

800 SR/SRM



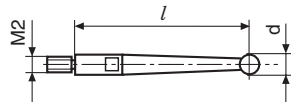
Technical Data

	Measuring range	Readings	Dial dia.	Measuring force	Length of styli	Order no.	Order no. with kit
800 SR	± 0.8 mm	0.01 mm	38 mm	0.15 N	14.5 mm	4307250	2015348
800 SRM	± 0.2 mm	0.002 mm	38 mm	0.15 N	14.5 mm	4308250	2015349
801 SR	± .030"	.0005"	1.5"	0.15 N	14.5 mm	4307960	2015350
801 SRM	± .008"	.0001"	1.5"	0.15 N	14.5 mm	4308980	2015351

Supplied with:
 Plastic storage case, spanner for changing the styli, styli dia. 2 mm, mounting shaft 800 a8 (for metric versions), mounting shaft 800 a3/8 (for inch versions)

MarTest - Accessories

Styluses with ruby contact point



Styluses with carbide contact point



Spanner for changing the styluses **4305868**

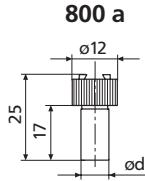


Model	Stylus-length <i>l</i>	Styluses			Ruby contact point									
		Carbide contact point	Styluses		Cat.-no.	dia. <i>d</i>								
		Cat.-no.	dia. 1 mm	dia. 2 mm	dia. 3 mm	dia. 2 mm								
800 S/801 S1/801 S 800 SG/801 SG 800 SA 800 SGA 800 SM/801 SM 800 SGM/801 SGM 801 SGE 800 SR/801 SR 800 SRM/801 SRM 800 H/801 H 800 V/801 V 800 VGM/801 VGM	14.5 mm	800 ts	4305870	4305850	4305871	800 tsr	4309051							
800 SGE								800 te	4308851	4308850	4308852	800 ter	4309050	
800 SL/801 SL 800 SGL/801 SGL								41.24 mm	800 tl	4306851	4306850	4306853	800 tlr	4309053
800 SGB														

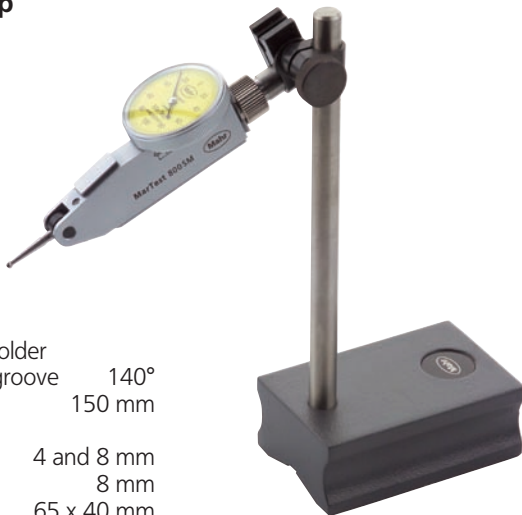
Martest - Accessories

Mounting shaft for dovetail

Mounting shaft	dia. d mm	Order no.
800 a8	8	4305865
800 a6	6	4301865
800 a4	4	4305885
800 a1/4	1/4"	4305895
800 a3/8	3/8"	4305875



Stand 801 p



- With swivel holder
- Base with V-groove 140°
- Total height 150 mm
- Mounting bore dia. 4 and 8 mm
- Column dia. 8 mm
- Base surface 65 x 40 mm

Order no. 4309090

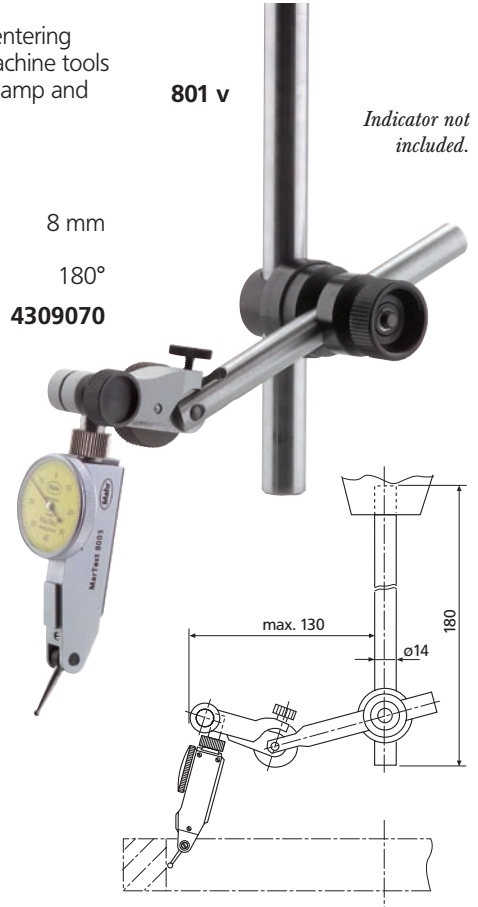
Indicator not included.

Centering support rods 801 v

- For aligning and centering work pieces on machine tools
- Swivel mounting clamp and fine adjustment
- Stainless steel rods

Mounting bore dia. 8 mm
Swivel range of mounting clamp 180°

Order no. 4309070



Indicator not included.

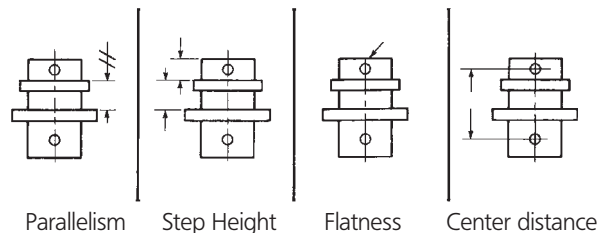
Leveling Table TE-20

Cuts set-up time 60% or more for many height gage measurements.

- The leveling table, TE-20, permits you to quickly bring the surface of a part into alignment with a surface plate in both planes. Completely eliminates shimming. Saves so much time that, used only occasionally, it will pay for itself in two weeks.
- The top plate is stress-relieved steel providing about 67 square inches of work area. It is drilled and tapped for fixtures. Fine pitch screws and large knobs assure precisely controlled adjustments. Works with any type of height gage.
- Operation is simple. Height gage readings are taken at edges of the surface to be aligned. Each plate, independently adjustable at right angles to the other, is angled as required for precise alignment.
Flatness = .025 mm / .001"



Typical checks which require careful positioning of work because rest surface is not sufficiently parallel to other work surfaces. Leveling Table compensates for error quickly, drastically reduces set-up time.



Adjustment	Top Plate	Bottom Plate
Total	± 1° 30'	± 1° 30'

Martest - Accessories

Test Stand 1492B

- Use with any MarTest Indicator - Support arms stepped at one end (.218in dia.) for Swivel Clamp (CP-2199).
- Accommodates Vertical and Horizontal lug back mounts for AGD type Indicators.
- Bases have powerful "ON/OFF" permanent magnets which hold from any of four faces - three sides or bottom.



Indicator not included.

Base Dimensions		Main Post		Support Arm		Order no.
W x L x H		Length	Diameter	Length	Diameter	
mm	(inch)	mm/inch	mm/inch	mm/inch	mm/inch	
60 x 48 x 59	(2.4" x 1.9" x 2.2")	178/ 7"	10/ .47"	165/ 6.5"	9.9/ .39"	1492B-5
60 x 48 x 59	(2.4" x 1.9" x 2.2")	178/ 7"	10/ .47"	149/ 5.9"	9.9/ .39"	1492B-10
114 x 48 x 59	(4.5" x 1.9" x 2.2")	401/ 15.8"	20/ .79"	200/ 7.9"	14/ .55"	1492B-15

Measurements are mm/inch. All models furnished with post clamp and indicator mounting clamp. Style 1492B-10 has fine adjustment on post clamp.

Transfer Stand 2300

- Fine adjustment conveniently located in base.
- Three-point base pads improve accuracy.
- Contoured shape facilitates movement.
- Use with any Testmaster Indicator - stud accommodates Swivel Clamp (CP-2199).
- EHE-2048 Gage head requires a CP-116 Clamp.



Indicator not included.

Base Dimensions		Column	Maximum vertical capacity	Reach	Mounting stud dia.	Order no.
W x L x H		(dia. x H)		(base to contact point)		
mm	(inch)	mm/inch	mm/inch	mm/inch	mm/inch	
76 x 110 x 45	(3 x 4.375 x 1.75")	25 x 430/ .995 x 17"	457/ 18"	approx. 86/ 3.375"	5.55/ .218"	2300