



THE BENCHMARK OF INDICATING MEASURING INSTRUMENTS. MARAMETER.

MaraMeter is the ideal measuring instrument for highly precise measurements of internal and external diameters on either an individual part or on serial components. Our indicating measuring instruments obtain the best results due to their constant measuring force, their exact transmission lever system, as well as their high parallelism on the measuring faces. For special measuring tasks such as threads, teeth, grooves or precision mechanical parts MaraMeter offers the right solution.



MaraMeter. Indicating Measuring Instruments

Indicating Measuring Instruments for Outside Dimensions, Indicating Snap Gages

MaraMeter 1000P / 300P 374
Indicating Snap Gage

**MaraMeter 840 F / 840 FC / 840 FH / 840 FG /
840 FM / 840 FS** 388
Indicating Snap Gage

MaraMeter 840 E 397
Indicating Snap Gage

MaraMeter 852 / 852 TS / 853 399
Indicating Snap Gage

Portable Thickness Gages

MaraMeter 22 P / 26 P / 838 A / 838 B / 838 AB / 57 B 409
With digital and/or analog display

Caliper Gages

MaraMeter 49 P / 838 TA / 838 EA / 838 TI / 838 EI 418
With digital and/or analog display

Depth Gages

MaraMeter 837 / 65 P-40 / 75 P-30 / 75 B-1 425

Indicating Measuring Instruments for Inside Dimensions

Dimentron Plug Inside Diameter Gages 436
Designed for high production ID gaging

MaraMeter 844 D 444
Indicating Plug Gage for rapid testing of serial components

MaraMeter 844 K 452
Self-centering Dial bore Gage

MaraMeter 1280 P Adjustable Bore Gages 459
Superior accuracy for production and inspection

MaraMeter 844 N / NH / NR / NB 462
Self-centering Dial Bore Gage

MaraMeter 844 Z 468
Dial Bore Gages for internal serrations

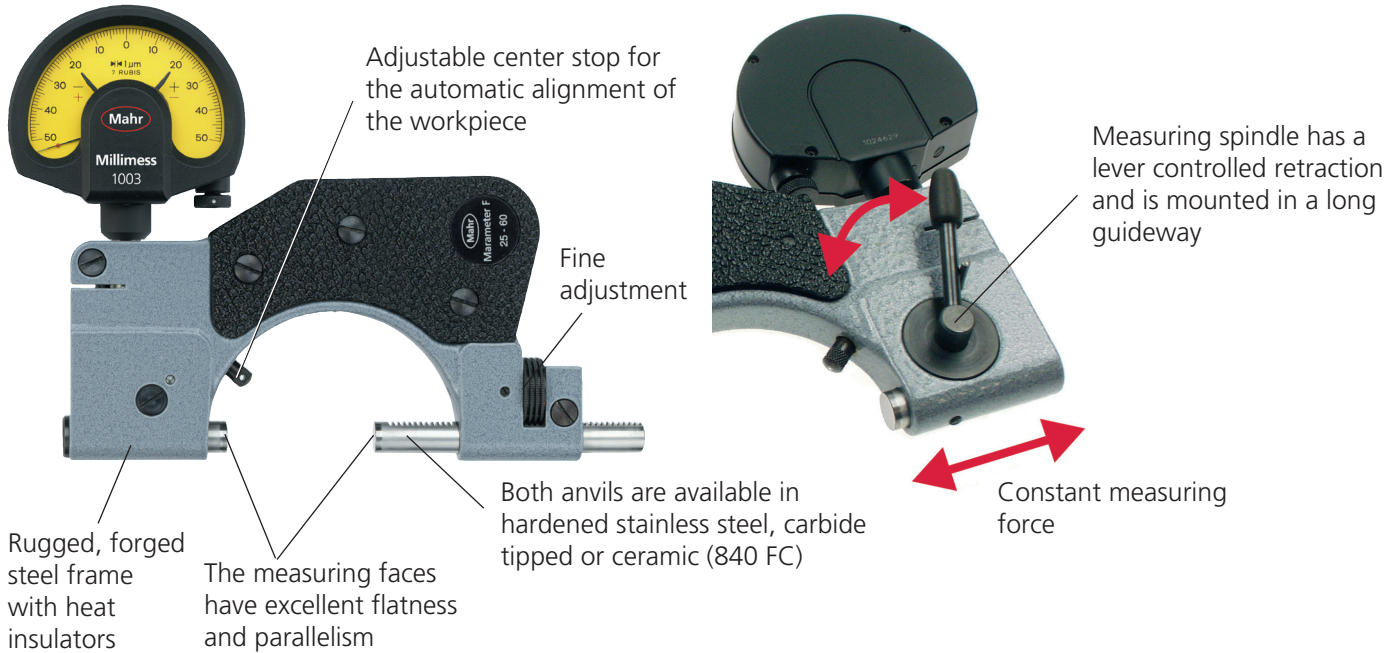


MaraMeter. Indicating Snap Gages

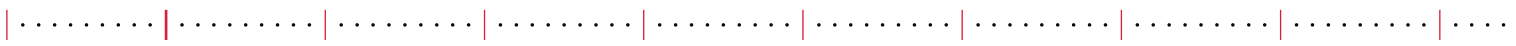
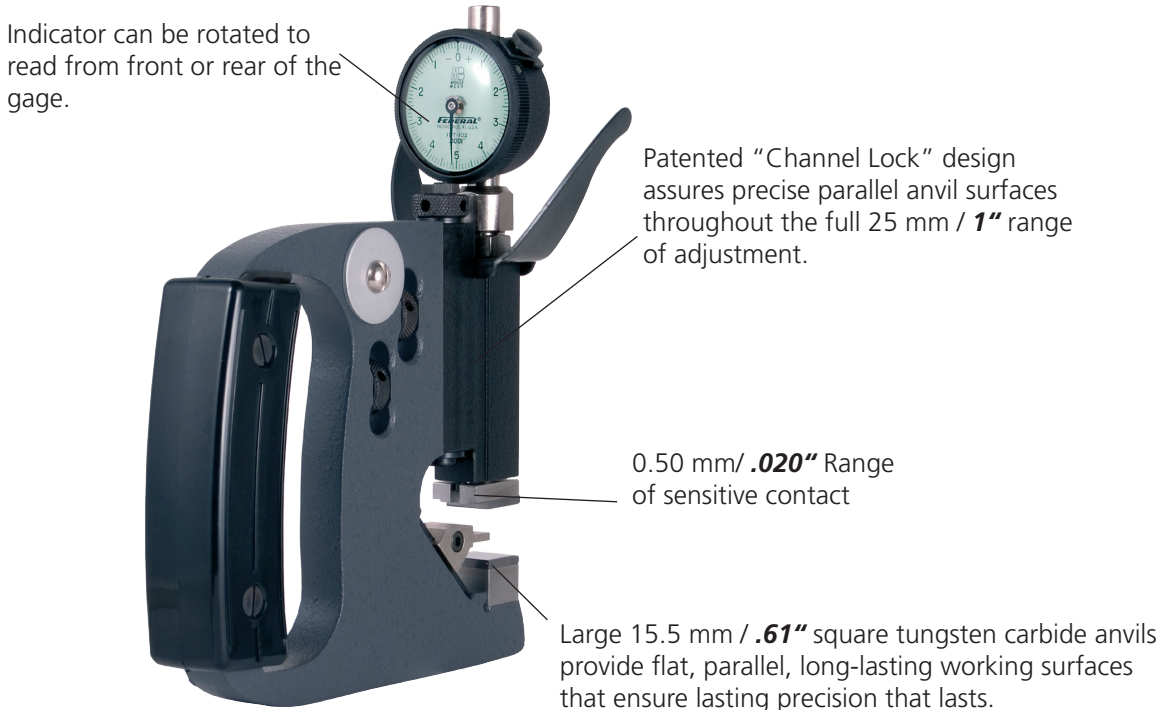
OVERVIEW

The Indicating Snap Gages **MaraMeter** 840 F / 300 P-1 are ideal for highly accurate and reliable results on cylindrical workpieces with a narrow tolerance.

MaraMeter 840 F



MaraMeter 300 P-1

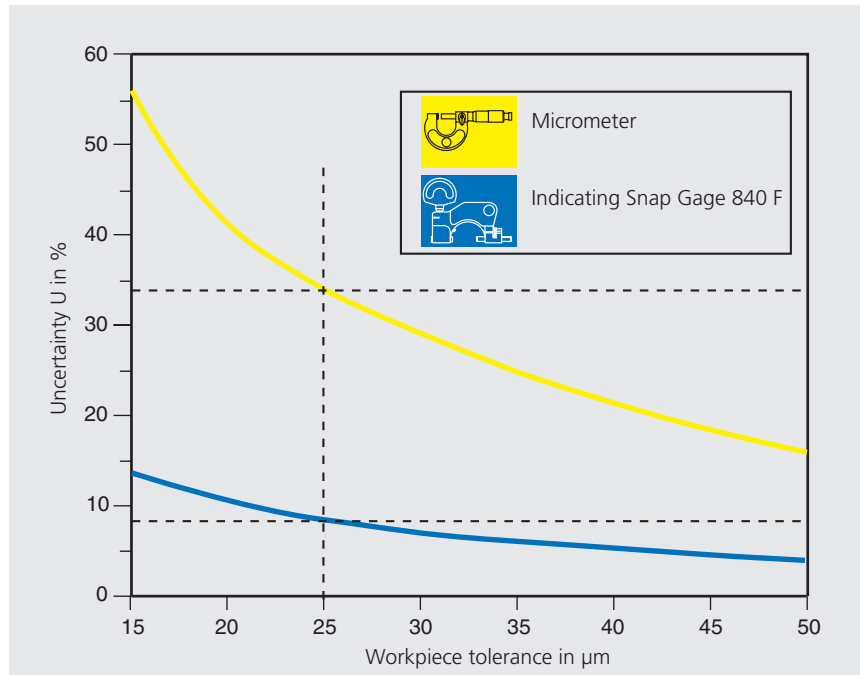




Advantages of the Snap Gage 840 F compared to a Micrometer

• Reduced Measuring Uncertainty

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



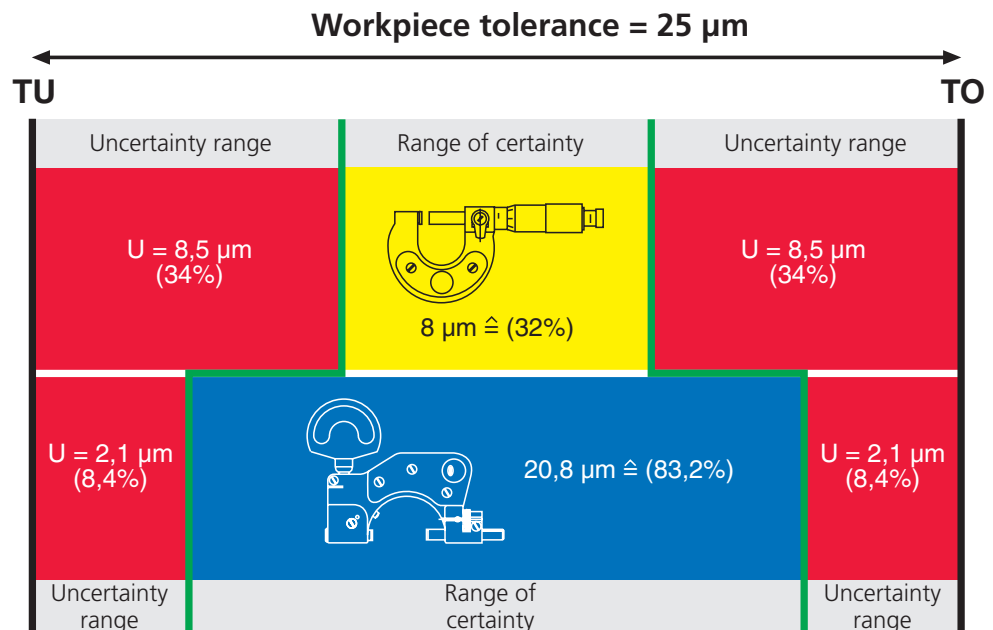
Measuring Uncertainty U is dependent upon the tolerance of the workpiece

• Better utilization of the tolerance zone

Example:
Workpiece 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 840 F, 83% (20.8 µm) of the workpiece 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 Gage MaraMeter 1000P



- Flat lower anvil (reference) adjustable over a broad range
- Radiused upper anvil (sensitive) spring loaded to counter balance the weight of the gage
- Indicator can be rotated to read from front or rear of the gage
- Anvils are tungsten carbide for long life
- **Scope of delivery:** Indicator, Insulating grip for ranges 44 –82 mm/ 1.75 –3.25" and above

Application:

The economical way to check outside diameters on the shop floor

Technical Data

Order no.	Product type	Measuring range	Graduation value	Probe path	Indicating instrument (included in delivery)
		inch	inch	inch	
2050007	1000P-1	0 –1"	.0005"	.020"	IDS-179 Indicator (B5M)
2050011	1000P-2	.75 –2"	.0005"	.020"	IDS-179 Indicator (B5M)
2050015	1000P-3	1.75 –3.25"	.0005"	.020"	IDS-179 Indicator (B5M)
2050017	1000P-4	3 –4.5"	.0005"	.020"	IDS-179 Indicator (B5M)
2050019	1000P-5	4 –6"	.0005"	.020"	IDS-179 Indicator (B5M)
2050021	1000P-6	6 –8"	.0005"	.020"	IDS-179 Indicator (B5M)
2050023	1000P-7	8 –10"	.0005"	.020"	IDS-179 Indicator (B5M)

Accessories

Order no.	Product name	Product type
2003150	Base/Bench Stand for 300P or 1000P style Snap Gage	BA-26



Indicating Snap Gage MaraMeter 1000P-M

- Flat lower anvil (reference) adjustable over a broad range
- Radiused upper anvil (sensitive) spring loaded to counter balance the weight of the gage
- Indicator can be rotated to read from front or rear of the gage
- Anvils are tungsten carbide for long life
- **Scope of delivery:** Indicator, Insulating grip for ranges 44 –82 mm/ 1.75 –3.25" and above



Application:

The economical way to check outside diameters on the shop floor

Technical Data

Order no.	Product type	Measuring range	Graduation value	Measuring surface ø	Probe path	Indicating instrument (included in package)
		mm	mm	mm	mm	
2050008	1000P-1M	0 –25	0.01	13	0.5	IDS-288 (O6I)
2050012	1000P-2M	19 –50	0.01	13	0.5	IDS-288 (O6I)
2050016	1000P-3M	44 –82	0.01	13	0.5	IDS-288 (O6I)
2050018	1000P-4M	76 –114	0.01	16	0.5	IDS-288 (O6I)
2050020	1000P-5M	102 –152	0.01	16	0.5	IDS-288 (O6I)
2050022	1000P-6M	152 –203	0.01	19	0.5	IDS-288 (O6I)
2050024	1000P-7M	203 –254	0.01	19	0.5	IDS-288 (O6I)

Accessories

Order no.	Product name	Product type
2003150	Base/Bench Stand for 300P or 1000P style Snap Gage	BA-26



Indicating Snap Gage MaraMeter EDI / EMD – 300P



Application:

- For rapid measurements of cylindrical parts such as shafts, bolts and spindles for thickness and length measurements

- Patented "Channel Lock" design assures precise parallel anvil surfaces throughout the full 25 mm / 1" range of adjustment.
- All Series 300P Snap Gages are fully adjustable with positive position locking at any point within the range.
- 0.50 mm / .020" movement of sensitive contact
- Snap Gages available over a wide range of sizes, styles, and readout configurations.
- Large 15.5 mm / .61" square tungsten carbide anvils provide flat, parallel working surfaces ensuring precision that lasts.
- Indicator can be rotated to read from front or rear of the gage.
- All adjustments accomplished using a single hex wrench (furnished).

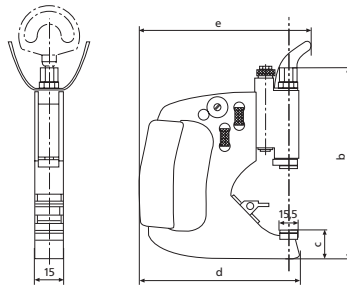
• **Scope of delivery:** Allen key

Technical Data

Type	EDI-300P-X	EDI-301P-X	EMD-300P-XD	EMD-301P-XD	
Lifting lever					
Indicator included	µMaxum II (2034201)	µMaxum II (2034201)	MaxµmIII (2033119)	MaxµmIII (2033119)	
Measuring range	Order no.	Order no.	Order no.	Order no.	
mm					
inch					
0 - 25,4	0 - 1"	2051658 (-1)	2051674 (-1)	2051730 (-1D)	2051806 (-1D)
25,4 - 50,8	1 - 2"	2051664 (-2)	2051680 (-2)	2051734 (-2D)	2051810 (-2D)
50,8 - 76,2	2 - 3"	2051666 (-3)	2051681 (-3)	2051758 (-3D)	2051834 (-3D)
76,2 - 101,6	3 - 4"	2051668 (-4)	2051687 (-4)	2051762 (-4D)	2051838 (-4D)
101,6 - 127	4 - 5"	2051669 (-5)	2051688 (-5)	2051766 (-5D)	2051842 (-5D)
127 - 152,4	5 - 6"	2051670 (-6)	2051689 (-6)	2051770 (-6D)	2051846 (-6D)
152,4 - 177,8	6 - 7"	2051671 (-7)	2051690 (-7)	2051774 (-7D)	2051850 (-7D)
177,8 - 203,2	7 - 8"	2051672 (-8)	2051691 (-8)	2051778 (-8D)	2051854 (-8D)
203,2 - 228,6	8 - 9"	2051673 (-9)	2051692 (-9)	2051782 (-9D)	2051858 (-9D)
228,6 - 254	9 - 10"	2051659 (-10)	2051675 (-10)	2051711 (-10D)	2051787 (-10D)
254 - 279,4	10 - 11"	2051660 (-11)	2051676 (-11)	2051715 (-11D)	2051791 (-11D)
279,4 - 304,8	11 - 12"	2051661 (-12)	2051677 (-12)	2051719 (-12D)	2051795 (-12D)
304,8 - 330,2	12 - 13"	2051662 (-13)	2051678 (-13)	2051723 (-13D)	2051799 (-13D)
330,2 - 355,6	13 - 14"	2063714 (-14)	2051679 (-14)	2051727 (-14D)	2051803 (-14D)
355,6 - 381	14 - 15"	2063715 (-15)	2063840 (-15)	2064215 (-15D)	2063846 (-15D)
381 - 406,4	15 - 16"	2063716 (-16)	2063841 (-16)	2064216 (-16D)	2063847 (-16D)
406,4 - 431,8	16 - 17"	2063717 (-17)	2063842 (-17)	2064217 (-17D)	2063848 (-17D)
431,8 - 457,2	17 - 18"	2063718 (-18)	2063843 (-18)	2064218 (-18D)	2063849 (-18D)
457,2 - 482,6	18 - 19"	2063719 (-19)	2063844 (-19)	2064219 (-19D)	2063850 (-19D)
482,6 - 508	19 - 20"	2063720 (-20)	2063845 (-20)	2064220 (-20D)	2063851 (-20D)
Resolution	mm	0,0002/0,0005/0,001/0,005/0,01/0,02		0,0005/0,001/0,005	
	inch	.00001"/.00002"/.00005"/.0001"/.0001"/.0002"/.0005"/.001"		.00002"/.00005"/.0001"/.0005"	
Graduation	mm			0,001/0,005/0,01	
	inch			.0001"/.0005"/.001"	
Mounting shaft	inch	3/8"		3/8"	
Size of measuring surface	mm	15,5 x 15,5		15,5 x 15,5	
	inch	.61" x .61"		.61" x .61"	
Distance of movable anvil	mm	0,5		0,5	
	inch	.02"		.02"	
Parallelism deviation	µm	4		4	
	inch	.00016"		.00016"	
Measuring force	N	18		18	



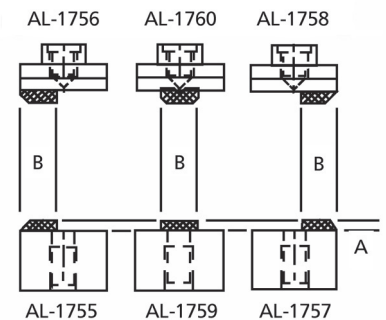
Measuring range		a	a	b	b	c	c	d	d	e	e
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
25,4 - 50,8	1 - 2"	25.4	1"	150	6"	29	1.16"	145	5.8"	158	6.3"
50,8 - 76,2	2 - 3"	50.8	2"	175	7"	29	1.16"	141	5.6"	154	6.16"
76,2 - 101,6	3 - 4"	76.2	3"	200	8"	29	1.16"	155	6.2"	167	6.7"
101,6 - 127	4 - 5"	101.6	4"	226	9"	29	1.16"	167	6.7"	180	7.2"
127 - 152,4	5 - 6"	127	5"	251	10"	29	1.16"	180	7.2"	193	7.7"
152,4 - 177,8	6 - 7"	152.4	6"	278	11"	30	1.2"	203	8"	215	8.6"
177,8 - 203,2	7 - 8"	177.8	7"	303	12"	30	1.2"	213	8.5"	226	9"
203,2 - 228,6	8 - 9"	203.2	8"	329	13"	30	1.2"	231	9.2"	244	9.7"
228,6 - 254	9 - 10"	228.6	9"	335	13.5"	30	1.2"	248	9.9"	261	10.4"
254 - 279,4	10 - 11"	254	10"	419	16.5"	38.1	1.5"	284	11.2"	297	11.7"
279,4 - 304,8	11 - 12"	279.4	11"	444	17.5"	38.1	1.5"	304	12.0"	317	12.5"
304,8 - 330,2	12 - 13"	304.8	12"	469	18.5"	38.1	1.5"	317	12.5"	330	13.0"
330,2 - 355,6	13 - 14"	330.2	13"	495	19.5"	38.1	1.5"	332	13.1"	345	13.6"
355,6 - 381	14 - 15"	355.6	14"	502	20.5"	38.1	1.5"	358	14.1"	368.3	14.5"
381 - 406,4	15 - 16"	381	15"	546	21.5"	38.1	1.5"	335	13.2"	345	13.6"
406,4 - 431,8	16 - 17"	406.4	16"	571	22.5"	38.1	1.5"	335	13.2"	345	13.6"
431,8 - 457,2	17 - 18"	431.8	17"	604	23.8"	50.8	2.0"	365	14.4"	375	14.8"
457,2 - 482,6	18 - 19"	457.2	18"	662	26.1"	83.8	3.3"	381	15.0"	381	15.0"
482,6 - 508	19 - 20"	482.6	19"	683	26.9"	78.4	3.1"	363	14.3"	368	14.5"



Accessories

Order no.	Product name	Product type
2003150	Base/Bench Stand for 300P or 1000P style Snap Gage	BA-26
2204644	Bench stand for AGD style 3 disc masters up to 127mm / 5"	BA-71
2232441	Heavier force spring for EMD-30XP	SP-118
2232478	Lighter force spring for EMD-30XP	SP-192
2202272	Plain anvil (lower), left (option)	AL-1755
2202273	Plain anvil (upper), left (option)	AL-1756
2202274	Plain anvil (lower), right (option)	AL-1757
2202275	Plain anvil (lower), right (option)	AL-1758
2202276	Plain anvil (lower), middle (option)	AL-1759
2202277	Plain anvil (lower), middle (option)	AL-1760
2243295	Lighter force spring for EMD-30XP	
2243297	Heavier force spring for EMD-30XP	

Plain Anvil Options Front View



A = 2mm/.080in
B = 6.35mm/.250in

Indicating Snap Gage MaraMeter M – 300P / 301P, 300P – xM / 301P – xM



Application:

- For rapid measurements of cylindrical parts such as shafts, bolts and spindles for thickness and length measurements

- Patented “Channel Lock” design assures precise parallel anvil surfaces throughout the full 25 mm / 1” range of adjustment.
- All Series 300P Snap Gages are fully adjustable with positive position locking at any point within the range.
- 0.50 mm / .020” Movement of sensitive contact.
- Snap Gages available over a wide range of sizes, styles, and readout configurations.
- Large 15.5 mm / .61” square tungsten carbide anvils provide flat, parallel, working surfaces ensuring precision.
- Indicator can be rotated to read from front or rear of the gage.
- All adjustments accomplished using a single hex wrench (furnished).

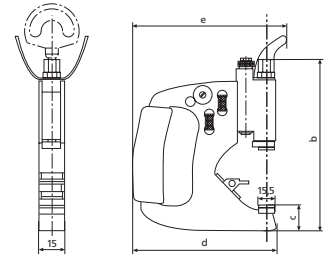
• **Scope of delivery:** Allen key

Technical Data

Type	M-300P-x		300P-xM		M-301P-x		301P-xM	
Lifting lever					x		x	
Indicator included	None		x		None		x	
Measuring range	Order no.	Order no.	indicator	Order no.	Order no.	indicator		
mm								
0 - 25,4	2003100 (-1)	2050496 (-1M)	IDS-206 (O1I)	2003110 (-1)	2050496 (-1M)	IDS-206 (O1I)		
25,4 - 50,8	2003101 (-2)	2050498 (-2M)	IDS-206 (O1I)	2003111 (-2)	2050498 (-2M)	IDS-206 (O1I)		
50,8 - 76,2	2003102 (-3)	2050510 (-3M)	IDS-206 (O1I)	2003112 (-3)	2050510 (-3M)	IDS-206 (O1I)		
76,2 - 101,6	2003103 (-4)	2050513 (-4M)	IDS-206 (O1I)	2003113 (-4)	2050513 (-4M)	IDS-206 (O1I)		
101,6 - 127	2003104 (-5)	2050515 (-5M)	IDS-206 (O1I)	2003114 (-5)	2050515 (-5M)	IDS-206 (O1I)		
127 - 152,4	2003105 (-6)	2050517 (-6M)	IDS-208 (P1I)	2003115 (-6)	2050517 (-6M)	IDS-208 (P1I)		
152,4 - 177,8	2003106 (-7)	2050526 (-7M)	IDS-208 (P1I)	2003116 (-7)	2050526 (-7M)	IDS-208 (P1I)		
177,8 - 203,2	2003107 (-8)	2050528 (-8M)	IDS-208 (P1I)	2003117 (-8)	2050528 (-8M)	IDS-208 (P1I)		
203,2 - 228,6	2003108 (-9)	2050530 (-9M)	IDS-208 (P1I)	2003118 (-9)	2050530 (-9M)	IDS-208 (P1I)		
228,6 - 254	2063910 (-10)	2050487 (-10M)	IDS-208 (P1I)	2064110 (-10)	2050487 (-10M)	IDS-208 (P1I)		
254 - 279,4	2063911 (-11)	2050489 (-11M)	IDS-208 (P1I)	2064111 (-11)	2050489 (-11M)	IDS-208 (P1I)		
279,4 - 304,8	2063912 (-12)	2050491 (-12M)	IDS-208 (P1I)	2064112 (-12)	2050491 (-12M)	IDS-208 (P1I)		
304,8 - 330,2	2063913 (-13)	2050493 (-13M)	IDS-208 (P1I)	2064113 (-13)	2050493 (-13M)	IDS-208 (P1I)		
330,2 - 355,6	2063914 (-14)	2050495 (-14M)	IDS-208 (P1I)	2064114 (-14)	2050495 (-14M)	IDS-208 (P1I)		
355,6 - 381	2063915 (-15)	2063824 (-15M)	IDS-208 (P1I)	2064115 (-15)	2063830 (-15M)	IDS-208 (P1I)		
381 - 406,4	2063916 (-16)	2063825 (-16M)	IDS-208 (P1I)	2064116 (-16)	2063831 (-16M)	IDS-208 (P1I)		
406,4 - 431,8	2063917 (-17)	2063826 (-17M)	IDS-208 (P1I)	2064117 (-17)	2063832 (-17M)	IDS-208 (P1I)		
431,8 - 457,2	2063918 (-18)	2063827 (-18M)	IDS-208 (P1I)	2064118 (-18)	2063833 (-18M)	IDS-208 (P1I)		
457,2 - 482,6	2063919 (-19)	2063828 (-19M)	IDS-208 (P1I)	2064119 (-19)	2063834 (-19M)	IDS-208 (P1I)		
482,6 - 508	2063920 (-20)	2063829 (-20M)	IDS-208 (P1I)	2064120 (-20)	2063835 (-20M)	IDS-208 (P1I)		
Graduation	mm		0,002			0,002		
Mounting shaft	mm	8		8				
Mounting shaft	inch		3/8"			3/8"		
Size of measuring surface	mm	15,5 x 15,5	15,5 x 15,5	15,5 x 15,5		15,5 x 15,5		
Distance of movable anvil	mm	0,5	0,5	0,5		0,5		
Parallelism deviation	µm	4	4	4		4		
Measuring force	N	18	18	18		18		



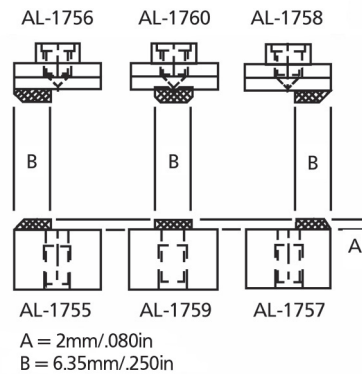
Measuring range	a	b	c	d	e
mm	mm	mm	mm	mm	mm
25,4 - 50,8	25.4	150	29	145	158
50,8 - 76,2	50.8	175	29	141	154
76,2 - 101,6	76.2	200	29	155	167
101,6 - 127	101.6	226	29	167	180
127 - 152,4	127	251	29	180	193
152,4 - 177,8	152.4	278	30	203	215
177,8 - 203,2	177.8	303	30	213	226
203,2 - 228,6	203.2	329	30	231	244
228,6 - 254	228.6	335	30	248	261
254 - 279,4	254	419	38.1	284	297
279,4 - 304,8	279.4	444	38.1	304	317
304,8 - 330,2	304.8	469	38.1	317	330
330,2 - 355,6	330.2	495	38.1	332	345
355,6 - 381	355.6	502	38.1	358	368.3
381 - 406,4	381	546	38.1	335	345
406,4 - 431,8	406.4	571	38.1	335	345
431,8 - 457,2	431.8	604	50.8	365	375
457,2 - 482,6	457.2	662	83.8	381	381
482,6 - 508	482.6	683	78.4	363	368



Accessories

Order no.	Product name	Product type
2003150	Base/Bench Stand for 300P or 1000P style Snap Gage	BA-26
2204644	Bench stand for AGD style 3 disc masters up to 127mm / 5"	BA-71
2232441	Heavier force spring for M-300P & 300P-xM	SP-118
2232478	Lighter force spring for M-300P & 300P-xM	SP-192
2202272	Plain anvil (lower), left (option)	AL-1755
2202273	Plain anvil (upper), left (option)	AL-1756
2202274	Plain anvil (lower), right (option)	AL-1757
2202275	Plain anvil (lower), right (option)	AL-1758
2202276	Plain anvil (lower), middle (option)	AL-1759
2202277	Plain anvil (lower), middle (option)	AL-1760

Plain Anvil Options
Front View





Indicating Snap Gage MaraMeter OMI – 300P / – 301P, 300P / 301P



Application:

- For rapid measurements of cylindrical parts such as shafts, bolts and spindles for thickness and length measurements

- Patented “Channel Lock” design assures precise parallel anvil surfaces throughout the full 25 mm / 1” range of adjustment.
- All Series 300P Snap Gages are fully adjustable with positive position locking at any point within the range.
- 0.50 mm / .020” Movement of sensitive contact.
- Snap Gages available over a wide range of sizes, styles, and readout configurations.
- Large 15.5 mm / .61” square tungsten carbide anvils provide flat, parallel, working surfaces that ensure lasting precision that lasts.
- Indicator can be rotated to read from front or rear of the gage.
- All adjustments accomplished using a single hex wrench (furnished).

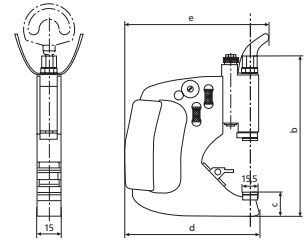
• **Scope of delivery:** Allen key

Technical Data

Type	OMI-300P-x		300P-x		OMI-301P-x		301P-x	
Lifting lever					x		x	
Indicator included	None		x		None		x	
Measuring range	Order no.	Order no.	indicator	Order no.	Order no.	indicator	Order no.	indicator
inch								
0 - 1"	2054281 (-1)	2050485 (-1)	IDT-102 (12)	2054300 (-1)	2050562 (-1)	IDT-102 (12)		
1 - 2"	2054287 (-2)	2050497 (-2)	IDT-102 (12)	2054306 (-2)	2050574 (-2)	IDT-102 (12)		
2 - 3"	2054288 (-3)	2050499 (-3)	IDT-102 (12)	2054307 (-3)	2050576 (-3)	IDT-102 (12)		
3 - 4"	2054294 (-4)	2050511 (-4)	IDT-102 (12)	2054313 (-4)	2050588 (-4)	IDT-102 (12)		
4 - 5"	2054295 (-5)	2050514 (-5)	IDT-102 (12)	2054314 (-5)	2050590 (-5)	IDT-102 (12)		
5 - 6"	2054296 (-6)	2050516 (-6)	IDT-106 (22)	2054315 (-6)	2050592 (-6)	IDT-106 (22)		
6 - 7"	2054297 (-7)	2050518 (-7)	IDT-106 (22)	2054316 (-7)	2050594 (-7)	IDT-106 (22)		
7 - 8"	2054298 (-8)	2050527 (-8)	IDT-106 (22)	2054317 (-8)	2050596 (-8)	IDT-106 (22)		
8 - 9"	2054299 (-9)	2050529 (-9)	IDT-106 (22)	2054318 (-9)	2050598 (-9)	IDT-106 (22)		
9 - 10"	2054282 (-10)	2050486 (-10)	IDT-106 (22)	2054301 (-10)	2050563 (-10)	IDT-106 (22)		
10 - 11"	2054283 (-11)	2050488 (-11)	IDT-106 (22)	2054302 (-11)	2050565 (-11)	IDT-106 (22)		
11 - 12"	2054284 (-12)	2050490 (-12)	IDT-106 (22)	2054303 (-12)	2050567 (-12)	IDT-106 (22)		
12 - 13"	2054285 (-13)	2050492 (-13)	IDT-106 (22)	2054304 (-13)	2050569 (-13)	IDT-106 (22)		
13 - 14"	2054286 (-14)	2050494 (-14)	IDT-106 (22)	2054305 (-14)	2050571 (-14)	IDT-106 (22)		
14 - 15"	2063315 (-15)	2063515 (-15)	IDT-106 (22)	2063415 (-15)	2063615 (-15)	IDT-106 (22)		
15 - 16"	2063316 (-16)	2063516 (-16)	IDT-106 (22)	2063416 (-16)	2063616 (-16)	IDT-106 (22)		
16 - 17"	2063317 (-17)	2063517 (-17)	IDT-106 (22)	2063417 (-17)	2063617 (-17)	IDT-106 (22)		
17 - 18"	2063318 (-18)	2063518 (-18)	IDT-106 (22)	2063418 (-18)	2063618 (-18)	IDT-106 (22)		
18 - 19"	2063319 (-19)	2063519 (-19)	IDT-106 (22)	2063419 (-19)	2063619 (-19)	IDT-106 (22)		
19 - 20"	2063320 (-20)	2063520 (-20)	IDT-106 (22)	2063420 (-20)	2063620 (-20)	IDT-106 (22)		
Graduation	inch	.0001"				.0001"		
Mounting shaft	inch	3/8"		3/8"		3/8"		3/8"
Size of measuring surface	inch	.61" x .61"		.61" x .61"		.61" x .61"		.61" x .61"
Distance of movable anvil	inch	.02"		.02"		.02"		.02"
Parallelism deviation	inch	.00016"		.00016"		.00016"		.00016"
Measuring force	N	18		18		18		18



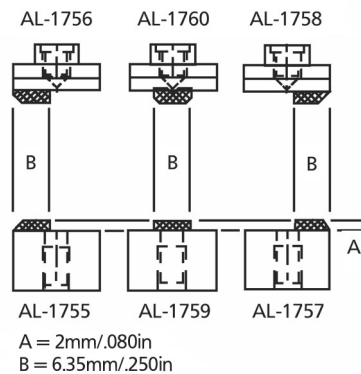
Measuring range	a	b	c	d	e
inch	mm	mm	mm	mm	mm
1 - 2"	25.4	150	29	145	158
2 - 3"	50.8	175	29	141	154
3 - 4"	76.2	200	29	155	167
4 - 5"	101.6	226	29	167	180
5 - 6"	127	251	29	180	193
6 - 7"	152.4	278	30	203	215
7 - 8"	177.8	303	30	213	226
8 - 9"	203.2	329	30	231	244
9 - 10"	228.6	335	30	248	261
10 - 11"	254	419	38.1	284	297
11 - 12"	279.4	444	38.1	304	317
12 - 13"	304.8	469	38.1	317	330
13 - 14"	330.2	495	38.1	332	345
14 - 15"	355.6	502	38.1	358	368.3
15 - 16"	381	546	38.1	335	345
16 - 17"	406.4	571	38.1	335	345
17 - 18"	431.8	604	50.8	365	375
18 - 19"	457.2	662	83.8	381	381
19 - 20"	482.6	683	78.4	363	368



Accessories

Order no.	Product name	Product type
2003150	Base/Bench Stand for 300P or 1000P style Snap Gage	BA-26
2204644	Bench stand for AGD style 3 disc masters up to 127mm / 5"	BA-71
2232441	Heavier force spring for OMI-300P &300P	SP-118
2232478	Lighter force spring for OMI-300P &300P	SP-192
2202272	Plain anvil (lower), left (option)	AL-1755
2202273	Plain anvil (upper), left (option)	AL-1756
2202274	Plain anvil (lower), right (option)	AL-1757
2202275	Plain anvil (lower), right (option)	AL-1758
2202276	Plain anvil (lower), middle (option)	AL-1759
2202277	Plain anvil (lower), middle (option)	AL-1760

Plain Anvil Options
Front View





Application:

- For rapid measurements of groove diameters

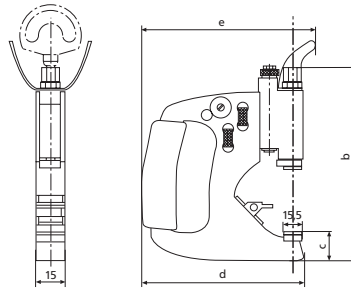
- Patented “Channel Lock” design assures precise parallel anvil surfaces throughout the full 25 mm / 1” range of adjustment.
- All Series 300P Snap Gages are fully adjustable with positive position locking at any point within the range.
- 0.50 mm / .020” Movement of sensitive contact.
- Snap Gages available over a wide range of sizes, styles, and readout configurations.
- Hardened Steel blade anvils AL-110 with 2,13 mm / .08”
- Indicator can be rotated to read from front or rear of the gage.
- All adjustments accomplished using a single hex wrench (furnished).
- **Scope of delivery:** Allen key

Technical Data

Type		EDI-300P-3x	EMD-300P-3x
Indicator included		µMaxum II (2034201)	MaxumIII (2033119)
Measuring range		Order no.	Order no.
mm	inch		
0 - 25,4	0 - 1"	2051667 (EDI-300P-31)	2051739 (EMD-300P-31)
25,4 - 50,8	1 - 2"	2063732 (EDI-300P-32)	2051743 (EMD-300P-32)
50,8 - 76,2	2 - 3"	2063733 (EDI-300P-33)	2051747 (EMD-300P-33)
76,2 - 101,6	3 - 4"	2063734 (EDI-300P-34)	2051751 (EMD-300P-34)
101,6 - 127	4 - 5"	2063735 (EDI-300P-35)	2051755 (EMD-300P-35)
127 - 152,4	5 - 6"	2063736 (EDI-300P-36)	2063836 (EMD-300P-36)
152,4 - 177,8	6 - 7"	2063737 (EDI-300P-37)	2063837 (EMD-300P-37)
177,8 - 203,2	7 - 8"	2063738 (EDI-300P-38)	2063838 (EMD-300P-38)
203,2 - 228,6	8 - 9"	2063739 (EDI-300P-39)	2063839 (EMD-300P-39)
	Resolution	mm	0,0002/0,0005/0,001/0,005/0,01/0,02
	Resolution	inch	.00001"/.00002"/.00005"/.0001"/.0002"/.0005"/.001"
	Graduation	mm	0,001/0,005/0,01
	Graduation	inch	.0001"/.0005"/.001"
	Mounting shaft	inch	3/8"
	Size of measuring surface	mm	2,13
	Size of measuring surface	inch	.08"
	Distance of movable anvil	mm	0,5
	Distance of movable anvil	inch	.02"
	Parallelism deviation	µm	4
	Parallelism deviation	inch	.00016"
	Measuring force	N	18

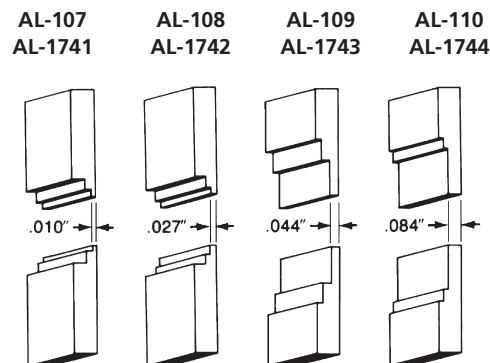


Measuring range		a	b	c	d	e
mm	inch	mm	mm	mm	mm	mm
0 - 25,4	0 - 1"	25.4	150	29	145	158
25,4 - 50,8	1 - 2"	50.8	175	29	141	154
50,8 - 76,2	2 - 3"	76.2	200	29	155	167
76,2 - 101,6	3 - 4"	101.6	226	29	167	180
101,6 - 127	4 - 5"	127	251	29	180	193
127 - 152,4	5 - 6"	152.4	278	30	203	215
152,4 - 177,8	6 - 7"	177.8	303	30	213	226
177,8 - 203,2	7 - 8"	203.2	329	30	231	244
203,2 - 228,6	8 - 9"	228.6	335	30	248	261



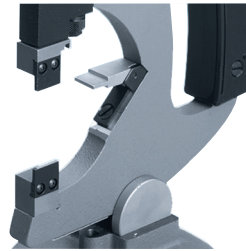
Accessories

Order no.	Product name	Product type
2003150	Base/Bench Stand for 300P or 1000P style Snap Gage	BA-26
2204644	Bench stand for AGD style 3 disc masters up to 127mm / 5"	BA-71
2232478	Lighter force spring for EMD-30XP	SP-192
2232441	Heavier force spring for EMD-30XP	SP-118
2243295	Lighter force spring for EDI-30XP	2243295
2243297	Heavier force spring for EDI-30XP	2243297
2202239	Blade anvils, steel, width 0,25mm/.010", depth 0,76mm/.030" (option)	AL-107
2202240	Balde anvils, steel, width 0,69mm/.027", depth 1,02mm/.040" (option)	AL-108
2202241	Blade anvils, steel, width 1,12mm/.044", depth 5,08mm/.20" (option)	AL-109
2202242	Blade anvils, steel, width 2,13mm/.084", depth 6,35mm/.25" (standard)	AL-110
2202266	Blade anvils, carbide, width 0,25mm/.010", depth 0,76mm/.030" (option)	AL-1741
2202267	Blade anvils, carbide, width 0,69mm/.027", depth 0,76mm/.040" (option)	AL-1742
2202268	Blade anvils, carbide, width 1,12mm/.044", depth 5,08mm/.20" (option)	AL-1743
2202269	Blade anvils, carbide, width 2,13mm/.084", depth 6,35mm/.25" (option)	AL-1744





Indicating Snap Gage MaraMeter M 300P – 3x / M 301P – 3x



Application:

- For rapid measurements of cylindrical parts such as shafts, bolts and spindles for thickness and length measurements

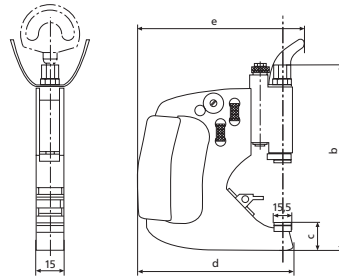
- Patented “Channel Lock” design assures precise parallel anvil surfaces throughout the full 25 mm / 1” range of adjustment.
- All Series 300P Snap Gages are fully adjustable with positive position locking at any point within the range.
- 0.50 mm / .020” Movement of sensitive contact.
- Snap Gages available over a wide range of sizes, styles, and readout configurations.
- Hardened Steel blade anvils AL-110 with 2,13 mm / .08”
- Indicator can be rotated to read from front or rear of the gage.
- All adjustments accomplished using a single hex wrench (furnished).
- **Scope of delivery:** Allen key (package excludes indicator)

Technical Data

Type		M 300P-3x		M 301P-3x	
Lifting lever				x	
Measuring range		Order no.		Order no.	
mm					
0 - 25,4		2063931	(- 31)	2064131	(- 31)
25,4 - 50,8		2063932	(- 32)	2064132	(- 32)
50,8 - 76,2		2063933	(- 33)	2064133	(- 33)
76,2 - 101,6		2063934	(- 34)	2064134	(- 34)
101,6 - 127		2063935	(- 35)	2064135	(- 35)
127 - 152,4		2063936	(- 36)	2064136	(- 36)
152,4 - 177,8		2063937	(- 37)	2064137	(- 37)
177,8 - 203,2		2063938	(- 38)	2064138	(- 38)
203,2 - 228,6		2063939	(- 39)	2064139	(- 39)
Mounting shaft	mm	8		8	
Size of measuring surface	mm	2,13 x 15,5		2,13 x 15,5	
Distance of movable anvil	mm	0,5		0,5	
Measuring force	N	18		18	

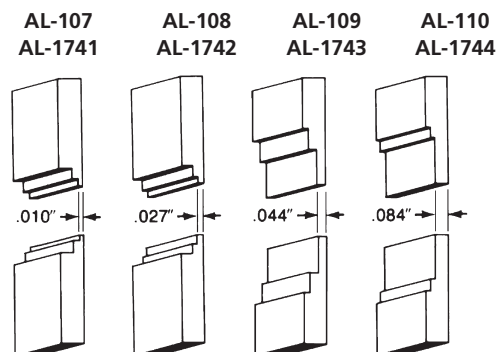


Order no.	a	b	c	d	e
	mm	mm	mm	mm	mm
2050485	25.4	150	29	145	158
2050497	50.8	175	29	141	154
2050499	76.2	200	29	155	167
2050511	101.6	226	29	167	180
2050514	127	251	29	180	193
2050516	152.4	278	30	203	215
2050518	177.8	303	30	213	226
2050527	203.2	329	30	231	244



Accessories

Order no.	Product name	Product type
2003150	Base/Bench Stand for 300P or 1000P style Snap Gage	BA-26
2204644	Bench stand for AGD style 3 disc masters up to 127mm / 5"	BA-71
2232478	Lighter force spring for M-300P & M-301P	SP-192
2232441	Heavier force spring for M-300P & M-301P	SP-118
4333000	Millimess 5 μm , $\pm 130 \mu\text{m}$	1004
4334000	Millimess 1 μm , $\pm 50 \mu\text{m}$	1003
4334001	Millimess 2 μm , $\pm 130 \mu\text{m}$	1003 XL
4335000	Millimess 0.5 μm , $\pm 25 \mu\text{m}$	1002
4337620	Digital Indicator, 0.0005 mm, 12.5 mm	1086 R
4337624	Digital Indicator, 0.0005 mm, 12.5 mm	1086 Ri
2202239	Blade anvils, steel, width 0,25mm/.010", depth 0,76mm/.030" (option)	AL-107
2202240	Balde anvils, steel, width 0,69mm/.027", depth 1,02mm/.040" (option)	AL-108
2202241	Blade anvils, steel, width 1,12mm/.044", depth 5,08mm/.20" (option)	AL-109
2202242	Blade anvils, steel, width 2,13mm/.084", depth 6,35mm/.25" (standard)	AL-110
2202266	Blade anvils, carbide, width 0,25mm/.010", depth 0,76mm/.030" (option)	AL-1741
2202267	Blade anvils, carbide, width 0,69mm/.027", depth 0,76mm/.040" (option)	AL-1742
2202268	Blade anvils, carbide, width 1,12mm/.044", depth 5,08mm/.20" (option)	AL-1743
2202269	Blade anvils, carbide, width 2,13mm/.084", depth 6,35mm/.25" (option)	AL-1744





Application:

- For rapid measurements of cylindrical parts such as shafts, bolts and spindles for thickness and length measurements

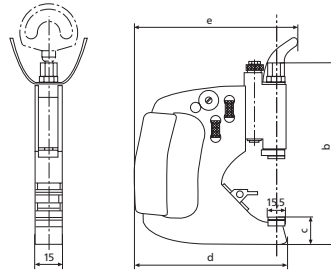
- Patented "Channel Lock" design assures precise parallel anvil surfaces throughout the full 25 mm / 1" range of adjustment.
- All Series 300P Snap Gages are fully adjustable with positive position locking at any point within the range.
- 0.50 mm / .020" Movement of sensitive contact.
- Snap Gages available over a wide range of sizes, styles, and readout configurations.
- Hardened Steel blade anvils AL-110 with 2,13 mm / .08"
- Indicator can be rotated to read from front or rear of the gage.
- All adjustments accomplished using a single hex wrench (furnished).
- **Scope of delivery:** Allen key

Technical Data

Type	OMI-300P-3x		300P-3x		OMI-301P-3x		301P-3x	
Lifting lever					x		x	
Indicator included			x				x	
Measuring range	Order no.	Order no.	indicator	Order no.	Order no.	indicator		
inch								
0 - 1 "	2054289 (- 31)	2054289 (- 31)	IDS-101 (B5M)	2054308 (- 31)	2050577 (- 31)	IDS-101 (B5M)		
1 - 2 "	2054290 (- 32)	2054290 (- 32)	IDS-101 (B5M)	2054309 (- 32)	2050579 (- 32)	IDS-101 (B5M)		
2 - 3 "	2054291 (- 33)	2054291 (- 33)	IDS-101 (B5M)	2054310 (- 33)	2050581 (- 33)	IDS-101 (B5M)		
3 - 4 "	2054292 (- 34)	2054292 (- 34)	IDS-101 (B5M)	2054311 (- 34)	2050583 (- 34)	IDS-101 (B5M)		
4 - 5 "	2054293 (- 35)	2054293 (- 35)	IDS-101 (B5M)	2054312 (- 35)	2050585 (- 35)	IDS-101 (B5M)		
5 - 6 "	2054336 (- 36)	2063536 (- 36)	IDS-106 (25M)	2063436 (- 36)	2063636 (- 36)	IDS-106 (25M)		
6 - 7 "	2054337 (- 37)	2063537 (- 37)	IDS-106 (25M)	2063437 (- 37)	2063637 (- 37)	IDS-106 (25M)		
7 - 8 "	2054338 (- 38)	2063538 (- 38)	IDS-106 (25M)	2063438 (- 38)	2063638 (- 38)	IDS-106 (25M)		
8 - 9 "	2054339 (- 39)	2063539 (- 39)	IDS-106 (25M)	2063439 (- 39)	2063639 (- 39)	IDS-106 (25M)		
Graduation	inch	.0005 "		3/8 "		.0005 "		
Mounting shaft	inch	3/8 "		.08" x .61 "		3/8 "		
Size of measuring surface	inch	.08" x .61 "		.02 "		.08" x .61 "		
Distance of movable anvil	inch	.02 "		18		.02 "		
Measuring force	N	18		18		18		

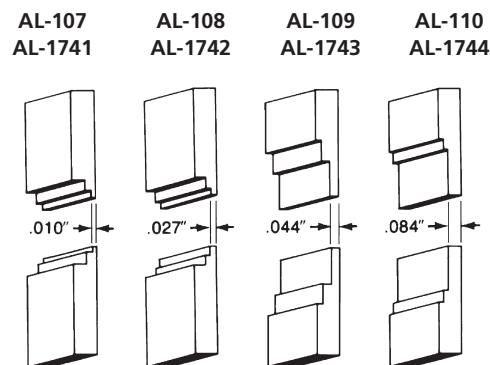


Order no.	a	b	c	d	e
	mm	mm	mm	mm	mm
2050485	25.4	150	29	145	158
2050497	50.8	175	29	141	154
2050499	76.2	200	29	155	167
2050511	101.6	226	29	167	180
2050514	127	251	29	180	193
2050516	152.4	278	30	203	215
2050518	177.8	303	30	213	226
2050527	203.2	329	30	231	244
2050529	228.6	335	30	248	261



Accessories

Order no.	Product name	Product type
2003150	Base/Bench Stand for 300P or 1000P style Snap Gage	BA-26
2204644	Bench stand for AGD style 3 disc masters up to 127mm / 5"	BA-71
2232478	Lighter force spring for OMI-300P	SP-192
2232441	Heavier force spring for OMI-300P	SP-118
2202239	Blade anvils, steel, width 0,25mm/.010", depth 0,76mm/.030" (option)	AL-107
2202240	Balde anvils, steel, width 0,69mm/.027", depth 1,02mm/.040" (option)	AL-108
2202241	Blade anvils, steel, width 1,12mm/.044", depth 5,08mm/.20" (option)	AL-109
2202242	Blade anvils, steel, width 2,13mm/.084", depth 6,35mm/.25" (standard)	AL-110
2202266	Blade anvils, carbide, width 0,25mm/.010", depth 0,76mm/.030" (option)	AL-1741
2202267	Blade anvils, carbide, width 0,69mm/.027", depth 0,76mm/.040" (option)	AL-1742
2202268	Blade anvils, carbide, width 1,12mm/.044", depth 5,08mm/.20" (option)	AL-1743
2202269	Blade anvils, carbide, width 2,13mm/.084", depth 6,35mm/.25" (option)	AL-1744





Indicating Snap Gage MaraMeter 840 F



Application:

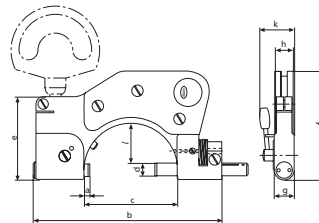
- For cylindrical parts such as shafts, bolts and spindles, for thickness and length measurements
- Universally applicable and extremely versatile. Each instrument spans a broad measuring range, within this range any dimension and fit can be very quickly and easily adjusted

- Rugged, forged steel frame with heat insulators
- Measuring spindle is mounted in long guideway with lever controlled retraction
- Measuring spindle and anvil spindle are made of hardened stainless steel, carbide tipped measuring faces
- Adjustable centering stop for surface centering
- Anvil spindle can easily be fine adjusted
- Constant measuring force as a result of built-in spring, thus eliminating user influence
- Maximum wear resistance due to non-contact positioning in conjunction with carbide tipped measuring faces
- **Scope of delivery:** Flat contact point 903 (steel), Instruction manual, Wooden case (package excludes indicator)

Technical Data

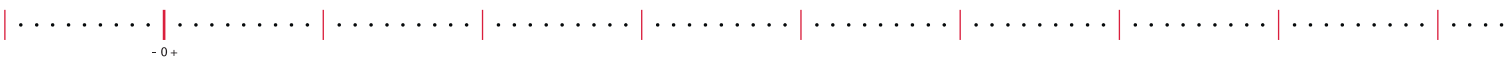
Order no.	Product type	Measuring range	Measuring range	Distance of movable anvil	Parallelism deviation	Flatness deviation	Repeatability f_w	Measuring force	Frame size
		mm	inch	mm	μm	μm	μm	N	
4450000	840 F	0–25	0–1"	2	1	0.2	0.5	7.5	1
4450001	840 F	25–60	1–2.36"	2	2	0.2	0.5	7.5	2
4450002	840 F	50–100	2–4"	2.5	2	0.2	1	7.5	3
4450003	840 F	100–150	4–6"	2.5	2	0.2	1	7.5	4
4450004	840 F	150–200	6–8"	2.5	2	0.2	1	7.5	5

Order no.	k	l	a	b	c	d	e	f	g	h
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
4450000	23	14	5	97	34	8	54	65	12	13
4450001	25	30	5	140	68	9	60	77	13	13
4450002	28	54	6.5	193	110	10	60	103	14	13
4450003	31	81	6.5	258	162	12	70	141	16	12
4450004	31	106	6.5	316	212	12	75	171	16	12



Accessories

Order no.	Product name	Product type
4333000	Millimess 5 μm , $\pm 130 \mu\text{m}$	1004
4334000	Millimess 1 μm , $\pm 50 \mu\text{m}$	1003
4334001	Millimess 2 μm , $\pm 130 \mu\text{m}$	1003 XL
4335000	Millimess 0.5 μm , $\pm 25 \mu\text{m}$	1002
4337620	Digital Indicator, 0.0005 mm, 12.5 mm	1086 R
4337624	Digital Indicator, 0.0005 mm, 12.5 mm	1086 Ri
4346000	Inductive dial comparator, $\pm 0.9 \mu\text{m}$	2000
4346100	Inductive dial comparator, $\pm 0.9 \mu\text{m}$	2001
4450020	Base, for stationary application	840 Ff
4450050	Holder, Frame size 1	840 Fk/1
4450051	Holder, Frame size 2	840 Fk/2
4450052	Holder, Frame size 3	840 Fk/3
4450053	Holder, Frame size 4 + 5	840 Fk/4





Indicating Snap Gage MaraMeter 840 FC

- **Longer service life due to the ceramic measuring faces**
- Rugged, forged steel frame with heat insulators
- Measuring spindle is mounted in long guideway with lever controlled retraction
- Measuring spindle and anvil spindle are both made of hardened stainless steel, ceramic measuring faces
- Adjustable centering stop for surface centering
- Anvil spindle can easily be fine adjusted
- Constant measuring force as a result of built-in spring, thus eliminating user influence
- Maximum wear resistance due to non-contact positioning in conjunction with carbide tipped measuring faces in connection with ceramic measuring faces
- **Scope of delivery:** Flat contact point 903 (steel), Instruction manual, Wooden case (package excludes indicator)



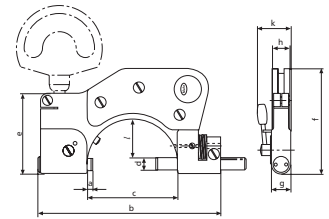
Application:

- For cylindrical parts such as shafts, bolts and spindles, for thickness and length measurements
- 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

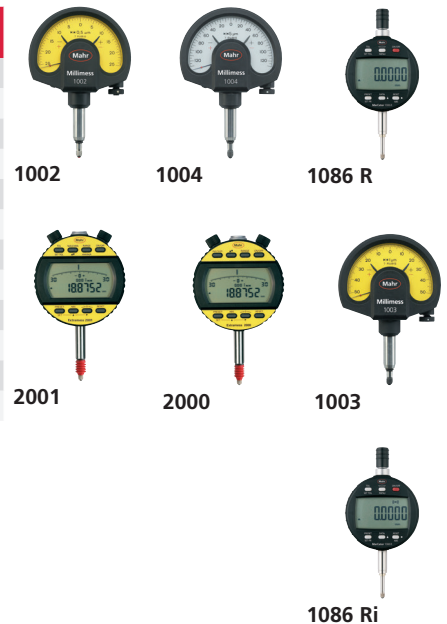
Order no.	Product type	Measuring range	Measuring range	Distance of movable anvil	Parallelism deviation	Flatness deviation	Repeatability f_w	Measuring force	Frame size
		mm	inch	mm	μm	μm	μm	N	
4450100	840 FC	0–25	0–1"	2	1	0.2	1	7.5	1
4450101	840 FC	25–60	1–2.36"	2	2	0.2	1	7.5	2

Order no.	k	l	a	b	c	d	e	f	g	h
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
4450100	23	14	5	97	34	8	54	65	12	13
4450101	25	30	5	140	68	9	60	77	13	13



Accessories

Order no.	Product name	Product type
4333000	Millimess 5 μm , $\pm 130 \mu\text{m}$	1004
4334000	Millimess 1 μm , $\pm 50 \mu\text{m}$	1003
4334001	Millimess 2 μm , $\pm 130 \mu\text{m}$	1003 XL
4335000	Millimess 0.5 μm , $\pm 25 \mu\text{m}$	1002
4337620	Digital Indicator, 0.0005 mm, 12.5 mm	1086 R
4337624	Digital Indicator, 0.0005 mm, 12.5 mm	1086 Ri
4346000	Inductive dial comparator, $\pm 0.9 \mu\text{m}$	2000
4346100	Inductive dial comparator, $\pm 0.9 \mu\text{m}$	2001
4450020	Base, for stationary application	840 Ff
4450050	Holder, Frame size 1	840 Fk/1
4450051	Holder, Frame size 2	840 Fk/2





Indicating Snap Gage MaraMeter 840 FH



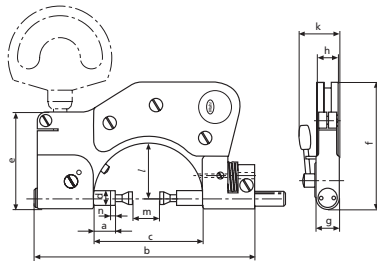
Application:

- For cylindrical parts such as shafts, bolts and spindles
- Universally applicable
- A wide variety of measurement problems can be solved with the broad range of interchangeable anvils

Technical Data

Order no.	Product type	Measuring range	Measuring range	Distance of movable anvil	Repeatability f_w	Measuring force	Frame size
		mm	inch			N	
4451000	840 FH	0–30	0–1.18"	2	1	7.5	2
4451005	840 FH	30–80	1.18–3"	2.5	1	7.5	3

Order no.	k	l	n	a	b	c	d	e	f	g	h
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
4451000	25	34	2	12.5	140	68	9	60	77	13	13
4451005	28	59	2.5	7.5	193	110	10	60	103	13	13

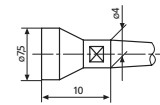


- Rugged, forged steel frame with heat insulators
- Measuring spindle is mounted in long guideway with lever controlled retraction
- Measuring and anvil spindle have precision tapered bores for mounting interchangeable anvils 40 He
- Anvil spindle can easily be fine adjusted
- Constant measuring force as a result of built-in spring, thus eliminating user influence
- Maximum wear resistance due to non-contact positioning in conjunction with carbide tipped measuring faces
- **Scope of delivery:** Flat contact point 903 (steel), Spanner DIN 902–3,5, Wooden case (package excludes indicator)

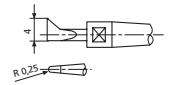


Accessories

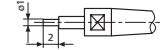
Order no.	Product name	Product type
4333000	Millimess 5 μm , $\pm 130 \mu\text{m}$	1004
4334000	Millimess 1 μm , $\pm 50 \mu\text{m}$	1003
4334001	Millimess 2 μm , $\pm 130 \mu\text{m}$	1003 XL
4335000	Millimess 0.5 μm , $\pm 25 \mu\text{m}$	1002
4337620	Digital Indicator, 0.0005 mm, 12.5 mm	1086 R
4337624	Digital Indicator, 0.0005 mm, 12.5 mm	1086 Ri
4346000	Inductive dial comparator, $\pm 0.9 \mu\text{m}$	2000
4346100	Inductive dial comparator, $\pm 0.9 \mu\text{m}$	2001
4880210	Spanner for 840 FH, to loosen anvils	
4450051	Holder, Frame size 2	840 Fk/2
4450020	Base, for stationary application	840 Ff
4152036	Measuring anvils, flat faces, carbide version	40 He 0H
4152011	Measuring anvils, stepped flat faces	40 He 1
4152033	Measuring anvils, stepped flat faces, carbide version	40 He 1H
4152012	Measuring anvils, stepped flat faces	40 He 2
4152037	Measuring anvils, offset end faces, carbide	40 He 2H
4152013	Measuring anvils, disc type anvils	40 He 3
4152014	Measuring anvils, disc type anvils with V-groove	40 He 4
4152015	Measuring anvils, Blade type anvils	40 He 5
4152016	Measuring anvils, offset blades	40 He 6
4152017	Measuring anvils, recessed blades	40 He 7
4152018	Measuring anvils, recessed flat faces with V-grooves on sleeve	40 He 8
4152019	Measuring anvils, recessed flat faces with slip on support	40 He 9
4152020	Measuring anvils, with clearance bores	40 He 10
4152021	Measuring anvils, with points	40 He 11
4450052	Holder, Frame size 3	840 Fk/3



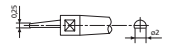
40 He 0H



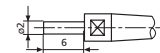
40 He 6



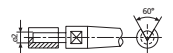
40 He 1



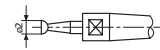
40 He 7



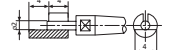
40 He 2



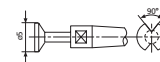
40 He 8



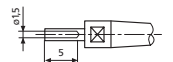
40 He 3



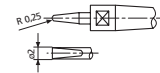
40 He 9



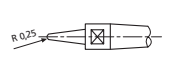
40 He 4



40 He 10



40 He 5



40 He 11



1004



1002



1003



2000



1086 Ri



1086 R



Indicating Snap Gage MaraMeter 840 FG



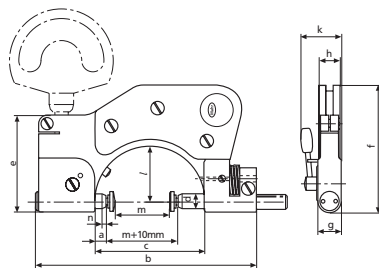
Application:

- For cylindrical parts such as shafts, bolts and spindles
- Universally applicable
- A wide variety of measurement problems can be solved with the broad range of interchangeable anvils

Technical Data

Order no.	Product type	Measuring range	Measuring range	Distance of movable anvil	Repeatability f_w	Measuring force	Frame size
		mm	inch			μm	
4454000	840 FG	0 – 50	0 – 2"	2	1	7.5	2
4454001	840 FG	40 – 90	1.57 – 3.57"	2.5	1	7.5	3

Order no.	k	l	n	a	b	c	d	e	f	g	h
4454000	25	34	2	5	140	68	9	60	77	13	13
4454001	28	59	2.5	6.5	193	110	10	60	103	14	13

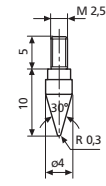


- Rugged, forged steel frame with heat insulators
- Measuring spindle is mounted in long guideway with lever controlled retraction
- Measuring spindle and anvil spindle have a M 2.5 connection thread, thus enabling the use of interchangeable anvils that are also used in dial indicators and dial comparators
- Anvil spindle can easily be fine adjusted
- Constant measuring force as a result of built-in spring, thus eliminating user influence
- Maximum wear resistance due to non-contact positioning in conjunction with carbide tipped measuring faces
- **Scope of delivery:** Flat contact point 903 (steel), Wooden case (package excludes indicator)

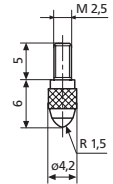


Accessories

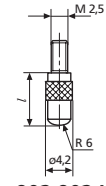
Order no.	Product name	Product type
4333000	Millimess 5 µm, ± 130 µm	1004
4334000	Millimess 1 µm, ± 50 µm	1003
4334001	Millimess 2 µm, ± 130 µm	1003 XL
4335000	Millimess 0.5 µm, ± 25 µm	1002
4337620	Digital Indicator, 0.0005 mm, 12.5 mm	1086 R
4337624	Digital Indicator, 0.0005 mm, 12.5 mm	1086 Ri
4346000	Inductive dial comparator, ± 0.9 µm	2000
4346100	Inductive dial comparator, ± 0.9 µm	2001
4450051	Holder, Frame size 2	840 Fk/2
4450020	Base, for stationary application	840 Ff
4360002	Standard contact point, Carbide, r = 1.5 mm	901 H
4360041	Spherical contact point, Carbide, l = 10 mm, r = 6 mm	902 H
4360043	Spherical contact point, Carbide, l = 15 mm, r = 6 mm	902 H
4360044	Spherical contact point, Carbide, l = 20 mm, r = 6 mm	902 H
4360101	Flat contact point, Carbide, l = 6 mm	903 H
4360103	Flat contact point, Carbide, l = 10 mm	903 H
4360105	Flat contact point, Carbide, l = 15 mm	903 H
4360106	Flat contact point, Carbide, l = 20 mm	903 H
4360131	Conical contact point, Carbide, r = 0.3 mm	904 H
4360150	Ball Contact Points, Carbide, l = 8.5 mm, d = 1,0 mm	906 H
4360151	Ball Contact Points, Carbide, l = 8.5 mm, d = 1,25 mm	906 H
4360152	Ball Contact Points, Carbide, l = 8.5 mm, d = 1,5 mm	906 H
4360153	Ball Contact Points, Carbide, l = 8.5 mm, d = 1,75 mm	906 H
4360154	Ball Contact Points, Carbide, l = 8.5 mm, d = 2,0 mm	906 H
4360155	Ball Contact Points, Carbide, l = 8.5 mm, d = 2,5 mm	906 H
4360156	Ball Contact Points, Carbide, l = 8.5 mm, d = 3,0 mm	906 H
4360157	Ball Contact Points, Carbide, l = 8.5 mm, d = 3,5 mm	906 H
4360158	Ball Contact Points, Carbide, l = 8.5 mm, d = 4,0 mm	906 H
4360159	Ball Contact Points, Carbide, l = 8.5 mm, d = 4,5 mm	906 H
4360160	Ball Contact Points, Carbide, l = 9 mm, d = 5,0 mm	906 H
4360161	Ball Contact Points, Carbide, l = 9 mm, d = 5,5 mm	906 H
4360162	Ball Contact Points, Carbide, l = 9 mm, d = 6 mm	906 H
4360163	Ball Contact Points, Carbide, l = 9 mm, d = 6,35 mm	906 H
4360164	Ball Contact Points, Carbide, l = 10 mm, d = 6,5 mm	906 H
4360165	Ball Contact Points, Carbide, l = 10 mm, d = 7 mm	906 H
4360166	Ball Contact Points, Carbide, l = 11 mm, d = 7,5 mm	906 H
4360167	Ball Contact Points, Carbide, l = 11 mm, d = 8,0 mm	906 H
4360168	Ball Contact Points, Carbide, l = 12 mm, d = 8,5 mm	906 H
4360169	Ball Contact Points, Carbide, l = 12 mm, d = 9,0 mm	906 H
4360170	Ball Contact Points, Carbide, l = 13 mm, d = 10,0 mm	906 H
4360200	Flat contact plates, Steel, Measuring surface ø 11.3 mm	907
4360201	Flat contact plates, Carbide, Measuring surface ø 7 mm	907 H
4360210	Spherical contact plates, steel, Measuring surface ø 12 mm	908
4360211	Spherical contact plates, Carbide, Measuring surface ø 12 mm	908 H
4360240	Pin contact point, Carbide, l = 2 mm, Measuring surface ø 1 mm	911 H1
4450052	Holder, Frame size 3	840 Fk/3



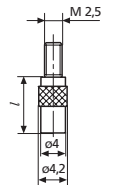
904;904 H



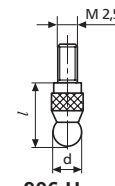
901



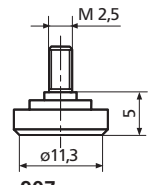
902;902 H



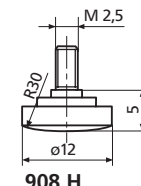
903;903 H



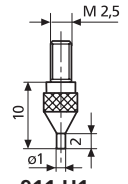
906 H



907



908 H



911 H1



2001



2000



1086 Ri



1086 R



1002



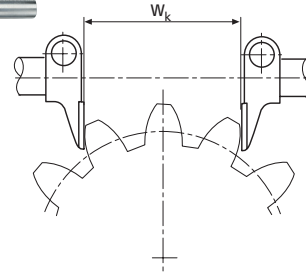
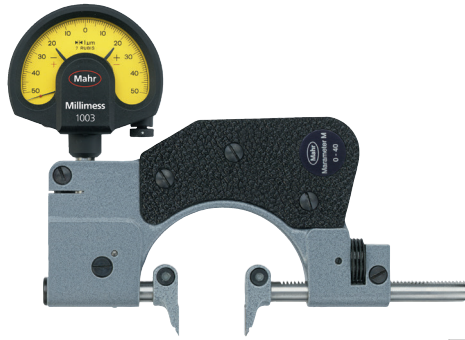
1003



1004



Indicating Snap Gage MaraMeter 840 FM



Application:

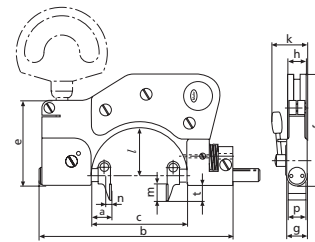
- For diameters of small hubs, registers, shoulders on shafts and groove widths
- For inspection for tooth span W_k as indirect, reference-free determination of tooth thickness on spur gears with straight and helical teeth
- Universally applicable and extremely versatile, each instrument spans a broad measuring range, within this range any dimension and fit can be very quickly and easily adjusted

- Rugged, forged steel frame with heat insulators
- Measuring spindle is mounted in long guideway with lever controlled retraction
- Measuring spindle and anvil spindle made of hardened stainless steel; with extending carbide-tipped measuring jaws
- Anvil spindle can easily be fine adjusted
- Constant measuring force as a result of built-in spring, thus eliminating user influence
- Maximum wear resistance due to non-contact positioning in conjunction with carbide tipped measuring faces in conjunction with carbide-tipped measuring faces
- **Scope of delivery:** Flat contact point 903 (steel), Instruction manual, Wooden case (package excludes indicator)

Technical Data

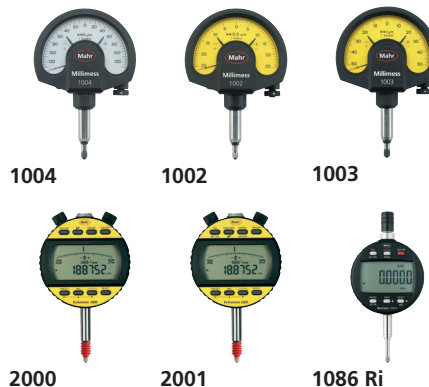
Order no.		4452000	4452001	4452002	4452003
Product type		840 FM	840 FM	840 FM	840 FM
Measuring range	mm	0 – 40	40 – 80	80 – 130	130 – 180
Measuring range	inch	0 – 1.57"	1.57 – 3"	3 – 5"	5 – 7"
Base tangent lengths starting from module m		0.5	0.5	1	1
Size of measuring surface		12 x 12 mm	12 x 12 mm	15 x 17 mm	15 x 17 mm
Distance of movable anvil	mm	2	2.5	2.5	2.5
Parallelism deviation	μm	2	3	3	3
Flatness deviation	μm	0.5	0.5	0.5	0.5
Repeatability fw	μm	1	1	1	1
Measuring force	N	75	75	9	9
Frame size		2	3	4	5

Order no.	k	l	m	p	t	a	b	c	e	f	g	h
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
4452000	25	34	12	12	11	14	140	68	60	77	13	13
4452001	28	59	12	12	11	14	193	110	60	103	14	13
4452002	31	87	17	15	17	19	258	162	70	141	16	20
4452003	31	112	17	15	17	15	316	212	75	171	16	20



Accessories

Order no.	Product name	Product type
4333000	Millimess 5 μm , $\pm 130 \mu\text{m}$	1004
4334000	Millimess 1 μm , $\pm 50 \mu\text{m}$	1003
4334001	Millimess 2 μm , $\pm 130 \mu\text{m}$	1003 XL
4335000	Millimess 0.5 μm , $\pm 25 \mu\text{m}$	1002
4337620	Digital Indicator, 0.0005 mm, 12.5 mm	1086 R
4337624	Digital Indicator, 0.0005 mm, 12.5 mm	1086 Ri
4346000	Inductive dial comparator, $\pm 0.9 \mu\text{m}$	2000
4346100	Inductive dial comparator, $\pm 0.9 \mu\text{m}$	2001
4450020	Base, for stationary application	840 Ff
4450051	Holder, Frame size 2	840 Fk/2
4450052	Holder, Frame size 3	840 Fk/3
4450053	Holder, Frame size 4 + 5	840 Fk/4





Indicating Snap Gage MaraMeter 840 FS

- Rigid frame; convenient handle with heat insulators open on one end to eliminate heat transfer from user's hand
- Both spindles are made of hardened stainless steel and mounted in long guideways
- Carbide tipped measuring faces slightly chamfered at the front to facilitate positioning
- Projects over width of frame for measurement of narrow registers or when measuring directly at shoulders
- Adjustable centering stop for surface centering
- Maximum accuracy. Straight transfer of spindle movement to indicator. During the measurement, the weight of the gage rests on the anvil spindle
- Direct indication and evaluation of measurement results
- Constant measuring force as a result of built-in spring, thus eliminating user influence
- **Scope of delivery:** Wooden case, Allen key, excludes indicator



Application:

- For all kinds of cylindrical workpieces, whether directly on a machine tool or production control
- 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

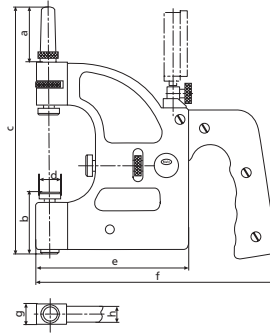
Technical Data

Order no.	Product type	Measuring range		Distance of movable anvil	Parallelism deviation	Flatness deviation	Repeatability f_w	Measuring force	Product weight
		mm	inch						
4455000	840 FS	10 – 30	.39 – 1.18"	0.7	3	0.5	1	13.5	0.60
4455001	840 FS	30 – 60	1.18 – 2.36"	0.7	3	0.5	1	13.5	0.90
4455002	840 FS	60 – 100	2.36 – 4"	0.7	3	0.5	1	13.5	1.30
4455003	840 FS	100 – 150	4 – 6"	0.7	3	0.5	1	15	1.70
4455004	840 FS	150 – 200	6 – 8"	0.7	3	0.5	1	15	2.00
4455005	840 FS	200 – 250	8 – 10"	0.7	3	0.5	1	15	2.20
4455006	840 FS	250 – 300	10 – 12"	0.7	3	0.5	1	15	2.50
4455007	840 FS	300 – 350	12 – 14"	0.7	4	0.5	1	15	3.30
4455008	840 FS	350 – 400	14 – 16"	0.7	4	0.5	1	15	3.30
4455009	840 FS	400 – 450	16 – 18"	0.7	4	0.5	1	15	4.30
4455010	840 FS	450 – 500	18 – 20"	0.7	4	0.5	1	15	4.70



Indicating Snap Gage MaraMeter 840 FS

Order no.	a	b	c	d	e	f	g	h
	mm	mm	mm	mm	mm	mm	mm	mm
4455000	37	46	154	18	87	161	17	15
4455001	45	51	199	18	122	196	17	15
4455002	56	62	260	22	154	228	20	18
4455003	71	62	335	22	189	263	20	18
4455004	71	62	385	22	214	288	20	18
4455005	71	62	436	22	248	322	20	18
4455006	71	62	487	22	280	354	20	18
4455007	71	62	537	22	310	384	20	18
4455008	71	62	587	22	350	424	20	18
4455009	71	62	637	22	380	454	20	18
4455010	71	62	687	22	410	484	20	18



Accessories

Order no.	Product name	Product type
4335000	Millimess 0.5 μm , $\pm 25 \mu\text{m}$	1002
4334000	Millimess 1 μm , $\pm 50 \mu\text{m}$	1003
4334001	Millimess 2 μm , $\pm 130 \mu\text{m}$	1003 XL
4333000	Millimess 5 μm , $\pm 130 \mu\text{m}$	1004
4337620	Digital Indicator, 0.0005 mm, 12.5 mm	1086 R
4337624	Digital Indicator, 0.0005 mm, 12.5 mm	1086 Ri
4346000	Inductive dial comparator, $\pm 0.9 \mu\text{m}$	2000
4346100	Inductive dial comparator, $\pm 0.9 \mu\text{m}$	2001



1004



1003



1002



1086 R



1086 Ri



2000

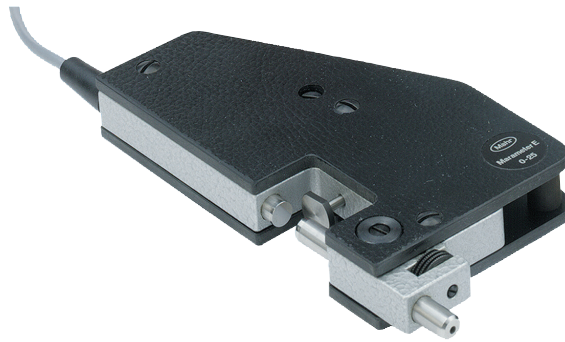


2001



Indicating Snap Gage MaraMeter 840 E

- Extremely accurate due to the straight transfer of spindle movement to the inductive measuring system according to the Abbe principle
- 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
- Constant measuring force as a result of built-in spring, thus eliminating user influence
- Maximum wear resistance due to non-contact positioning in conjunction with carbide tipped measuring faces
- **Scope of delivery:** Wooden case, excludes indicator



Technical Data

Order no.	Readings/Selectable resolution down to	Product type	Measuring range	Measuring surface \varnothing	Parallelism deviation	Repeatability f_w	Measuring force	Frame size
4453000	μm 0.01	840 E	mm 0 –25	mm 7.5	μm 0.3	μm 0.1	N 4.5	1

Accessories

Order no.	Product name	Product type
5312010	Compact Amplifier	C1200
5312080	Compact Amplifier	C 1208 M
5312160	Compact Amplifier	C 1216 M
4450020	Base, for stationary application	840 Ff



C1200



C 1208 M



Indicating Bench Snap Gage MaraMeter 852 TS / 852 TSZ



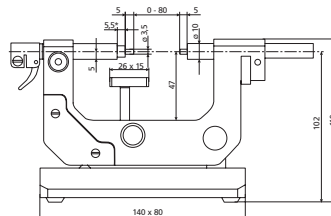
Application:

- For rapid measurements of diameters of cylindrical parts (shafts, bolts and shanks)
- For measuring pitch, root and outside diameters of all kinds of external threads as well as serrations
- For thickness and length measurement
- Particularly suited for batch produced parts

- Rugged steel frame, can be inclined up to 45° from the sturdy base
- Measuring spindle and anvil spindle are made of hardened stainless steel, with mounting bore for insertion of interchangeable anvils
- Height adjustable stop
- Anvil spindle can easily be fine adjusted
- Constant measuring force as a result of built-in spring, thus eliminating user influence
- **Scope of delivery:** plan carbide anvils Dia. 3,5 mm

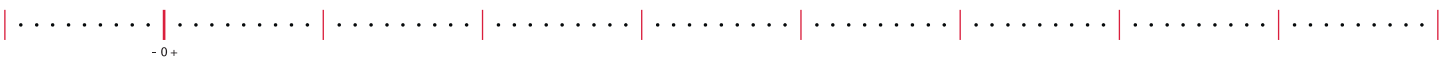
Technical Data

Order no.		4510030	4510031	4510035
Product type			852 TS	852 TSZ
Measuring range	mm		0 – 80	
Measuring range	inch		0 – 3.15"	
Distance of movable anvil	mm		1.2	
Indicating instrument (included in package)		Millimes 1003	without	without
Parallelism deviation	µm		2	
Repeatability f_w	µm		1	
Measuring force	N		6.5	



Accessories

Order no.	Product name	Product type
4333000	Millimes 5 µm, ± 130 µm	1004
4334000	Millimes 1 µm, ± 50 µm	1003
4334001	Millimes 2 µm, ± 130 µm	1003 XL
4335000	Millimes 0.5 µm, ± 25 µm	1002
4337620	Digital Indicator, 0.0005 mm, 12.5 mm	1086 R
4337624	Digital Indicator, 0.0005 mm, 12.5 mm	1086 Ri
4346000	Inductive dial comparator, ± 0.9 µm	2000
4346100	Inductive dial comparator, ± 0.9 µm	2001





Indicating Thread Snap Gage MaraMeter 852

- Rugged, forged steel frame with heat insulators
- Measuring spindle is mounted in long guide way with lever controlled retraction
- Measuring spindle and anvil spindle are both made of hardened stainless steel, with mounting bore for insertion of interchangeable anvils
- Adjustable center stop for automatic alignment
- Anvil spindle can easily be fine adjusted
- Constant measuring force as a result of built-in spring, thus eliminating user influence
- Maximum wear resistance due to non-contact positioning in conjunction with carbide tipped measuring faces
- **Scope of delivery:** Flat contact point 903 (steel), Wooden case (package excludes indicator)



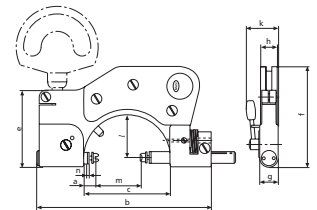
Application:

- For measuring pitch, root and outside diameters of all kinds of external threads as well as serrations
- Universally applicable and extremely versatile. Each instrument spans a broad measuring range

Technical Data

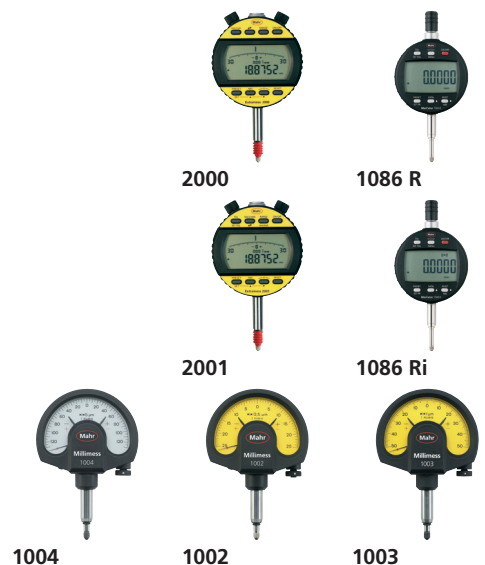
Order no.		4510000	4510001	4510002	4510003
Product type		852			
Measuring range	mm	0 – 45	45 – 85	85 – 140	140 – 190
Measuring range	inch	0 – 1.77"	1.77 – 3.34"	3.34 – 5.51"	5.51 – 7.48"
Distance of movable anvil	mm	2	2.5		
Repeatability f_w	μm	1			
Measuring force	N	7.5		9	
Frame size		2	3	4	5

Order no.	k	l	a	b	c	e	f	g	h
	mm	mm	mm	mm	mm	mm	mm	mm	mm
4510000	25	34	13	140	68	60	77	13	13
4510001	28	59	8	193	11	60	103	14	13
4510002	31	87	10	258	162	70	141	16	12
4510003	31	112	6	316	212	75	171	16	12



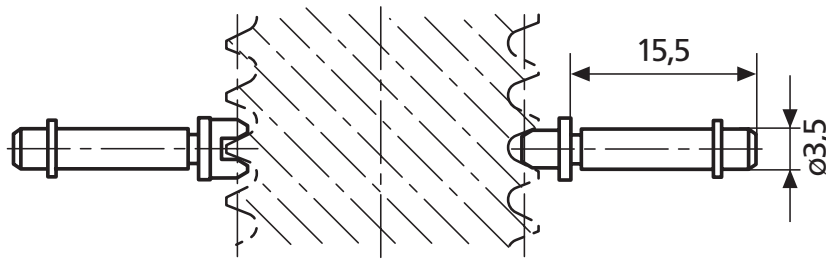
Accessories

Order no.	Product name	Product type
4333000	Millimess 5 μm , $\pm 130 \mu\text{m}$	1004
4334000	Millimess 1 μm , $\pm 50 \mu\text{m}$	1003
4334001	Millimess 2 μm , $\pm 130 \mu\text{m}$	1003 XL
4335000	Millimess 0.5 μm , $\pm 25 \mu\text{m}$	1002
4337620	Digital Indicator, 0.0005 mm, 12.5 mm	1086 R
4337624	Digital Indicator, 0.0005 mm, 12.5 mm	1086 Ri
4346000	Inductive dial comparator, $\pm 0.9 \mu\text{m}$	2000
4346100	Inductive dial comparator, $\pm 0.9 \mu\text{m}$	2001
4450051	Holder, Frame size 2	840 Fk/2
4450020	Base, for stationary application	840 Ff
4173210	Anvil flat, hardened steel	40 Za
4511190	Anvil flat, carbide tipped	40 Za
4450052	Holder, Frame size 3	840 Fk/3
4450053	Holder, Frame size 4 + 5	840 Fk/4





MaraMeter Thread anvils



- For pitch diameters
- Wear-resistant special steel, hardened
- With cylindrical mounting shank and retainer ring for rotatable mounting in the bore of dial comparator snap gage
- Pair comprises V-anvil and cone
- **With a pitch of 0.2 – 0.45 mm, the V-anvil bridges 3 turns;** It should therefore be set with 715 E thread adjustment pins, otherwise with 43 Z setting standards.

Accessories

Thread pitch in mm	Blade Order no.	V-anvil Order no.
Pitch diameter, external thread		
Metric 60°		
0,2	4173707	4173007
0,25	4173708	4173008
0,3	4173709	4173009
0,35	4173710	4173010
0,4	4173711	4173011
0,45	4173712	4173012
0,5 – 0,7	4173700	4173000
0,7 – 1	4173701	4173001
1,25 – 2	4173702	4173002
	4511104	4511105
2 – 3,5	4173703	4173003
	4511107	4511108
3,5 – 5	4173704	4173004
	4511139	4511140
5 – 7	4173705	4173005
	4511141	4511142
7 – 9	4173706	4173006

Thread pitch in TPI	Blade Order no.	V-anvil Order no.
UST 60°		
10 – 7	4173820	4173120
14 – 10	4173819	4173119
18 – 14	4173818	4173118
24 – 18	4173817	4173117
32 – 24	4173816	4173116
4,5 – 3	4173822	4173122
40 – 32	4173815	4173115
48 – 40	4173814	4173114
7 – 4,5	4173821	4173121
Whitworth 55°		
10 – 7	4173748	4173048
14 – 10	4173747	4173047
18 – 14	4173746	4173046
24 – 18	4173745	4173045
3 – 2,5	4179410	4179408
32 – 24	4173744	4173044
4,5 – 3	4173750	4173050
40 – 32	4173743	4173043
7 – 4,5	4173749	4173049

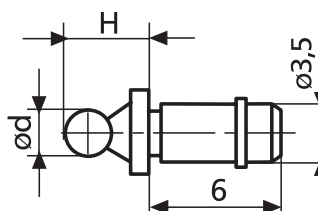


Ball contact Marameter

- For measuring gears and for special applications
- Carbide ball
- With cylindrical mounting shank and retainer ring
- For mounting into mounting bores of thread micrometers 40 Z and 852

Order no.	d	h
	mm	mm
4179150	0.5	5
4179151	0.551	5.1
4179152	0.62	5.1
4179153	0.623	5.1
4179154	0.63	5.1
4179155	0.722	5.2
4179156	0.862	5.4
4179157	0.895	5.4
4179158	0.965	5.5
4170550	1	5.5
4179159	1.1	5.6
4179160	1.118	5.6
4170551	1.25	5.8
4179161	1.125	5.6
4179162	1.35	5.9
4179163	1.372	5.9
4179164	1.385	5.9
4170552	1.5	6
4179165	1.524	6
4179166	1.54	6
4179167	1.6	6.1
4179168	1.65	6.2
4179169	1.7	6.2
4170553	1.75	6.3
4179170	1.782	6.3
4179171	1.8	6.3
4179172	1.829	6.3
4179173	1.9	6.4
4170554	2	6.5
4170568	2.032	6.5
4170569	2.2	6.7
4170564	2.25	6.8
4179174	2.284	6.8
4179175	2.386	6.9
4179176	2.438	6.9
4170556	2.5	7
4179177	2.667	7.2
4179178	2.704	7.2
4179179	2.713	7.2
4179180	2.721	7.2
4179181	2.743	7.2
4170565	2.75	7.3
4170557	3	7.5
4179182	3.048	7.5
4170570	3.2	7.7
4170566	3.25	7.8
4179183	3.4	7.9
4170558	3.5	8
4179184	3.658	8.2
4170571	3.7	8.2
4170559	4	8.5
4170560	4.5	9
4179185	4.835	9.3
4170561	5	9.5
4179186	5.25	9.8
4179187	5.486	10

Order no.	d	h
	mm	mm
4170562	5.5	10
4170563	6	10.5
4179188	6.096	10.6
4179189	6.35	10.9
4170567	6.5	11
4170572	7	11.5
4170573	8	12.5
4170574	9	13.5
4170575	10	14.5

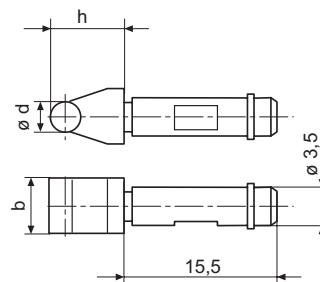




Roller blades, carbide MaraMeter

- For measuring gears for special applications
- Carbide measuring roller
- To be mounted in the mounting bores of the 40 Z and 852

Order no.	B	b	d	h
	mm	mm	mm	mm
4510200	5.00	5	1	5.5
4510201	5.00	5	1.25	5.8
4510202	5.00	5	1.5	6
4510203	5.00	5	1.75	6.3
4510204	5.50	5	2	6.5
4510206	5.50	5.5	2.5	7
4510207	5.50	5.5	3	7.5
4510208	5.50	5.5	3.5	8
4510209	5.50	5.5	4	8.5
4510210	5.50	5.5	4.5	9
4510211	6.00	6	5	9.5
4510212	6.00	6	5.5	10
4510213	6.00	6	6	10.5





Indicating thread snap gage MaraMeter 853

- Rugged, forged steel frame with heat insulators
- Measuring spindle is mounted in long guideway with lever controlled retraction
- Anvil spindle adjustable with thumbscrew via worm and rack, for mounting interchangeable support yokes
- Measuring spindle and anvil spindle are both made of hardened stainless steel, with mounting bore for insertion of interchangeable anvils
- Anvil spindle can easily be fine adjusted
- Constant measuring force as a result of built-in spring, thus eliminating user influence
- Maximum wear resistance due to non-contact positioning
- **Scope of delivery:** Flat contact point 903 (steel), Wooden case, excludes indicator



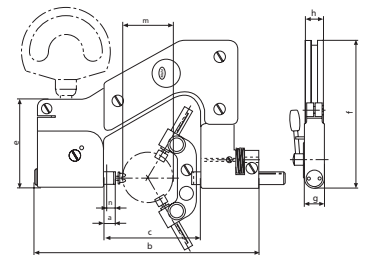
Application:

- For pitch, root and outside diameters on taps in conjunction with interchangeable anvils
- Universally applicable and extremely versatile. Each instrument spans a broad measuring range

Technical Data

Order no.		4511000	4511001
Product type			853
Measuring range	mm	1.2 – 35	35 – 75
Measuring range	inch	.04 – 1.37"	1.37 – 3"
Distance of movable anvil	mm		8
Repeatability f_w	μm		2
Measuring force	N		7.5

Order no.	n	a	b	c	e	f	g	h
	mm	mm	mm	mm	mm	mm	mm	mm
4511000	8	12	152	66	60	98	14	11.5
4511001	8	11.5	192	110	65	125	14	14



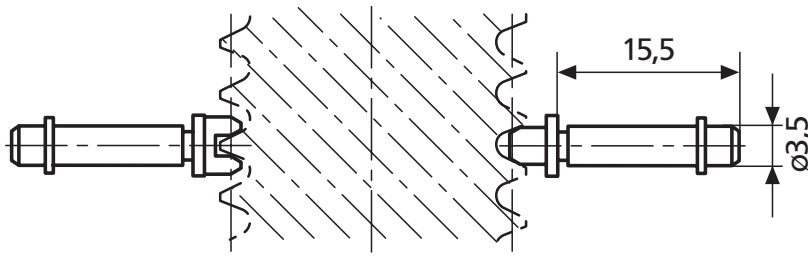
Accessories

Order no.	Product name	Product type
4333000	Millimess 5 μm , $\pm 130 \mu\text{m}$	1004
4332000	Millimess 0.01 mm, $\pm 0.25 \text{ mm}$	1010
4311000	Precision Dial Indicator, 0.01 mm, 10 mm	810 S
4337620	Digital Indicator, 0.0005 mm, 12.5 mm	1086 R
4337624	Digital Indicator, 0.0005 mm, 12.5 mm	1086 Ri
4511024	Interchangeable Support Yoke 3 flutes of taps for range 1,2–35 mm	853 qk 3
4511025	Interchangeable Support Yoke 3 flutes of taps for range 35–75mm	853 qg 3
4511026	Interchangeable Support Yoke 5 flutes of taps for range 1,2–35 mm	853 qk 5
4511027	Interchangeable Support Yoke 5 flutes of taps for range 35–75 mm	853 qg 5
4511028	Interchangeable Support Yoke 7 flutes of taps for range 1,2–35 mm	853 qk 7
4511029	Interchangeable Support Yoke 7 flutes of taps for range 1,2–35 mm	853 qg 7
4511190	Anvil flat, carbide tipped	40 Za
4173210	Anvil flat, hardened steel	40 Za





MaraMeter Thread anvils



- For pitch diameters
- Wear-resistant special steel, hardened
- With cylindrical mounting shank and retainer ring for rotatable mounting in the bore of the dial comparator snap gage
- Adjustment with threaded setting plug 715 E

Accessories

Thread pitch in mm	Blade Order no.	V-anvil Order no.
Pitch diameter, external thread		
Metric 60°		
0,2	4174007	4173051
0,25	4174008	4173052
0,3	4174009	4173053
0,35	4174010	4173054
0,4	4174011	4173055
0,45	4174012	4173056
0,5 - 0,7	4174000	4173000
0,7 - 1	4174001	4173001
1,25 - 2	4174002	4173002
2 - 3,5	4174003	4173003
3,5 - 5	4173704	4173004
5 - 7	4174005	4173005
7 - 9	4174006	4173006

Thread pitch in TPI	Blade Order no.	V-anvil Order no.
UST 60°		
60 - 48	4176113	4173124
48 - 40	4176114	4173125
40 - 32	4176115	4173115
32 - 24	4176116	4173116
24 - 18	4176117	4173117
18 - 14	4176118	4173118
14 - 10	4176119	4173119
10 - 7	4176120	4173120
7 - 4,5	4176121	4173121
4,5 - 3	4176122	4173122
Whitworth 55°		
40 - 32	4176043	4173043
32 - 24	4176044	4173044
24 - 18	4176045	4173045
18 - 14	4176046	4173046
14 - 10	4176047	4173047
10 - 7	4176048	4173048
7 - 4,5	4176049	4173049
4,5 - 3	4176050	4173050
3 - 2,5	4179411	4179408



Portable Thickness Gages MaraMeter 838 A

- Rugged, sturdy frame made from hard aluminum
- Built-in Digital or Dial Indicator
- With a lifting lever for the movable upper measuring spindle
- Convenient heat insulated handle, open at one end
- Versions with a throat depth of 200 mm have a removable stand
- **Scope of delivery:** Includes Indicator



Application:

- With flat measuring faces
- For measuring soft materials like foil, felt, rubber, paper and cardboard

Technical Data

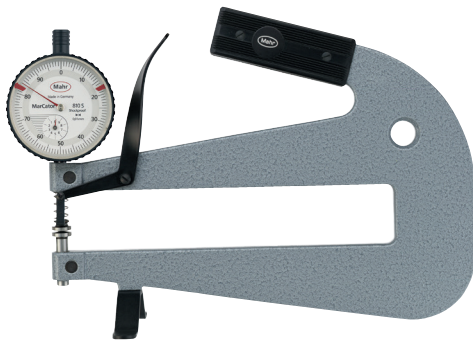
Order no.	Product type	Measuring range	Measuring range	Throat depth	Throat depth	Resolution	Resolution	Resolution	Measuring surface ø	Measuring surface	Indicating instrument (included in package)
		mm	inch	mm	inch	mm/inch	mm	inch	mm	cm ²	
4495120	838 A	0-20	0-.750"	50	2"	0.005 / .0001"	0.005	0.0001	11.3	1	MarCator 1075 R
4495121	838 A	0-20	0-.750"	100	4"	0.005 / .0001"	0.005	0.0001	11.3	1	MarCator 1075 R
4495122	838 A	0-20	0-.750"	200	8"	0.005 / .0001"	0.005	0.0001	11.3	1	MarCator 1075 R
4495125	838 A	0-20	0-.750"	50	2"	0.005 / .0001"	0.005	0.0001	20	3.14	MarCator 1075 R
4495126	838 A	0-20	0-.750"	100	4"	0.005 / .0001"	0.005	0.0001	20	3.14	MarCator 1075 R
4495127	838 A	0-20	0-.750"	200	8"	0.005 / .0001"	0.005	0.0001	20	3.14	MarCator 1075 R
4495130	838 A	0-20	0-.750"	50	2"	0.005 / .0001"	0.005	0.0001	30	7.06	MarCator 1075 R
4495131	838 A	0-20	0-.750"	100	4"	0.005 / .0001"	0.005	0.0001	30	7.06	MarCator 1075 R
4495132	838 A	0-20	0-.750"	200	8"	0.005 / .0001"	0.005	0.0001	30	7.06	MarCator 1075 R

Accessories

Order no.	Product name
4495050	Wooden case for throat depth 50mm
4495051	Wooden case for throat depth 100mm
4495052	Wooden case for throat depth 200mm



Portable Thickness Gages MaraMeter 838 A



- Rugged, sturdy frame made from hard aluminum
- Built-in Digital or Dial Indicator
- With a lifting lever for the movable upper measuring spindle
- Convenient heat insulated handle, open at one end
- Versions with a throat depth of 200 mm have a removable stand
- **Scope of delivery:** Includes Indicator

Application:

- With flat measuring faces
- For measuring soft materials like foil, felt, rubber, paper and cardboard

Technical Data

Order no.	Product type	Measuring range	Throat depth	Graduation value	Measuring surface ø	Measuring surface	Indicating instrument (included in package)
		mm	mm	mm	mm	cm ²	
4495000	838 A	0–20	50	0.01	11.3	1	MarCator 810 S
4495001	838 A	0–20	100	0.01	11.3	1	MarCator 810 S
4495002	838 A	0–20	200	0.01	11.3	1	MarCator 810 S
4495103	838 A	0–20	50	0.01	20	3.14	MarCator 810 S
4495104	838 A	0–20	100	0.01	20	3.14	MarCator 810 S
4495105	838 A	0–20	200	0.01	20	3.14	MarCator 810 S
4495109	838 A	0–20	50	0.01	30	7.06	MarCator 810 S
4495110	838 A	0–20	100	0.01	30	7.06	MarCator 810 S
4495111	838 A	0–20	200	0.01	30	7.06	MarCator 810 S

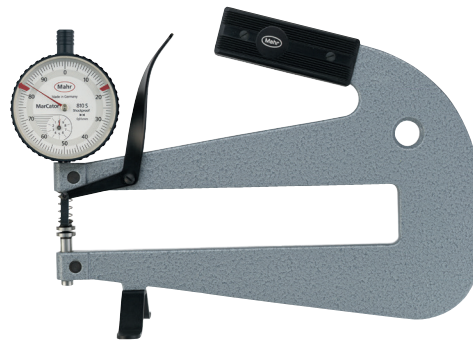
Accessories

Order no.	Product name
4495050	Wooden case for throat depth 50mm
4495051	Wooden case for throat depth 100mm
4495052	Wooden case for throat depth 200mm



Portable Thickness Gages MaraMeter 838 B

- Rugged, sturdy frame made from hard aluminum
- Built-in Digital or Dial Indicator
- With a lifting lever for the movable upper measuring spindle
- Convenient heat insulated handle, open at one end
- Versions with a throat depth of 200 mm have a removable stand
- **Scope of delivery:** Includes Indicator



Application:

- With spherical measuring faces
- For measuring hard materials like sheet metal, hardboard, wooden panels and panes of glass

Technical Data

Order no.	Product type	Measuring range	Measuring range	Throat depth	Throat depth	Resolution	Graduation value	Measuring surface ø	Measurement surface radius	Indicating instrument (included in package)
		mm	inch	mm	inch	mm/inch	mm	mm	mm	
4495010	838 B	0–20		50			0.01	12	30	MarCator 810 S
4495011	838 B	0–20		100			0.01	12	30	MarCator 810 S
4495012	838 B	0–20		200			0.01	12	30	MarCator 810 S
4495135	838 B	0–20	0–.750"	50	2"	0.005 / .0001"		12	30	MarCator 1075 R
4495136	838 B	0–20	0–.750"	100	4"	0.005 / .0001"		12	30	MarCator 1075 R
4495137	838 B	0–20	0–.750"	200	8"	0.005 / .0001"		12	30	MarCator 1075 R

Accessories

Order no.	Product name
4495050	Wooden case for throat depth 50mm
4495051	Wooden case for throat depth 100mm
4495052	Wooden case for throat depth 200mm



Portable Thickness Gages MaraMeter 838 AB



- Rugged, sturdy frame made from hard aluminum
- Built-in Digital or Dial Indicator
- With a lifting lever for the movable upper measuring spindle
- **Scope of delivery:** Includes Indicator

Application:

- Lower measuring face is flat
- Upper measuring face is spherical
- For measuring hard materials like sheet metal and hardboard

Technical Data

Order no.	Product type	Measuring range	Measuring range	Throat depth	Throat depth	Resolution	Graduation value	Measuring surface ø	Measuring surface	Measurement surface radius	Indicating instrument (included in package)
		mm	inch	mm	inch	mm/inch	mm	mm	cm ²	mm	
4495140	838 AB	0-20	0-.750"	50	2"	0.005 / .0001"		11.3	1	30	MarCator 1075 R
4495141	838 AB	0-20	0-.750"	100	4"	0.005 / .0001"		11.3	1	30	MarCator 1075 R
4495145	838 AB	0-20	0-.750"	50	2"	0.001 / .00005"		11.3	1	30	MarCator 1075 R
4495146	838 AB	0-20	0-.750"	100	4"	0.001 / .00005"		11.3	1	30	MarCator 1075 R
4495504	838 AB	0-20		50			0.01	11.3	1	30	MarCator 810 S
4495517	838 AB	0-20		100			0.001	11.3	1	30	Millimess 1003
4495519	838 AB	0-20		50			0.001	11.3	1	30	Millimess 1003

Accessories

Order no.	Product name
4495050	Wooden case for throat depth 50mm
4495051	Wooden case for throat depth 100mm



Portable Thickness Gages MaraMeter XLI-22P-20

- Indicator built into gage frame for maximum ruggedness
- Lift-lever for one-hand operation
- Continuous reading dials with revolution counter for absolute measurement of thin materials, plastic films and small parts
- 6.3 mm / .25" diameter, flat steel contacts
- **Data interface:** Digimatic, RS232C, USB
- **Energy supply:** Battery operation
- **Scope of delivery:** Includes Indicator



Application:

Thickness Measurement of small parts from 0 to 1.0 inch

Technical Data

Order no.	Product type	Measuring range		Throat depth		Resolution		Size of measuring surface	Indicating instrument (included in package)
		mm	inch	mm	inch	mm	inch		
2057541	XLI-22P-20	0-25	0-1"	50	2"	0.0005, 0.001, 0.002, 0.005, 0.01	.00002", .00005", .0001", .0002", .0005"	6.3mm / 0.25inch Steel Contacts	4337651 1086 ZR

Accessories

Order no.	Product name	Product type
2003150	Base/Bench Stand for 300P or 1000P style Snap Gage	BA-26

Portable Thickness Gages MaraMeter 22P-11 / 22P-15 / 22P-20



- Indicator built into gage frame for maximum ruggedness
- Lift-lever for one-hand operation
- Continuous reading dials with revolution counter for absolute measurement of thin materials, plastic films and small parts
- 6.3 mm / .25" diameter, flat steel contacts
- **Data interface:** none
- **Scope of delivery:** Includes Indicator

Application:

Thickness Measurement of small parts from 0 to 1.0 inch, depending on model

Technical Data

Order no.	Product type	Measuring range	Jaw depth	Graduation value	Size of measuring surface	Indicating instrument (included in package)
		inch	inch	inch		
2050446	22P-11	0 – .10"	1.13"	.0001"	6.3mm / 0.25inch Steel Contacts	Integral Indicator (22IN-RC dial)
2050447	22P-15	0 – .50"	2"	.001"	6.3mm / 0.25inch Steel Contacts	Integral Indicator (28IQN dial)
2050449	22P-20	0 – 1"	2"	.001"	6.3mm / 0.25inch Steel Contacts	Integral Indicator (28ISN dial)

Technical Data

Order no.	Product type	Measuring range	Throat depth	Graduation value	Size of measuring surface	Indicating instrument (included in package)
		mm	mm	mm		
2050445	22P-10M	0 – 2.54	28.6	0.002	6.3mm / 0.25inch Steel Contacts	Integral Indicator (P11-RC dial)
2050448	22P-15M	0 – 12.7	50	0.01	6.3mm / 0.25inch Steel Contacts	Integral Indicator (26I-RC dial)
2050450	22P-20M	0 – 25	50	0.01	6.3mm / 0.25inch Steel Contacts	Integral Indicator (26I-RC dial)

Accessories

Order no.	Product name	Product type
2003150	Base/Bench Stand for 300P or 1000P style Snap Gage	BA-26



Portable Thickness Gages MaraMeter 26P-7

- Push-down movement
- Molded body fits shape of hand
- Built-in indicator
- Gage is normally open for easy part entry
- Push-down button to close the contacts
- Rugged and compact for roving inspection
- 6.3 mm / .25" diameter, flat steel contacts
- **Scope of delivery:** Includes Indicator



Application:

Thickness Measurement of small parts from 0 to .300 inch

Technical Data

Order no.	Product type	Measuring range	Jaw depth	Graduation value	Size of measuring surface	Indicating instrument (included in package)
2050481	26P-7	inch 0 – .30"	inch .63"	inch .001"	6.3mm / 0.25inch diameter	Integral Indicator (28IN-RC dial)

Technical Data

Order no.	Product type	Measuring range	Throat depth	Resolution	Graduation value	Size of measuring surface	Measuring surface ø	Probe path	Indicating instrument (included in package)
2050482	26P-7M	mm 0 – 7.6	mm 16	mm 0.01	mm 0.01	6.3mm / 0.25inch diameter	mm 6.3	mm 2.5	Integral Indicator (26I-RC dial)



Portable Thickness Gages MaraMeter XLI-57B-15



Application:

Precision Thickness Measurement requiring dead weight load force

- Solid casting with ribbed frame provides strength and rigidity for accurate measurements
- 0.003 mm / .0001" parallelism with tables up to 19 mm / .75" diameter
- 283 g / 10 oz. dead load weight for constant gaging pressure
- 10 mm / .407" diameter flat upper 54.0 mm / 2.125" lower contacts
- Indicator mounts with adjustable back for quick positioning for each gaging requirement
- Gage is supplied with a lift lever so work can be easily placed between the table and contact
- Four-inch throat depth for part clearance
- **Data interface:** Digimatic, RS232C, USB, Integrated wireless
- **Energy supply:** Battery operation
- **Scope of delivery:** Includes Indicator

Technical Data

Order no.	Product type	Measuring range		Throat depth		Resolution		Indicating instrument (included in package)	Parallelism deviation		Measuring force
		mm	inch	mm	inch	mm	inch		µm	inch	
2057551	XLI-57B-15	0-25	0-1"	102	4"	0.0005, 0.001, 0.002, 0.005, 0.01	.00002", .00005", .0001", .0002", .0005"	4337628 (1086Ri)	3	.0001"	283gm / 10oz dead weight



Portable Thickness Gages MaraMeter 57B-14 / 57B-15

- Solid casting with ribbed frame provides strength and rigidity for accurate measurements
- 0.003 mm / .0001" parallelism with tables up to 19 mm / .75" diameter
- 283 g / 10 oz. dead load weight for constant gaging pressure
- 10 mm / .407" diameter flat upper 54.0 mm / 2.125" lower contacts
- Indicator mounts with adjustable back for quick positioning for each gaging requirement
- Gage is supplied with a lift lever so work can be easily placed between the table and contact
- Four-inch throat depth for part clearance
- **Data interface:** none
- **Scope of delivery:** Includes Indicator



Application:

Precision Thickness Measurement requiring dead weight load force

Technical Data

Order no.	Product type	Measuring range	Throat depth	Graduation value	Indicating instrument (included in delivery)	Parallelism deviation	Measuring force
		inch	inch	inch		µm	N
2050982	57B-14	0 – .10"	4"	.0001"	IDT-340 Indicator (32I-RC)	3	2.8
2050984	57B-15	0 – 1"	4"	.001"	IDS-341 Indicator (D8IS)		2.8

Technical Data

Order no.	Product type	Measuring range	Throat depth	Resolution	Graduation value	Indicating instrument (included in package)	Measuring force
		mm	mm	mm	mm		N
2050983	57B-14M	0 – 2.5	102	0.002	0.002	IDS-342 Indicator (Q1I-RC)	2.8
2050985	57B-15M	0 – 25	102	0.01	0.01	IDS-343 Indicator (SQ6IS)	2.8



Portable Thickness Gages MaraMeter XLI-57B-13



Application:

For checking wall thickness of wire insulation and other small-diameter tubular parts

- Using the basic design of the Model 57B-13 (Model 57B-13M — Metric) Gage, the lower contact is PT-103, 1.10 mm / .043" diameter rod, mounted horizontally
- The upper contact is a flat chisel contact, in line with the rod
- By slipping tubular parts onto the lower contact, the gage can measure the thickness of the wall of the tube
- An auxiliary weight on the Indicator provides a total dead-load weight of 25 grams
- (Replacement lower rod: PS-43)
- **Data interface:** Digimatic, Opto RS232C, USB, Integrated wireless
- **Energy supply:** Battery operation
- **Scope of delivery:** Includes Indicator

Technical Data

Order no.	Product type	Measuring range		Throat depth		Resolution		Indicating instrument (included in package)	Measuring force N
		mm	inch	mm	inch	mm	inch		
2057550	XLI-57B-13	0 – 7.62	0 – .30"	102	4"	0.0005, 0.001, 0.002, 0.005, 0.01	.00002", .00005", .0001", .0002", .0005"	4337628 (1086Ri)	0.25

Accessories

Order no.	Product name	Product type
2225698	Replacement rod for PT-103 Pin, 0.043" diameter 0.687" length	PS-43
2225741	Pin, Ø=1.10mm / .043", lower contact 1.10 mm / 0.043" diameter pin, lower contact assembly	PT-103
2225869	Pin, Ø=0.05mm / .02", lower contact 0.050 mm / 0.020 in diameter pin, lower contact assembly	PT-2245



Portable Thickness Gages MaraMeter 57B-13

- Using the basic design of the Model 57B-13 (Model 57B-13M — Metric) Gage, the lower contact is PT-103, 1.10 mm / .043" diameter rod, mounted horizontally
- The upper contact is a flat chisel contact, in line with the rod
- By slipping tubular parts onto the lower contact, the gage can measure the thickness of the wall of the tube
- An auxiliary weight on the Indicator provides a total dead-load weight of 25 grams
- (Replacement lower rod: PS-43)
- **Data interface:** none
- **Scope of delivery:** Includes Indicator



Application:

For checking wall thickness of wire insulation and other small-diameter tubular parts

Technical Data

Order no.	Product type	Measuring range	Throat depth	Jaw depth	Graduation value	Indicating instrument (included in package)	Measuring force
		inch	mm	inch	inch		N
2050980	57B-13	0 – .30"	102	4"	.0005"	IDS-116 Indicator (25M-RC)	0.25

Technical Data

Order no.	Product type	Measuring range	Throat depth	Graduation value	Indicating instrument (included in package)	Measuring force
		mm	mm	mm		N
2050981	57B-13M	0 – 7.6	102	0.01	IDS-287 Indicator (26I-RC)	0.25

Accessories

Order no.	Product name	Product type
2225698	Replacement rod for PT-103 Pin, 0.043" diameter 0.687" length	PS-43
2225741	Pin, Ø=1.10mm / .043", lower contact 1.10 mm / 0.043" diameter pin, lower contact assembly	PT-103
2225869	Pin, Ø=0.05mm / .02", lower contact 0.050 mm / 0.020 in diameter pin, lower contact assembly	PT-2245



Portable Thickness Gages MaraMeter EMD-57B-11 / EMD-57B-11D / XLI-57B-11 / XLI-57B-12



Application:

Precision Thickness Measurement

- Solid casting with ribbed frame provides strength and rigidity for accurate measurements
- Gage is furnished with a lift lever so work can be easily placed between the contacts
- Large 54 mm/ 2.125" diameter lower anvil provides convenient stage for small parts or flat materials
- 4.75 mm/ .187" diameter radiused upper contact normally provided
- 102 mm/ 4" throat depth for part clearance
- Indicator mounts with adjustable back for quick positioning for each gaging requirement
- Available with Dial Indicator or Digital Electronic Indicator
- **Data interface:** none
- **Energy supply:** Battery operation
- **Scope of delivery:** Includes Indicator

Technical Data

Order no.	Product type	Measuring range		Throat depth	Jaw depth	Resolution		Indicating instrument (included in package)
		mm	inch			mm	inch	
2051884	EMD-57B-11	0 -21.5	0 -1"	102	4"	0.0005, 0.001, 0.005	.00002", .00005", .0001", .0005"	2033101 Maxµm III
2051885	EMD-57B-11D	0 -21.5	0 -1"	102	4"	0.0005, 0.001, 0.005	.00002", .00005", .0001", .0005"	2033111 Maxµm III
2057548		0 -25		102	4"	0.0005, 0.001, 0.002, 0.005, 0.01	.00002", .00005", .0001", .0002", .0005"	4337651 (1086ZR)
2057549		0 -12.5		102	4"	0.0005, 0.001, 0.002, 0.005, 0.01	.00002", .00005", .0001", .0002", .0005"	4337650 (1086 ZR)



Portable Thickness Gages MaraMeter 57B-11 / 57B-12

- Solid casting with ribbed frame provides strength and rigidity for accurate measurements
- Gage is furnished with a lift lever so work can be easily placed between the contacts
- Large 54 mm/ 2.125" diameter lower anvil provides convenient stage for small parts or flat materials
- 4.75 mm/ .187" diameter radiused upper contact normally provided
- 102 mm/ 4" throat depth for part clearance
- Indicator mounts with adjustable back for quick positioning for each gaging requirement
- Available with Dial Indicator or Digital Electronic Indicator
- **Data interface:** none
- **Scope of delivery:** Includes Indicator



Application:

Precision Thickness Measurement

Technical Data

Order no.	Product type	Measuring range	Throat depth	Throat depth	Graduation value	Indicating instrument (included in package)
		inch	mm	inch	inch	
2050976	57B-11	0 - 1"	102	4"	.001"	IDS-160 Indicator (D8IS)
2050978	57B-12	0 - .50"	102	4"	.0005"	IDS-161 Indicator (D7I-RC)

Technical Data

Order no.	Product type	Measuring range	Throat depth	Graduation value	Indicating instrument (included in delivery)
		mm	mm	mm	
2050977	57B-11M	0 - 25	102	0.01	IDS-285 Indicator (SQ6IS)
2050979	57B-12M	0 - 12.5	102	0.01	IDS-286 Indicator (SQ6I)

Gage for external measurement MaraMeter 49P-17M / 49P-19M / 49P-1M / 49P-2M



- Generous clearance on jaws reaches over non-measured part protrusions for easy access to areas where thickness must meet critical dimensional specs
 - Retraction lever is conveniently located for one-hand operation
 - 0.02 mm or 0.1 mm / .01", .001", or 1/64" grads. available
 - Continuous reading dials with revolution counters normally provided
 - Cylindrical radius steel contact tips normally furnished
- Data interface:** none
- Scope of delivery:** Includes Indicator

Application:

The most widely used gages for checking medium tolerance dimensions on patterns, castings, forgings, dies, sheet metal

Technical Data

Order no.	Product type	Measuring range	Throat depth	Graduation value	Indicating instrument (included in package)	Measuring depth	Measuring force
		mm	mm	mm		mm	N
2050704	49P-17M	0-50	100	0.02	IDS-305 Indicator (P11-RC)	100	-
2050709	49P-19M	0-50	200	0.02	IDS-305 Indicator (P11-RC)	200	-
2050710	49P-1M	0-75	100	0.1	IDS-306 Indicator (26I-RC)	100	-
2050718	49P-2M	0-75	200	0.1	IDS-309 Indicator (23I-RC)	200	-

Technical Data

Order no.	Product type	Measuring range	Graduation value	Indicating instrument (included in delivery)	Measuring depth
		inch	inch		inch
2050702	49P-17	0-2"	.001"	IDT-167 Indicator (22IN-RC)	4"
2050706	49P-19	0-2"	.001"	IDT-167 Indicator (22IN-RC)	8"
2050696	49P-1	0-3"	.01"	IDS-168 Indicator (28IN-RC)	4"
2050711	49P-2	0-3"	.01"	IDS-168 Indicator (28IN-RC)	8"

Order no.	A	B	A	B
	mm	mm	inch	inch
2050704	31.75	31.75		
2050709	65.09	50.80		
2050710	31.75	31.75		
2050718	65.09	50.80		
2050702			1.25	1.25
2050706			2.5625	2
2050696			1.25	1.25
2050711			2.5625	2

Gege for External Measurement MaraMeter 838 TA



- Contact points are made of carbide
- Absolute measuring instrument
- Easy to read tolerance markers
- **IP protection category:** IP 65
- **Scope of delivery:** Test certificate



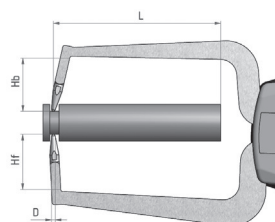
Application:

- For measuring thicknesses and wall thicknesses
- Easy to operate

Technical Data

Order no.	Product type	Measuring range	Graduation value	Measuring depth	Error limit	Repeatability	Dimension L	Diameter of measuring contact ball	Measuring force
		mm	mm	mm	mm	mm	mm	mm	N
4495550	838 TA	0 – 10	0.005	35	0.015	0.005	35	1.5	0.8 – 1.2
4495551	838 TA	0 – 20	0.01	85	0.03	0.01	85	1.5	1.1 – 1.6
4495552	838 TA	0 – 20	0.01	85	0.03	0.01	85	1.5	1.1 – 1.6
4495555	838 TA	0 – 50	0.05	167	0.05	0.025	167	3	0.8 – 1.7
4495556	838 TA	0 – 50	0.05	169	0.05	0.025	169	3	0.8 – 1.7

Order no.	D	Hb	Hf	Dimension L
	mm	mm	mm	mm
4495550	1.5	19.1	18.6	35
4495551	1.5	24.6	24.6	85
4495552	1.5	24.6	2.5	85
4495555	3	30	30	167
4495556	3	30	4.3	169





Gege for External Measurement MaraMeter 838 TAZ



- Contact points are made of carbide
- Absolute measuring instrument
- Easy to read tolerance markers
- **IP protection category:** IP 65
- **Scope of delivery:** Test certificate

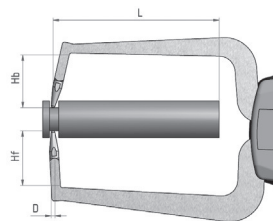
Application:

- For measuring thicknesses and wall thicknesses
- Easy to operate

Technical Data

Order no.	Product type	Measuring range	Graduation value	Error limit	Repeatability	L	Measuring contact ball diameter	Measuring force
		inch	inch	inch	inch	inch	inch	N
4495950	838 TAZ	0 – .40"	.0002"	.0008"	.0002"	1.37"	.6"	0.8 – 1.2
4495951	838 TAZ	0 – .80"	.0005"	.0015"	.0005"	3.2"	.6"	1.1 – 1.6
4495952	838 TAZ	0 – .80"	.0005"	.0015"	.0005"	3.2"	.6"	1.1 – 1.6
4495955	838 TAZ	0 – 2.0"	.001"	.002"	.001"	6.6"	.12"	0.8 – 1.7
4495956	838 TAZ	0 – 2.0"	.001"	.002"	.001"	6.7"	.12"	0.8 – 1.7

Order no.	D	Hb	Hf	L
	inch	inch	inch	inch
4495950	.6"	.75"	.75"	1.37"
4495951	.6"	.97"	.97"	3.2"
4495952	.6"	.97"	.097"	3.2"
4495955	.12"	1.18"	1.18"	6.6"
4495956	.12"	1.18"	.17"	6.7"



Electronic Gage for External Measurement MaraMeter 838 EA



Functions:

- ON/OFF
- mm/inch
- TOL (enter tolerance limit values)
- ABS (display can be set to zero without losing reference to preset)
- DATA (Data transmission via connection cable)
- High contrast analog and digital LCD
- Tolerance is displayed with 2 LEDs
- **Data interface:** Digimatic, USB
- **Energy supply:** Battery operation (2x 1.5V AAA)
- **IP protection category:** IP 67
- **Scope of delivery:** Instruction manual, Battery, Test certificate



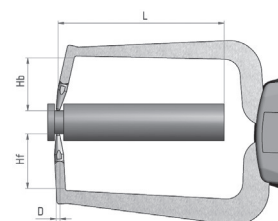
Application:

- Specified measuring programs according to application
- Absolute/Relative measuring program

Technical Data

Order no.	Product type	Graduation value	Measuring depth	Error limit	Repeatability	Dimension L	Diameter of measuring contact ball	Measuring force
		mm	mm	mm	mm	mm	mm	N
4495560	838 EA	0.005	35	0.015	0.005	35	1.5	0.8 – 1.2
4495561	838 EA	0.01	85	0.03	0.01	85	1.5	1.1 – 1.6
4495562	838 EA	0.01	85	0.03	0.01	85	1.5	1.1 – 1.6
4495563	838 EA	0.02	116	0.04	0.02	116	3	0.9 – 1.6
4495564	838 EA	0.02	167	0.06	0.04	167	3	0.8 – 1.7
4495565	838 EA	0.02	116	0.04	0.02	116	3	0.9 – 1.6
4495566	838 EA	0.02	169	0.06	0.04	169	3	0.8 – 1.7

Order no.	D	Hb	Hf	Dimension L
	mm	mm	mm	mm
4495560	1.5	19.1	18.6	35
4495561	1.5	24.6	24.6	85
4495562	1.5	24.6	2.5	85
4495563	3	30	30	116
4495564	3	30	30	167
4495565	3	30	4	116
4495566	3	30	4.3	169



Accessories

Order no.	Product name	Product type
4495079	Data Connection Cable USB (1.5 m)	838 usb
4495083	Digimatic data cable (1.5 m)	838 di (A)



Gage for Internal Measurement MaraMeter 838 TI



- Contact points are made of carbide
- Absolute measuring instrument
- Easy to read tolerance markers
- **IP protection category:** IP 65
- **Scope of delivery:** Test certificate

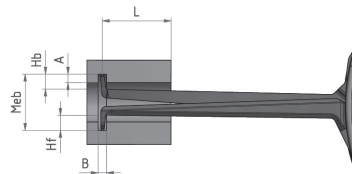
Application:

- For measuring bores and internal grooves
- Easy to operate

Technical Data

Order no.	Product type	Measuring range	Graduation value	Measuring depth	Error limit	Repeatability	groove depth	Groove width	Dimension L	Diameter of measuring contact ball	Measuring force
		mm	mm	mm	mm	mm	mm	mm	mm	mm	N
4495580	838 TI	5 – 15	0.005	35	0.015	0.005	2.3	0.8	35	0.6	0.8 – 1.2
4495581	838 TI	10 – 30	0.01	85	0.03	0.01	5.2	1.2	85	1	1.1 – 1.6
4495582	838 TI	20 – 40	0.01	85	0.03	0.01	7	1.2	85	1	1.1 – 1.6
4495583	838 TI	30 – 50	0.01	85	0.03	0.01	7	1.2	85	1	1.1 – 1.6
4495584	838 TI	40 – 60	0.01	85	0.03	0.01	8.3	1.2	85	1	1.1 – 1.6
4495585	838 TI	50 – 70	0.01	85	0.03	0.01	8.3	1.2	85	1	1.1 – 1.6
4495586	838 TI	15 – 65	0.05	188	0.05	0.025	5.5	1.9	188	1.5	0.9 – 1.9
4495587	838 TI	40 – 90	0.05	192	0.05	0.025	8.3	2.4	192	2	0.9 – 1.9

Order no.	A	B	D	Hb	Hf	Dimension L
	mm	mm	mm	mm	mm	mm
4495580	2.3	0.80	0.6	2.5	2.5	35
4495581	5.2	1.20	1	5.4	5.4	85
4495582	7	1.20	1	7.3	7.3	85
4495583	7	1.20	1	7.3	7.3	85
4495584	8.3	1.20	1	12.2	12.2	85
4495585	8.3	1.20	1	12.2	12.2	85
4495586	5.5	1.90	1.5	6	6	188
4495587	8.3	2.40	2	8.5	8.5	192



Gage for Internal Measurement MaraMeter 838 TIZ



- Contact points are made of carbide
- Absolute measuring instrument
- Easy to read tolerance markers
- **IP protection category:** IP 65
- **Scope of delivery:** Test certificate



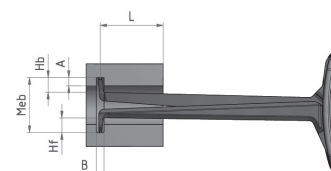
Application:

- For measuring bores and internal grooves
- Easy to operate

Technical Data

Order no.	Product type	Measuring range	Graduation value	Error limit	Repeatability	L	Measuring contact ball diameter	Measuring force
		inch	inch	inch	inch	inch	inch	N
4495980	838 TIZ	.20 – .60"	.0002"	.0008"	.0002"	1.37"	.024"	0.8 – 1.2
4495981	838 TIZ	.40 – 1.20"	.0005"	.0015"	.0005"	3.2"	.04"	1.1 – 1.6
4495982	838 TIZ	.80 – 1.60"	.0005"	.0015"	.0005"	3.2"	.04"	1.1 – 1.6
4495983	838 TIZ	1.20 – 2.00"	.0005"	.0015"	.0005"	3.2"	.04"	1.1 – 1.6
4495984	838 TIZ	1.60 – 2.40"	.0005"	.0015"	.0005"	3.2"	.04"	1.1 – 1.6
4495985	838 TIZ	2.00 – 2.80"	.0005"	.0015"	.0005"	3.2"	.04"	1.1 – 1.6
4495986	838 TIZ	.60 – 2.60"	.001"	.002"	.001"	7.5"	.06"	0.9 – 1.9
4495987	838 TIZ	1.60 – 3.60"	.001"	.002"	.001"	7.6"	.08"	0.9 – 1.9

Order no.	Dimension A	Dimension B	D	Hb	Hf	L
	inch	inch	inch	inch	inch	inch
4495980	.09"	.032"	.024"	.97"	.97"	1.37"
4495981	.19"	.06"	.04"	.21"	.21"	3.2"
4495982	.26"	.08"	.04"	.29"	.29"	3.2"
4495983	.26"	.08"	.04"	.29"	.29"	3.2"
4495984	.31"	.08"	.04"	.33"	.33"	3.2"
4495985	.31"	.08"	.04"	.33"	.33"	3.2"
4495986	.2"	.08"	.06"	.25"	.25"	7.5"
4495987	.2"	.1"	.08"	.33"	.33"	7.6"





Electronic Gage for Internal Measurement MaraMeter 838 EI



- **Functions:**
- ON/OFF
- mm/inch
- ABS (display can be set to zero without losing reference to preset)
- TOL (enter tolerance limit values)

- High contrast analog and digital LCD
- Tolerance is displayed with 2 LEDs
- **Data interface:** Digimatic, USB
- **Energy supply:** Battery operation (2x 1.5V AAA)
- **IP protection category:** IP 67
- **Scope of delivery:** Instruction manual, Battery, Test certificate

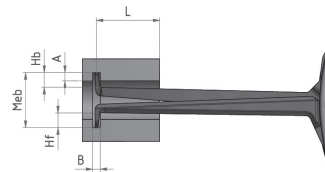
Application:

- Specified measuring programs according to application
- Absolute/Relative measuring program

Technical Data

Order no.	Product type	Graduation value	Measuring depth	Measuring Error limit	Repeatability	groove depth	Groove width	Dimension L	Diameter of measuring contact ball	Measuring force
		mm	mm	mm	mm	mm	mm	mm	mm	N
4495590	838 EI	0.005	35	0.015	0.005	2.3	0.8	35	0.6	0.8–1.2
4495591	838 EI	0.01	85	0.03	0.01	5.2	1.2	85	1	1.1–1.6
4495592	838 EI	0.01	85	0.03	0.01	7	1.2	85	1	1.1–1.6
4495593	838 EI	0.01	85	0.03	0.01	7	1.2	85	1	1.1–1.6
4495594	838 EI	0.01	85	0.03	0.01	8.3	1.2	85	1	1.1–1.6
4495595	838 EI	0.01	85	0.03	0.01	8.3	1.2	85	1	1.1–1.6
4495598	838 EI	0.02	127	0.04	0.02	5.7	1.6	127	1.3	1.2–1.7
4495599	838 EI	0.02	132	0.04	0.02	6.2	1.8	132	1.5	1.2–1.7
4495600	838 EI	0.02	132	0.04	0.02	8.3	2.4	132	2	1.2–1.7

Order no.	A	B	D	Hb	Hf	Dimension L
	mm	mm	mm	mm	mm	mm
4495590	2.3	0.80	0.6	2.5	2.5	35
4495591	5.2	1.20	1	5.4	5.4	85
4495592	7	1.20	1	7.3	7.3	85
4495593	7	1.20	1	7.3	7.3	85
4495594	8.3	1.20	1	12.2	12.2	85
4495595	8.3	1.20	1	12.2	12.2	85
4495598	5.7	1.60	1.3	5.7	5.7	127
4495599	6.2	1.80	1.5	6.5	6.5	132
4495600	8.3	2.40	2	8.5	8.5	132



Accessories

Order no.	Product name	Product type
4495079	Data Connection Cable USB (1.5 m)	838 usb
4495083	Digimatic data cable (1.5 m)	838 di (A)

MaraMeter 837



- Large measuring bridge hardened and chrome plated surface
- Plan grinded Measuring surface
- Holder for dial indicators with \varnothing 8 mm shank



Technical Data

Order no.		4494010	4494011	4494012
Product type			837	
Length of base	mm	80	100	150
Width of base	mm		16	20

Accessories

Order no.	Product name	Product type
4311060	Precision Dial Indicator, 0.01 mm, 10 mm	810 AT
4336010	Digital Indicator, 0.01 mm, 12.5 mm	1075 R
4337131	Digital Indicator, 0.01 mm, 25 mm	1086 R
4360015	Spherical contact point, Steel, l = 25 mm, r = 6 mm	902
4360017	Spherical contact point, Steel, l = 35 mm, r = 6 mm	902
4360026	Spherical contact point, Steel, l = 45 mm, r = 6 mm	902
4360031	Spherical contact point, Steel, l = 55 mm, r = 6 mm	902
4360035	Spherical contact point, Steel, l = 65 mm, r = 6 mm	902
4360020	Spherical contact point, Steel, l = 75 mm, r = 6 mm	902
4360036	Spherical contact point, Steel, l = 85 mm, r = 6 mm	902
4360029	Spherical contact point, Steel, l = 95 mm, r = 6 mm	902



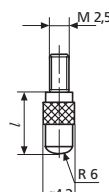
810 AT



1075 R



1086 R; 1086 ZR



902; 902 H

Indicating depth gage with needle contact and V-shaped base MaraMeter 65P-40



- V-shaped base and needle contact
- Movement is Push-Down style
- **Data interface:** none
- **Scope of delivery:** Includes Indicator

Application:

Ideal for measuring etch depth, pits, or small, shallow recesses

Technical Data

Order no.	2051075	
Product type		65P-40
Length of base	inch	2.5"
Measuring range	inch	0 – .075"
Graduation value	inch	.0005"
Indicating instrument (included in package)		IDS-163 Indicator (25M-RC)

Technical Data

Order no.	2051076	
Product type		65P-40M
Length of base	mm	64
Measuring range	mm	0 – 2
Resolution	mm	0.01
Graduation value	mm	0.01
Indicating instrument (included in package)		IDS-319 Indicator (26I-RC)



Indicating Depth Gage MaraMeter 75P-30

- Rectangular, flat base and radiused contact point
- Supplied with contact point for measuring depths from the base as a reference
- Contact points for other depths are available upon request
- **Data interface:** none
- **Scope of delivery:** Indicator, Spherical measuring anvil (3 mm/0.13")



Application:

Shallow Depth Measurement

Technical Data

Order no.	2051088	
Product type		75P-30
Length of base	mm	64
Length of base	inch	2.5"
Width of base	mm	14
Width of base	inch	.56"
Measuring range	inch	0 – .150"
Graduation value	inch	.0005"
Indicating instrument (included in package)		Special Indicator (25M-RC dial)

Technical Data

Order no.	2051089	
Product type		75P-30M
Length of base	mm	64
Length of base	inch	2.5"
Width of base	mm	14
Width of base	inch	.75"
Measuring range	mm	0 – 4
Resolution	mm	0.01
Graduation value	mm	0.01
Indicating instrument (included in package)		Special Indicator (26I-RC dial)



- Depth Gages have three interchangeable contact points, allowing inspection of depths to 76 mm / 3"
- Check depths against a setting
- **Data interface:** none
- **Scope of delivery:** Indicator, Spherical measuring anvils (3 / 28 / 54 mm; 0.13" / 1.13" / 2.13")

Application:

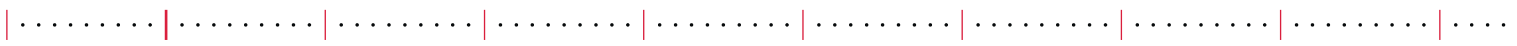
Deep Depth Measurement

Technical Data

Order no.		2051090
Product type		75P-35
Length of base	mm	64
Length of base	inch	2.5"
Width of base	mm	14
Width of base	inch	.75"
Measuring range	inch	0 - 3"
Graduation value	inch	.001"
Indicating instrument (included in package)		(28ISN) dial

Technical Data

Order no.		2051091
Product type		75P-35M
Length of base	mm	64
Length of base	inch	2.5"
Width of base	mm	14
Width of base	inch	.75"
Measuring range	mm	0 - 75
Resolution	mm	0.01
Graduation value	mm	0.01
Indicating instrument (included in package)		SP6IS dial





- Single and multi-purpose bases with choice of comparative or direct measurement indicators
- Collet mounting allows for interchanging indicators and bases to meet a wide range of requirements
- Wide range of contact points available to cover any depth measurement
- Setting masters available with anvil ground to specified depth (accuracy $\pm 2.5\mu\text{m}/\pm .0001''$)



Application:

Modular Depth Gage for all applications

Technical Data

Order no.		2051092	2051094	2051096	2051098	2051100	2051102	2051104
Product type		75P-50	75P-51	75P-52	75P-53	75P-54	75P-55	75P-56
Length of base	inch	2"	3"	4"	6"	8"		
Width of base	inch			.75"				
Base diameter	inch						.75"	1.25"
Measuring range	inch				.075"			
Measuring positions		1	2		3		1	
Graduation value	inch				.0005"			
Indicating instrument (included in package)		IDS-171 Indicator (25M) -Comparative						

Technical Data

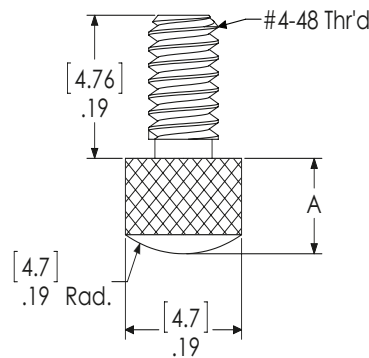
Order no.		2051093	2051095	2051097	2051099	2051101	2051103	2051105
Product type		75P-50M	75P-51M	75P-52M	75P-53M	75P-54M	75P-55M	75P-56M
Length of base	mm	50	76	102	152	203		
Width of base	mm			19				
Base diameter	mm						19	32
Measuring range	mm				2,50			
Measuring positions		1	2		3		1	
Resolution	mm				0.01			
Graduation value	mm				0.01			
Indicating instrument (included in package)		IDS-284 Indicator (26I) -Comparative						



MaraMeter 75P-50M / 75P-51M / 75P-52M / 75P-53M / 75P-54M / 75P-55M / 75P-56M

Accessories

Order no.	Product name	Product type	Measuring depth	Measuring depth
			mm	inch
2225799	Standard measuring anvil, spherical, A = 7/8"	PT-201	0 -1,60	0 - .063"
2225885	Standard measuring anvil, spherical, A = 1"	PT-232	1,60 -4,80	.063 - .188"
2225900	Standard measuring anvil, spherical, A = 1-1/8"	PT-305	4,80 -8	.188 - .313"
2225975	Standard measuring anvil, spherical, A = 1-1/4"	PT-565	8 -11	.313 - .438"
2225888	Standard measuring anvil, spherical, A = 1-3/8"	PT-239	11 -14	.438 - .563"
2225933	Standard measuring anvil, spherical, A = 1-1/2"	PT-50	14 -17,50	.563 - .688"
2225887	Standard measuring anvil, spherical, A = 1-5/8"	PT-235	17,50 -21	.688 - .813"
2225890	Standard measuring anvil, spherical, A = 1-3/4"	PT-241	21 -24	.813 - .938"
2225738	Standard measuring anvil, spherical, A = 1-7/8"	PT-100	24 -27	.938 -1.063"
2225934	Standard measuring anvil, spherical, A = 2"	PT-51	27 -30	1.063 -1.188"
2225891	Standard measuring anvil, spherical, A = 2-1/8"	PT-243	30 -33,40	1.188 -1.313"
2225986	Standard measuring anvil, spherical, A = 2-1/4"	PT-696	33,40 -37	1.313 -1.438"
2225739	Standard measuring anvil, spherical, A = 2-3/8"	PT-101	37 -40	1.438 -1.563"
2225892	Standard measuring anvil, spherical, A = 2-1/2"	PT-245	40 -43	1.563 -1.688"
2225740	Standard measuring anvil, spherical, A = 2-5/8"	PT-102	43 -46	1.688 -1.813"
2225976	Standard measuring anvil, spherical, A = 2-3/4"	PT-566	46 -49	1.813 -1.938"
2225893	Standard measuring anvil, spherical, A = 2-7/8"	PT-247	49 -52,4	1.938 -2.063"



MaraMeter EMD-75B-1 / EMD-75B-1D / 2057552 (XLI-75B-1) / 2057553 (XLI-75B-2)



- Available with Dial Indicator (75B-1 Models) or Maxum®III and μMaxum®II Digital Electronic Indicators (EMD-75B and XLI-75B Models)
- 89 x 102 mm / 3.50 x 4" hardened, ground work surface provides excellent reference surface
- Four #10-32 tapped holes provided for mounting part location fixturing
- Indicator vertically adjustable over 32 mm / 1.25"
- Two contact points provided, 6 mm / .25" and 32 mm / 1.25" to check features up to 50 mm / 2" deep
- **Data interface:** none
- **Energy supply:** Battery operation



Application:

Depth Measurement Inspection of small to medium parts

Technical Data

Order no.		2051888	2051889	2057552	2057553
Measuring surface		hardened steel			
Product type		EMD-75B-1	EMD-75B-1D	(XLI-75B-1)	(XLI-75B-2)
Length of base	mm	102			
Length of base	inch	4"			
Width of base	mm	89			
Width of base	inch	3.5"			
Measuring range	mm			0-25	0-12,5
Measuring range	inch			0-1"	0-.5"
Resolution	mm	0.0005, 0.001, 0.005		0.0005, 0.001, 0.002, 0.005, 0.01	
Resolution	inch	.00002", .00005", .0001", .0005"		.00002", .00005", .0001", .0002", .0005"	
Indicating instrument (included in package)		2033201 MaxumIII	2033211 MaxumIII	4337651 (1086 ZR)	4337650 (1086 ZR)
Measuring depth	mm			50	38
Measuring depth	inch			2"	1.5"



Application:

Depth Measurement Inspection of small to medium parts

- Available with Dial Indicator (75B-1 Models) or Maxµm@III and µMaxµm@II Digital Electronic Indicators (EMD-75B and XLI-75B Models)
- 89 x 102 mm / 3.50 x 4" hardened, ground work surface provides excellent reference surface
- Four #10-32 tapped holes provided for mounting part location fixturing
- Indicator vertically adjustable over 32 mm / 1.25"
- Two contact points provided, 6 mm / .25" and 32 mm / 1.25" to check features up to 50 mm / 2" deep

Technical Data

Order no.		2051077	
Measuring surface		hardened steel	
Product type		75B-1	
Length of base	mm	102	
Length of base	inch	4"	
Width of base	mm	89	
Width of base	inch	3.5"	
Measuring range	inch	0 - 1"	
Graduation value	inch	.001"	
Indicating instrument (included in delivery)		IDS-152 Indicator (28ISN)	
Measuring depth	mm	25	
Measuring depth	inch	2"	



MaraMeter 75B-1M

- Available with Dial Indicator (75B-1 Models) or Maxum®III and μMaxum®II Digital Electronic Indicators (EMD-75B and XLI-75B Models)
- 89 x 102 mm / 3.50 x 4" hardened, ground work surface provides excellent reference surface
- Four #10-32 tapped holes provided for mounting part location fixturing
- Indicator vertically adjustable over 32 mm / 1.25"
- Two contact points provided, 6 mm / .25" and 32 mm / 1.25" to check features up to 50 mm / 2" deep



Application:

Depth Measurement Inspection of small to medium parts

Technical Data

Order no.	2051078	
Measuring surface		hardened steel
Product type		75B-1M
Length of base	mm	102
Length of base	inch	4"
Width of base	mm	89
Width of base	inch	3.5"
Measuring range	mm	0 -25
Resolution	mm	0.01
Graduation value	mm	0.01
Indicating instrument (included in package)		IDS-310 Indicator (SP6IS)
Measuring depth	mm	25



Dimentron® Plug Gages

The Dimentron® System - Built for Performance



Dimentron® Plug Assembly — shown with Maxum® III Indicator, Housing and Handle

The Dimentron plug gage, which makes up the plug body, the panto-assembly, its contacts and transfer rod, is the measuring system comprising the Dimentron plug. It can be interchanged by simply unscrewing it from the display assembly.

The **plug body** is made of tough hardened 440 stainless steel, tempered and ground. Introduction into the bore is facilitated with 52-56 HRC hardness guide.

Standard **contacts** are made of tungsten carbide and based on the bore diameter range, come in two possible radii. Other contact materials are available based on the part being measured. Diamond, Ruby or hard-chrome-covered contacts are also available. Diamond or ruby contacts are suggested for soft aluminum or highly wearing applications; hard chromed ones (1000 HV) for aluminum and relevant alloys. Also based on the thickness of the surface, cylindrical contacts options are available.

Either 2 or 4 steel spring assemblies **form panto-spring assemblies**. The design of the transfer assembly is determined by the diameter of the plug. This panto-design produces true straight-line transfer to the V-rod.

A **transfer rod**, with spherical tungsten carbide tip, slides on a tempered steel V-shaped guide and inclined plane, transferring the measurement to the display device. This unique floating system has been designed and tested to resist for over 10,000,000 measuring cycles.

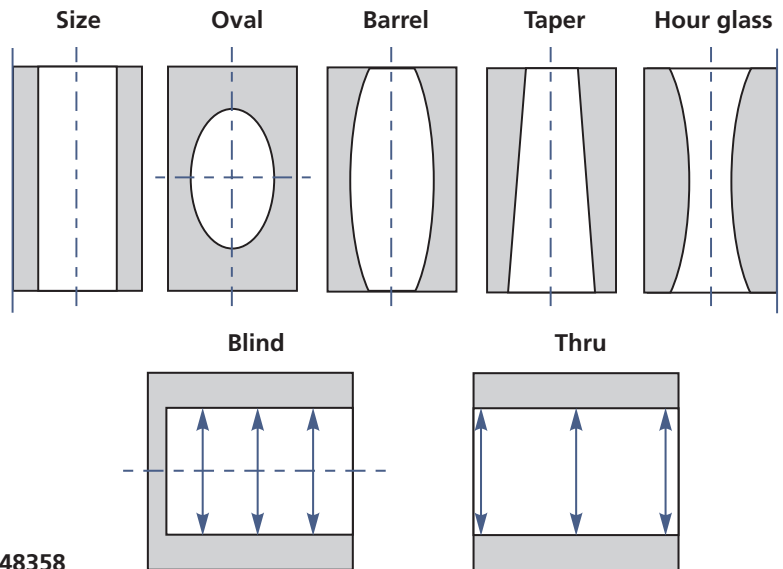
Though designed for the toughest shop conditions, wear items do occasionally need replacement. Because of the individual components **service is fast and easy**. All parts are available separately from Mahr and with standard tools, can be replaced in minutes to help maintain up time on the floor.



Special depth gaging applications



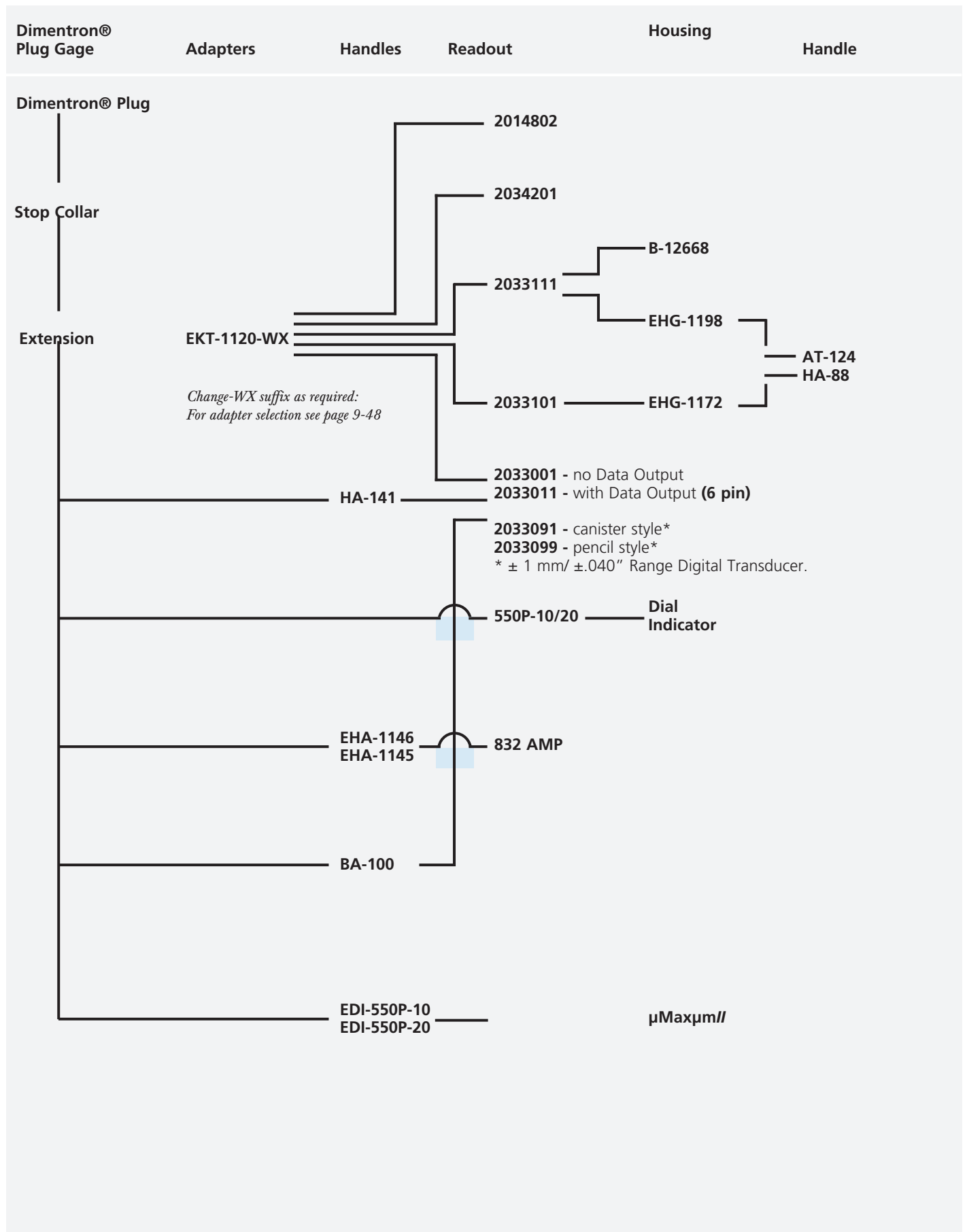
Shown with bench stand 2239307 & plug holder 2248358





Dimentron® Plug Inside Diameter Gages

The following table depicts available readouts for Dimentron® Plug Inside Diameter Gages. After making a Plug selection, follow the chart for all the components needed to compose a gaging system suited to your application.



Indicating plug gage for through hole MaraMeter Dimentron



- Designed for high production ID gaging.
- High chrome content; hardened stainless steel bodies ground precisely for specified size measurement.
- Plug tooling interchangeable for quick changeover
- Easy measurement - insert plug into diameter and read (no rocking needed)
- Set to nominal dimension with a single master ring.
- Long Life Tungsten carbide contacts and V-Rod ensure durable motion transfer. Open design is conducive to easy rinse cleaning.
- Explore bores for taper, barrel shape, bell-mouth and 2-point out-of-round.
- Stop Collars available for all standard sizes.
- Captive V-Rod design.

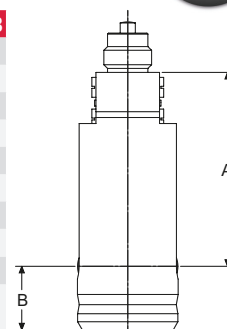
Technical Data

Order no.	Product type	Nominal size	Nominal size	Max. part tolerance		Max. part tolerance		Max. part tolerance		Max. part tolerance	
				M01	050	M02	100	M05	200	M08	400
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
2057604	Dimentron	3,180	.12500	± 0,025	± .0010"	± 0,038	± .0015"				
		-3,620	-.14260"								
2057605	Dimentron	3,621	.14265	± 0,025	± .0010"	± 0,046	± .0018"	± 0,076	± .0030"		
		-5,500	-.21700"								
2057606	Dimentron	5,501	.21705	± 0,025	± .0010"	± 0,046	± .0018"	± 0,069	± .0027"	± 0,102	± .0040"
		-7,940	-.31250"								
2057607	Dimentron	7,941	.31255	± 0,030	± .0012"	± 0,051	± .0020"	± 0,069	± .0027"	± 0,127	± .0050"
		-8,200	-.32200"								
2057608	Dimentron	8,201	.32205	± 0,030	± .0012"	± 0,051	± .0020"	± 0,069	± .0027"	± 0,127	± .0050"
		-9,500	-.37500"								
2057609	Dimentron	9,501	.37505	± 0,038	± .0015"	± 0,058	± .0023"	± 0,086	± .0034"	± 0,137	± .0054"
		-12,700	-.50000"								
2057610	Dimentron	12,701	.50005	± 0,038	± .0015"	± 0,069	± .0027"	± 0,102	± .0040"	± 0,165	± .0065"
		-19,050	-.75000"								
2057611	Dimentron	19,051	.75005	± 0,038	± .0015"	± 0,076	± .0030"	± 0,127	± .0050"	± 0,180	± .0071"
		-25,400	-1.00000"								
2057612	Dimentron	25,401	1.00005	± 0,038	± .0015"	± 0,076	± .0030"	± 0,152	± .0060"	± 0,221	± .0087"
		-38,000	-1.50000"								
2057613	Dimentron	38,001	1.50000			± 0,076	± .0030"	± 0,152	± .0060"	± 0,254	± .0100"
		-63,5	-2.50000"								
2057614	Dimentron	63,5	2.500			± 0,076	± .0030"	± 0,152	± .0060"	± 0,254	± .0100"
		-76,2	-3.000"								
2057615	Dimentron	76,2	3.000			± 0,076	± .0030"	± 0,152	± .0060"	± 0,254	± .0100"
		-88,9	-3.500"								
2057616	Dimentron	88,9	3.500			± 0,076	± .0030"	± 0,152	± .0060"	± 0,254	± .0100"
		-101,6	-4.000"								
2057617	Dimentron	101,6	4.000			± 0,076	± .0030"	± 0,152	± .0060"	± 0,254	± .0100"
		-114,3	-4.500"								
2057618	Dimentron	114,3	4.500					± 0,152	± .0060"	± 0,254	± .0100"
		-139,7	-5.500"								
2057619	Dimentron	139,7	5.500					± 0,152	± .0060"	± 0,254	± .0100"
		-165,1	-6.500"								
2057620	Dimentron	165,1	6.500					± 0,152	± .0060"	± 0,254	± .0100"
		-203,2	-8.000"								
2057621	Dimentron	203,2	8.000					± 0,152	± .0060"	± 0,254	± .0100"
		-228,6	-9.000"								

Indicating plug gage for through hole MaraMeter Dimentron



Order no.	Nominal size		A	Dimension A		B	Dimension B	
	mm	inch		mm	inch		mm	inch
2057604	3,180 – 5,500	.12500 – .21700"	31,4	1.23"	6,4	.25"		
2057605	5,501 – 8,200	.21705 – 0.3220"	34,8	1.37"	6,5	.256"		
2057606	8,201 – 9,500	0.3225 – .37500"	34,8	1.37"	6,5	.256"		
2057607	9,501 – 12,700	.37505 – .50000"	35,4	1.39"	13	.512"		
2057608	12,701 – 19,050	.50005 – .75000"	35,4	1.39"	13	.512"		
2057609	19,051 – 25,400	.75005 – 1.00000"	48,3	1.90"	16	.63"		
2057610	25,401 – 38,000	1.00005 – 1.50000"	48,3	1.90"	16	.63"		
2057611	38,000 – 63,000	1.50000 – 2.50000"	46,7	1.84"	19	.748"		
2057612– 2057615	63,000 – 114,300	2.50000 – 4.50000"	46,7	1.84"	19	.748"		
2057616– 2057619	114,300 – 228,300	4.50000 – 9.00000"	46,7	1.84"	9,5	.375"		



Accessories

Order no.	Product name	Product type
4337620	Digital Indicator, 0.0005 mm, 12.5 mm	1086 R
4337624	Digital Indicator, 0.0005 mm, 12.5 mm	1086 Ri
4337660	Digital Indicator, 0.0005 mm, 12.5 mm	1087 R
4337663	Digital Indicator, 0.0005 mm, 12.5 mm	1087 Ri
2050829	Bore Gage Handle with Indicator 221, grad. .0001"	550P-10
2050830	Bore Gage Handle with Indicator P11, grad. 0,002 mm	550P-20
2203139	Adapter for Handle HA-88	AT-124
2203140	Adapter for mounting Maxµm III with protective housing to bench stand BA-26	AT-125
2204032	Protective housing for Maxµm III with output	B-12668
2204599	Base with tooling plate, plug to be mounted vertically or horizontally	BA-100
2051697	Bore Gage Handle with Digital Indicator µMaxµm II, res. 0,001mm / .00005"	EDI-550P-10
2051698	Bore Gage Handle with Digital Indicator µMaxµm II, res. 0,0005mm / .00002"	EDI-550P-20
2213388	Handle assembly (inductive probe, HA-88 handle, AD-140 Adapter) with 3m/11ft. coiled cable	EHA-1145
2213389	Handle assembly (inductive probe, HA-88 handle, AD-140 Adapter) with 1,5m/5ft. straight cable	EHA-1146
2214119	Adapter-set to mount Maxµm III indicator with 3/8" stem to a dimentron plug	EKT-1120-W1
2214120	Adapter-set to mount Maxµm III indicator with 8 mm stem to a dimentron plug	EKT-1120-W2
2214121	Adapter-set to mount dial indicators or µMaxµm II with 3/8" stem to a dimentron plug	EKT-1120-W3
2214122	Adapter-set to mount dial indicators or µMaxµm II with 8 mm stem to a dimentron plug	EKT-1120-W4
2214124	Adapter-set to mount dial comparators 1002 – 1010 with 8 mm stem to a dimentron plug	EKT-1120-W6
2218595	Depth extension 50mm / 1.97" for plug diameter 9,5 – 19,05mm / .375 – .75"	EX-204
2218596	Depth extension 100mm / 3.94" for plug diameter 9,5 – 19,05mm / .375 – .75"	EX-205
2218597	Depth extension 200mm / 7.87" for plug diameter 9,5 – 19,05mm / .375 – .75"	EX-206
2218600	Depth extension 50mm / 1.97" for plug diameter 19,05mm / .75" and above	EX-210
2218601	Depth extension 100mm / 3.94" for plug diameter 19,05mm / .75" and above	EX-211
2218602	Depth extension 200mm / 7.87" for plug diameter 19,05mm / .75" and above	EX-212
2220037	Handle for Maxµm III digital transducers	HA-141
2220100	Handle to be mounted on protective housings EHG-1172 and EHG-1198 via Adapter AT-124	HA-88
2033101	Inductive dial comparator, ±1 mm/± .040", no output	Maxµm III
2033111	Inductive dial comparator, ±1 mm/± .040", with output (6-pin)	Maxµm III
2033201	Inductive dial comparator, ±1 mm/± .040", with data output (6-pin), "0" at 6 o'clock position	Maxµm III



Maxµm III



1086 R



1086 Ri



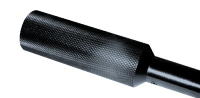
1087 R



1087 Ri



EDI-550P-10



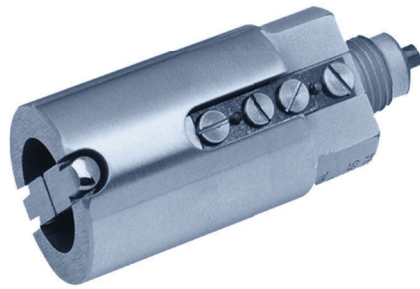
HA-141



BA-100



Indicating plug gage for blind hole MaraMeter Dimentron



- Designed for high production ID gaging.
- High chrome content; hardened stainless steel bodies ground precisely for specified size measurement.
- Plug tooling interchangeable for quick changeover
- Easy measurement - insert plug into diameter and read (no rocking needed)
- Set to nominal dimension with a single master ring.
- Long life: Tungsten carbide contacts and V-Rod ensure durable motion transfer. Open design rinses clean easily.
- Explore bores for taper, barrel shape, bell-mouth and 2-point out-of-round.
- Stop Collars available for all standard sizes.
- Captive V-Rod design.

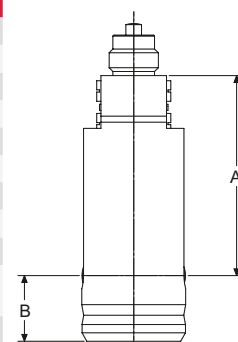
Technical Data

Order no.	Product type	Nominal size	Nominal size	Max. part tolerance		Max. part tolerance		Max. part tolerance		Max. part tolerance	
				M01	050	M02	100	M05	200	M08	400
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
2057620	Dimentron	3,180	.12500	± 0,025	± .0010"	± 0,038	± .0015"				
		-3,620	-.14260"								
		3,621	.14265	± 0,025	± .0010"	± 0,046	± .0018"	± 0,076	± .0030"		
2057621	Dimentron	5,501	.21705	± 0,025	± .0010"	± 0,046	± .0018"	± 0,069	± .0027"	± 0,102	± .0040"
		-7,940	-.31250"								
		7,941	.31255	± 0,030	± .0012"	± 0,051	± .0020"	± 0,069	± .0027"	± 0,127	± .0050"
2057622	Dimentron	8,201	.32205	± 0,030	± .0012"	± 0,051	± .0020"	± 0,069	± .0027"	± 0,127	± .0050"
		-9,500	-.37500"								
2057623	Dimentron	9,501	.37505	± 0,038	± .0015"	± 0,058	± .0023"	± 0,086	± .0034"	± 0,137	± .0054"
2057624	Dimentron	12,701	.50005	± 0,038	± .0015"	± 0,069	± .0027"	± 0,102	± .0040"	± 0,165	± .0065"
		-19,050	-.75000"								
2057625	Dimentron	19,051	.75005	± 0,038	± .0015"	± 0,076	± .0030"	± 0,127	± .0050"	± 0,180	± .0071"
		-25,400	-1.00000"								
2057626	Dimentron	25,401	1.00005	± 0,038	± .0015"	± 0,076	± .0030"	± 0,152	± .0060"	± 0,221	± .0087"
2057627	Dimentron	38,001	1.50000			± 0,076	± .0030"	± 0,152	± .0060"	± 0,254	± .0100"
		-63,5	-								
2057628	Dimentron	63,5	2.500			± 0,076	± .0030"	± 0,152	± .0060"	± 0,254	± .0100"
2057629	Dimentron	76,2	3.000			± 0,076	± .0030"	± 0,152	± .0060"	± 0,254	± .0100"
		-88,9	-3.500"								
2057630	Dimentron	88,9	3.500			± 0,076	± .0030"	± 0,152	± .0060"	± 0,254	± .0100"
2057631	Dimentron	101,6	4.000			± 0,076	± .0030"	± 0,152	± .0060"	± 0,254	± .0100"
		-114,3	-4.500"								
2057632	Dimentron	114,3	4.500					± 0,152	± .0060"	± 0,254	± .0100"
2057633	Dimentron	139,7	5.500					± 0,152	± .0060"	± 0,254	± .0100"
		-165,1	-6.500"								
2057634	Dimentron	165,1	6.500					± 0,152	± .0060"	± 0,254	± .0100"
2057635	Dimentron	203,2	8.000					± 0,152	± .0060"	± 0,254	± .0100"
		-228,6	-9.000"								

Indicating plug gage for blind hole MaraMeter Dimentron



Order no.	Nominal size		A	Dimension A		B	Dimension B	
	mm	inch		mm	inch		mm	inch
2057620	3,180 – 5,500	.12500 – .21700"	31,4	1.23"	4	.157"		
2057621	5,501 – 8,200	.21705 – 0.3220"	34,8	1.37"	4	.157"		
2057622	8,201 – 9,500	0.3225 – .37500"	34,8	1.37"	4	.157"		
2057623	9,501 – 12,700	.37505 – .50000"	35,4	1.39"	4	.157"		
2057624	12,701 – 19,050	.50005 – .75000"	35,4	1.39"	4	.157"		
2057625	19,051 – 25,400	.75005 – 1.00000"	48,3	1.90"	4	.157"		
2057626	25,401 – 38,000	1.00005 – 1.50000"	48,3	1.90"	4	.157"		
2057627	38,000 – 63,000	1.50000 – 2.50000"	46,7	1.84"	4	.157"		
2057612– 2057615	63,000 – 114,300	2.50000 – 4.50000"	46,7	1.84"	4	.157"		
2057616– 2057619	114,300 – 228,300	4.50000 – 9.00000"	46,7	1.84"	4	.157"		



Accessories

Order no.	Product name	Product type
4337620	Digital Indicator, 0.0005 mm, 12.5 mm	1086 R
4337624	Digital Indicator, 0.0005 mm, 12.5 mm	1086 Ri
4337660	Digital Indicator, 0.0005 mm, 12.5 mm	1087 R
4337663	Digital Indicator, 0.0005 mm, 12.5 mm	1087 Ri
2050829	Bore Gage Handle with Indicator 221, grad. .0001"	550P-10
2050830	Bore Gage Handle with Indicator P11, grad. 0,002 mm	550P-20
2203139	Adapter for Handle H-88	AT-124
2203140	Adapter for mounting Maxum III with protective housing to bench stand BA-26	AT-125
2204032	Protective housing for Maxum III with output	B-12668
2204599	Base with tooling plate, plug to be mounted vertically or horizontally	BA-100
2051697	Bore Gage Handle with Digital Indicator µMaxum II, res. 0,001mm / .00005"	EDI-550P-10
2051698	Bore Gage Handle with Digital Indicator µMaxum II, res. 0,0005mm / .00002"	EDI-550P-20
2213388	Handle assembly (inductive probe, HA-88 handle, AD-140 Adapter) with 3m/11ft. coiled cable	EHA-1145
2213389	Handle assembly (inductive probe, HA-88 handle, AD-140 Adapter) with 1,5m/5ft. straight cable	EHA-1146
2214119	Adapter-set to mount Maxum III indicator with 3/8" stem to a dimentron plug	EKT-1120-W1
2214120	Adapter-set to mount Maxum III indicator with 8 mm stem to a dimentron plug	EKT-1120-W2
2214121	Adapter-set to mount dial indicators or µMaxum II with 3/8" stem to a dimentron plug	EKT-1120-W3
2214122	Adapter-set to mount dial indicators or µMaxum II with 8 mm stem to a dimentron plug	EKT-1120-W4
2214124	Adapter-set to mount dial comparators 1002-1010 with 8 mm stem to a dimentron plug	EKT-1120-W6
2218595	Depth extension 50mm / 1.97" for plug diameter 9,5 – 19,05mm / .375 – .75"	EX-204
2218596	Depth extension 100mm / 3.94" for plug diameter 9,5 – 19,05mm / .375 – .75"	EX-205
2218597	Depth extension 200mm / 7.87" for plug diameter 9,5 – 19,05mm / .375 – .75"	EX-206
2218600	Depth extension 50mm / 1.97" for plug diameter 19,05mm / .75" and above	EX-210
2218601	Depth extension 100mm / 3.94" for plug diameter 19,05mm / .75" and above	EX-211
2218602	Depth extension 200mm / 7.87" for plug diameter 19,05mm / .75" and above	EX-212
2220037	Handle for Maxum III digital transducers	HA-141
2220100	Handle to be mounted on protective housings EHG-1172 and EHG-1198 via Adapter AT-124	HA-88
2033101	Inductive dial comparator, ±1 mm/± .040", no output	Maxum III
2033111	Inductive dial comparator, ±1 mm/± .040", with output (6-pin)	Maxum III
2033201	Inductive dial comparator, ±1 mm/± .040", with data output (6-pin), "0" at 6 o'clock position	Maxum III



Maxum III



1086 R



1086 Ri



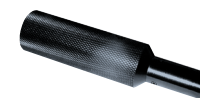
1087 R



1087 Ri



EDI-550P-10

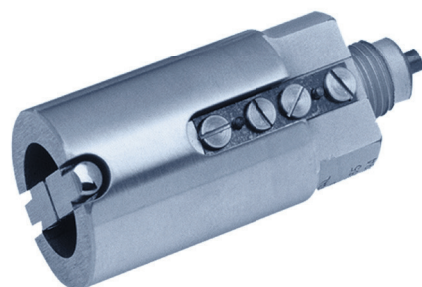


HA-141



BA-100

Indicating plug gage for super blind hole MaraMeter Dimentron



- Designed for high production ID gaging.
- High chrome content; hardened stainless steel bodies ground precisely for specified size measurement.
- Plug tooling interchangeable for quick changeover
- Easy measurement - insert plug into diameter and read (no rocking needed)
- Set to nominal dimension with a single master ring.
- Long life: Tungsten carbide contacts and V-Rod ensure durable motion transfer. Open design rinses clean easily.
- Explore bores for taper, barrel shape, bell-mouth and 2-point out-of-round.
- Stop Collars available for all standard sizes.
- Captive V-Rod design.

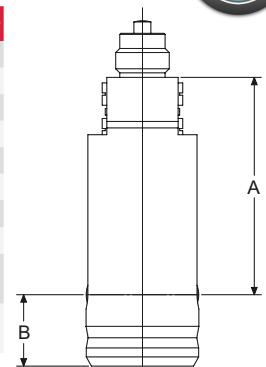
Technical Data

Order no.	Product type	Nominal size	Nominal size	Max. part tolerance		Max. part tolerance		Max. part tolerance		Max. part tolerance	
				M01	050	M02	100	M05	200	M08	400
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
2058545	Dimentron	5,501	.21705	± 0,025	± .0010"	± 0,046	± .0018"	± 0,069	± .0027"	± 0,102	± .0040"
		-7,940	-.31250"								
2058546	Dimentron	7,941	.31255	± 0,030	± .0012"	± 0,051	± .0020"	± 0,069	± .0027"	± 0,127	± .0050"
		-8,200	-.32200"								
2058547	Dimentron	8,201	.32205	± 0,030	± .0012"	± 0,051	± .0020"	± 0,069	± .0027"	± 0,127	± .0050"
		-9,500	-.37500"								
2058548	Dimentron	9,501	.37505	± 0,038	± .0015"	± 0,058	± .0023"	± 0,086	± .0034"	± 0,137	± .0054"
		-12,700	-.50000"								
2058549	Dimentron	12,701	.50005	± 0,038	± .0015"	± 0,069	± .0027"	± 0,102	± .0040"	± 0,165	± .0065"
		-19,050	-.75000"								
2058550	Dimentron	19,051	.75005	± 0,038	± .0015"	± 0,076	± .0030"	± 0,127	± .0050"	± 0,180	± .0071"
		-25,400	-1.00000"								
2058551	Dimentron	25,401	1.00005	± 0,038	± .0015"	± 0,076	± .0030"	± 0,152	± .0060"	± 0,221	± .0087"
		-38,000	-1.50000"								
2058552	Dimentron	38,001	1.50000			± 0,076	± .0030"	± 0,152	± .0060"	± 0,254	± .0100"
		- 63,5	- 2.50000"								
2058553	Dimentron	63.5	2.500			± 0,076	± .0030"	± 0,152	± .0060"	± 0,254	± .0100"
		-76.2	-3.000"								
2058554	Dimentron	76.2	3.000			± 0,076	± .0030"	± 0,152	± .0060"	± 0,254	± .0100"
		-88.9	-3.500"								
2058555	Dimentron	88.9	3.500			± 0,076	± .0030"	± 0,152	± .0060"	± 0,254	± .0100"
		-101.6	-4.000"								
2058556	Dimentron	101.6	4.000			± 0,076	± .0030"	± 0,152	± .0060"	± 0,254	± .0100"
		-114.3	-4.500"								
2058557	Dimentron	114.3	4.500					± 0,152	± .0060"	± 0,254	± .0100"
		-139.7	-5.500"								
2058558	Dimentron	139.7	5.500					± 0,152	± .0060"	± 0,254	± .0100"
		-165.1	-6.500"								
2058559	Dimentron	165.1	6.500					± 0,152	± .0060"	± 0,254	± .0100"
		-203.2	-8.000"								
2058559	Dimentron	203.2	8.000					± 0,152	± .0060"	± 0,254	± .0100"
		-228.6	-9.000"								

Indicating plug gage for super blind hole MaraMeter Dimentron



Order no.	Nominal size		A	Dimension A	B	Dimension B
	mm	inch				
2058545	5,501 – 8,200	.21705 – 0.3220"	34,8	1.37"	2	.08"
	8,201 – 9,500	0.3225 – .37500"	34,8	1.37"	2	.08"
2058546	9,501 – 12,700	.37505 – .50000"	35,4	1.39"	2	.08"
2058547	12,701 – 19,050	.50005 – .75000"	35,4	1.39"	2	.08"
2058548	19,051 – 25,400	.75005 – 1.00000"	48,3	1.90"	2	.08"
2058549	25,401 – 38,000	1.00005 – 1.50000"	48,3	1.90"	2	.08"
2058550	38,000 – 63,000	1.50000 – 2.50000"	46,7	1.84"	2	.08"
2058551– 2058555	63,000 – 114,300	2.50000 – 4.50000"	46,7	1.84"	2	.08"
2058556– 2058559	114,300 – 228,300	4.50000 – 9.00000"	46,7	1.84"	2	.08"



Accessories

Order no.	Product name	Product type
4337620	Digital Indicator, 0.0005 mm, 12.5 mm	1086 R
4337624	Digital Indicator, 0.0005 mm, 12.5 mm	1086 Ri
4337660	Digital Indicator, 0.0005 mm, 12.5 mm	1087 R
4337663	Digital Indicator, 0.0005 mm, 12.5 mm	1087 Ri
2050829	Bore Gage Handle with Indicator 221, grad. .0001"	550P–10
2050830	Bore Gage Handle with Indicator P11, grad. 0,002 mm	550P–20
2203139	Adapter for Handle HA–88	AT–124
2203140	Adapter for mounting Maxµm III with protective housing to bench stand BA–26	AT–125
2204032	Protective housing for Maxµm III with output	B–12668
2204599	Base with tooling plate, plug to be mounted vertically or horizontally	BA–100
2051697	Bore Gage Handle with Digital Indicator µMaxµm II, res. 0,001mm / .00005"	EDI–550P–10
2051698	Bore Gage Handle with Digital Indicator µMaxµm II, res. 0,0005mm / .00002"	EDI–550P–20
2213388	Handle assembly (inductive probe, HA–88 handle, AD–140 Adapter) with 3m/11ft. coiled cable	EHA–1145
2213389	Handle assembly (inductive probe, HA–88 handle, AD–140 Adapter) with 1,5m/5ft. straight cable	EHA–1146
2214119	Adapter-set to mount Maxµm III indicator with 3/8" stem to a dimentron plug	EKT–1120-W1
2214120	Adapter-set to mount Maxµm III indicator with 8 mm stem to a dimentron plug	EKT–1120-W2
2214121	Adapter-set to mount dial indicators or µMaxµm II with 3/8" stem to a dimentron plug	EKT–1120-W3
2214122	Adapter-set to mount dial indicators or µMaxµm II with 8 mm stem to a dimentron plug	EKT–1120-W4
2214124	Adapter-set to mount dial comparators 1002–1010 with 8 mm stem to a dimentron plug	EKT–1120-W6
2218595	Depth extension 50mm / 1.97" for plug diameter 9,5 – 19,05mm / .375 – .75"	EX–204
2218596	Depth extension 100mm / 3.94" for plug diameter 9,5 – 19,05mm / .375 – .75"	EX–205
2218597	Depth extension 200mm / 7.87" for plug diameter 9,5 – 19,05mm / .375 – .75"	EX–206
2218600	Depth extension 50mm / 1.97" for plug diameter 19,05mm / .75" and above	EX–210
2218601	Depth extension 100mm / 3.94" for plug diameter 19,05mm / .75" and above	EX–211
2218602	Depth extension 200mm / 7.87" for plug diameter 19,05mm / .75" and above	EX–212
2220037	Handle for Maxµm III digital transducers	HA–141
2220100	Handle to be mounted on protective housings EHG–1172 and EHG–1198 via Adapter AT–124	HA–88
2033101	Inductive dial comparator, ±1 mm/± .040", no output	Maxµm III
2033111	Inductive dial comparator, ±1 mm/± .040", with output (6-pin)	Maxµm III
2033201	Inductive dial comparator, ±1 mm/± .040", with data output (6-pin), "0" at 6 o'clock position	Maxµm III



Maxµm III



1086 R



1086 Ri



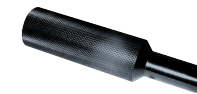
1087 R



1087 Ri



EDI–550P–10



HA–141



BA–100

Indicating plug gage for super super blind hole MaraMeter Dimentron



- Designed for high production ID gaging.
- High chrome content; hardened stainless steel bodies ground precisely for specified size measurement.
- Plug tooling interchangeable for quick changeover
- Easy measurement - insert plug into diameter and read (no rocking needed)
- Set to nominal dimension with a single master ring.
- Long life: Tungsten carbide contacts and V-Rod ensure durable motion transfer. Open design rinses clean easily.
- Explore bores for taper, barrel shape, bell-mouth and 2-point out-of-round.
- Stop Collars available for all standard sizes.
- Captive V-Rod design.

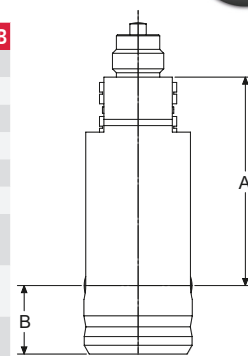
Technical Data

Order no.	Product type	Nominal size	Nominal size	Max. part tolerance		Max. part tolerance		Max. part tolerance		Max. part tolerance	
				M01	050	M02	100	M05	200	M08	400
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
2058560	Dimentron	5,501 -7,940	.21705 -.31250"	± 0,025	± .0010"	± 0,046	± .0018"	± 0,069	± .0027"	± 0,102	± .0040"
		7,941 -8,200	.31255 -.32200"	± 0,030	± .0012"	± 0,051	± .0020"	± 0,069	± .0027"	± 0,127	± .0050"
2058561	Dimentron	8,201 -9,500	.32205 -.37500"	± 0,030	± .0012"	± 0,051	± .0020"	± 0,069	± .0027"	± 0,127	± .0050"
2058562	Dimentron	9,501 -12,700	.37505 -.50000"	± 0,038	± .0015"	± 0,058	± .0023"	± 0,086	± .0034"	± 0,137	± .0054"
2058563	Dimentron	12,701 -19,050	.50005 -.75000"	± 0,038	± .0015"	± 0,069	± .0027"	± 0,102	± .0040"	± 0,165	± .0065"
2058564	Dimentron	19,051 -25,400	.75005 -1.00000"	± 0,038	± .0015"	± 0,076	± .0030"	± 0,127	± .0050"	± 0,180	± .0071"
2058565	Dimentron	25,401 -38,000	1.00005 -1.50000"	± 0,038	± .0015"	± 0,076	± .0030"	± 0,152	± .0060"	± 0,221	± .0087"
2058566	Dimentron	38,001 - 63,5	1.50000 - 2.50000"			± 0,076	± .0030"	± 0,152	± .0060"	± 0,254	± .0100"
2058567	Dimentron	63.5- 76.2	2.500- 3.000"			± 0,076	± .0030"	± 0,152	± .0060"	± 0,254	± .0100"
2058568	Dimentron	76.2- 88.9	3.000- 3.500"			± 0,076	± .0030"	± 0,152	± .0060"	± 0,254	± .0100"
2058569	Dimentron	88.9- 101.6	3.500- 4.000"			± 0,076	± .0030"	± 0,152	± .0060"	± 0,254	± .0100"
2058570	Dimentron	101.6- 114.3	4.000- 4.500"			± 0,076	± .0030"	± 0,152	± .0060"	± 0,254	± .0100"

Indicating plug gage for super super blind hole MaraMeter Dimentron



Order no.	Nominal size		A mm	Dimension A		B mm	Dimension B	
	mm	inch		inch	inch			
2058560	5,501 – 8,200	.21705 – 0.3220"	34,8	1.37"	0,79	.031"		
	8,201 – 9,500	0.3225 – .37500"						
2058561	9,501 – 12,700	.37505 – .50000"	35,4	1.39"	0,79	.031"		
2058562	12,701 – 19,050	.50005 – .75000"	35,4	1.39"	0,79	.031"		
2058563	19,051 – 25,400	.75005 – 1.00000"	48,3	1.90"	0,79	.031"		
2058564	25,401 – 38,000	1.00005	48,3	1.90"	0,79	.031"		
		– 1.50000"						
2058565	38,000 – 63,000	1.50000 – 2.50000"	46,7	1.84"	0,79	.031"		
2058566– 2058570	63,000 – 114,300	2.50000 – 4.50000"	46,7	1.84"	0,79	.031"		



Accessories

Order no.	Product name	Product type
4337620	Digital Indicator, 0.0005 mm, 12.5 mm	1086 R
4337624	Digital Indicator, 0.0005 mm, 12.5 mm	1086 Ri
4337660	Digital Indicator, 0.0005 mm, 12.5 mm	1087 R
4337663	Digital Indicator, 0.0005 mm, 12.5 mm	1087 Ri
2050829	Bore Gage Handle with Indicator 221, grad. .0001"	550P–10
2050830	Bore Gage Handle with Indicator P11, grad. 0,002 mm	550P–20
2203139	Adapter for Handle HA–88	AT–124
2203140	Adapter for mounting Maxµm III with protective housing to bench stand BA–26	AT–125
2204032	Protective housing for Maxµm III with output	B–12668
2204599	Base with tooling plate, plug to be mounted vertically or horizontally	BA–100
2051697	Bore Gage Handle with Digital Indicator µMaxum II, res. 0,001mm / .00005"	EDI–550P–10
2051698	Bore Gage Handle with Digital Indicator µMaxum II, res. 0,0005mm / .00002"	EDI–550P–20
2213388	Handle assembly (inductive probe, HA–88 handle, AD–140 Adapter) with 3m/11ft. coiled cable	EHA–1145
2213389	Handle assembly (inductive probe, HA–88 handle, AD–140 Adapter) with 1,5m/5ft. straight cable	EHA–1146
2214119	Adapter-set to mount Maxµm III indicator with 3/8" stem to a dimentron plug	EKT–1120-W1
2214120	Adapter-set to mount Maxµm III indicator with 8 mm stem to a dimentron plug	EKT–1120-W2
2214121	Adapter-set to mount dial indicators or µMaxum II with 3/8" stem to a dimentron plug	EKT–1120-W3
2214122	Adapter-set to mount dial indicators or µMaxum II with 8 mm stem to a dimentron plug	EKT–1120-W4
2214124	Adapter-set to mount dial comparators 1002–1010 with 8 mm stem to a dimentron plug	EKT–1120-W6
2218595	Depth extension 50mm / 1.97" for plug diameter 9,5 – 19,05mm / .375 – .75"	EX–204
2218596	Depth extension 100mm / 3.94" for plug diameter 9,5 – 19,05mm / .375 – .75"	EX–205
2218597	Depth extension 200mm / 7.87" for plug diameter 9,5 – 19,05mm / .375 – .75"	EX–206
2218600	Depth extension 50mm / 1.97" for plug diameter 19,05mm / .75" and above	EX–210
2218601	Depth extension 100mm / 3.94" for plug diameter 19,05mm / .75" and above	EX–211
2218602	Depth extension 200mm / 7.87" for plug diameter 19,05mm / .75" and above	EX–212
2220037	Handle for Maxµm III digital transducers	HA–141
2220100	Handle to be mounted on protective housings EHG–1172 and EHG–1198 via Adapter AT–124	HA–88
2033101	Inductive dial comparator, ±1 mm/± .040", no output	Maxµm III
2033111	Inductive dial comparator, ±1 mm/± .040", with output (6-pin)	Maxµm III
2033201	Inductive dial comparator, ±1 mm/± .040", with data output (6-pin), "0" at 6 o'clock position	Maxµm III



Maxµm III



1086 R



1086 Ri



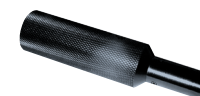
1087 R



1087 Ri



EDI–550P–10



HA–141



BA–100



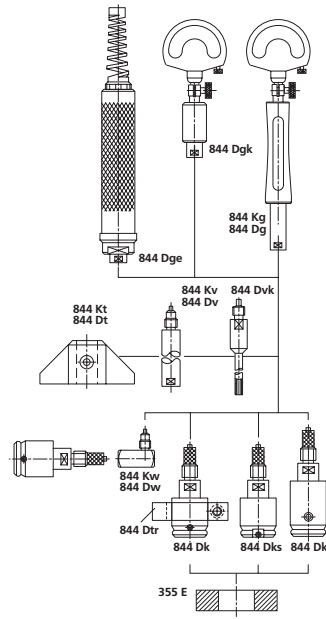
Indicating plug gage MaraMeter 844 Dk



Application:

Standard model

- For rapid testing of diameter, roundness and conicity of bores
- Especially suitable for testing batches with tight tolerances (**for tolerances <10µm on request**)
- Rocking in the bore is unnecessary to determine the reversal point
- Ideal for use in conjunction with digital display units and for subsequent processing of measured values



- Measuring head has a hardened chromium plated guide cylinder and carbide tipped anvils
- The carbide expanding pin transfers radial movement to indicating instrument
- Constant measuring force as a result of built-in spring, thus eliminating user influence
- Extensive modular system is composed of measuring head, holder, depth extension, right angle attachments and depth stops

Technical Data

Order no.	Product type	Nominal size	Measuring span	Manufacturing tolerance	Linearity deviation fe	Repeatability f _w	Measuring value hysteresis f _u
		mm	mm	mm / mm		µm	µm
4480184	844 Dk	2.980 – 3.990	0.1	-0.02 / -0.04	1%, min. 1 µm	1	0.4
4478200	844 Dk	3.991 – 8.000	0.1	-0.02 / -0.04	1%, min. 1 µm	1	0.4
4478201	844 Dk	8.001 – 16.000	0.15	-0.02 / -0.04	1%, min. 1 µm	1	0.4
4478202	844 Dk	16.001 – 25.000	0.2	-0.02 / -0.05	1%, min. 1 µm	1	0.4
4478204	844 Dk	25.001 – 32.000	0.2	-0.02 / -0.05	1%, min. 1 µm	1	0.4
4478205	844 Dk	32.001 – 44.000	0.2	-0.02 / -0.06	1%, min. 1 µm	1	0.4
4478206	844 Dk	44.001 – 50.000	0.2	-0.03 / -0.06	1%, min. 1 µm	1	0.4
4478207	844 Dk	50.001 – 60.000	0.2	-0.03 / -0.06	1%, min. 1 µm	1	0.4
4478208	844 Dk	60.001 – 70.000	0.2	-0.03 / -0.06	1%, min. 1 µm	1	0.4
4478209	844 Dk	70.001 – 80.000	0.2	-0.04 / -0.07	1%, min. 1 µm	1	0.4
4478210	844 Dk	80.001 – 90.000	0.2	-0.04 / -0.07	1%, min. 1 µm	1	0.4
4478211	844 Dk	90.001 – 100.000	0.2	-0.04 / -0.07	1%, min. 1 µm	1	0.4
4478212	844 Dk	100.001 – 110.000	0.2	-0.04 / -0.07	1%, min. 1 µm	1	0.4
4478213	844 Dk	110.001 – 120.000	0.2	-0.04 / -0.07	1%, min. 1 µm	1	0.4
4478214	844 Dk	120.001 – 130.000	0.2	-0.04 / -0.07	1%, min. 1 µm	1	0.4
4478215	844 Dk	130.001 – 140.000	0.2	-0.04 / -0.07	1%, min. 1 µm	1	0.4
4478216	844 Dk	140.001 – 150.000	0.2	-0.04 / -0.07	1%, min. 1 µm	1	0.4
4478217	844 Dk	150.001 – 160.000	0.2	-0.04 / -0.07	1%, min. 1 µm	1	0.4
4478218	844 Dk	160.001 – 170.000	0.2	-0.04 / -0.07	1%, min. 1 µm	1	0.4
4478219	844 Dk	170.001 – 180.000	0.2	-0.04 / -0.07	1%, min. 1 µm	1	0.4
4478220	844 Dk	180.001 – 190.000	0.2	-0.04 / -0.07	1%, min. 1 µm	1	0.4
4478221	844 Dk	190.001 – 200.000	0.2	-0.04 / -0.07	1%, min. 1 µm	1	0.4

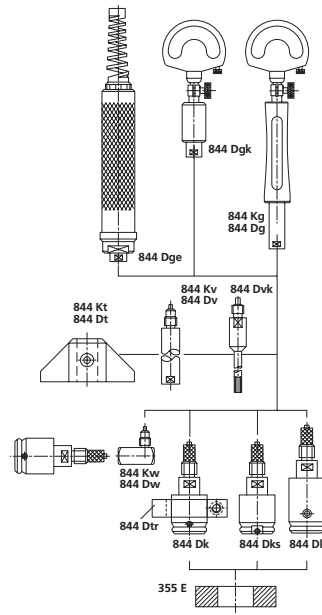


Indicating plug gage MaraMeter 844 Dkr

Application:

Model for through holes

- With extended guide cylinder for measuring through holes from the edge of the hole
- For the rapid testing of diameter, roundness and conicity of bores
- Especially suitable for testing batches with tight tolerances (**for tolerances <10µm on request**)
- Rocking in the bore is unnecessary to determine the reversal point
- Ideal for use in conjunction with digital display units and for subsequent processing of measured values



- Measuring head has a hardened chromium plated guide cylinder and carbide tipped anvils
- The carbide expanding pin transfers radial movement to indicating instrument
- Constant measuring force as a result of built-in spring, thus eliminating user influence
- Extensive modular system is composed of measuring head, holder, depth extension, right angle attachments and depth stops

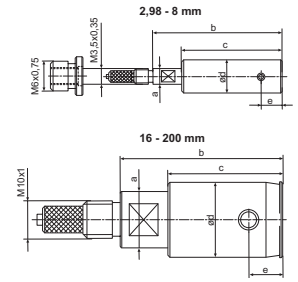
Technical Data

Order no.	Product type	Nominal size	Measuring span	Manufacturing tolerance	Linearity deviation fe	Repeatability f _w	Measuring value hysteresis f _u
		mm	mm	mm / mm		µm	µm
4478272	844 Dkr	2.980 – 3.990	0.1	-0.02 / -0.04	1%, min. 1 µm	1	0.4
4478250	844 Dkr	3.990 – 8.000	0.1	-0.02 / -0.04	1%, min. 1 µm	1	0.4
4478251	844 Dkr	8.000 – 16.000	0.15	-0.02 / -0.04	1%, min. 1 µm	1	0.4
4478252	844 Dkr	16.000 – 25.000	0.2	-0.02 / -0.05	1%, min. 1 µm	1	0.4
4478254	844 Dkr	25.000 – 32.000	0.2	-0.02 / -0.05	1%, min. 1 µm	1	0.4
4478255	844 Dkr	32.000 – 44.000	0.2	-0.02 / -0.06	1%, min. 1 µm	1	0.4
4478256	844 Dkr	44.000 – 50.000	0.2	-0.03 / -0.06	1%, min. 1 µm	1	0.4
4478257	844 Dkr	50.000 – 60.000	0.2	-0.03 / -0.06	1%, min. 1 µm	1	0.4
4478258	844 Dkr	60.000 – 70.000	0.2	-0.03 / -0.06	1%, min. 1 µm	1	0.4
4478259	844 Dkr	70.000 – 80.000	0.2	-0.04 / -0.07	1%, min. 1 µm	1	0.4
4478260	844 Dkr	80.000 – 90.000	0.2	-0.04 / -0.07	1%, min. 1 µm	1	0.4
4478261	844 Dkr	90.000 – 100.000	0.2	-0.04 / -0.07	1%, min. 1 µm	1	0.4
4478262	844 Dkr	100.000 – 110.000	0.2	-0.04 / -0.07	1%, min. 1 µm	1	0.4
4478263	844 Dkr	110.000 – 120.000	0.2	-0.04 / -0.07	1%, min. 1 µm	1	0.4
4478264	844 Dkr	120.000 – 130.000	0.2	-0.04 / -0.07	1%, min. 1 µm	1	0.4
4478265	844 Dkr	130.000 – 140.000	0.2	-0.04 / -0.07	1%, min. 1 µm	1	0.4
4478266	844 Dkr	140.000 – 150.000	0.2	-0.04 / -0.07	1%, min. 1 µm	1	0.4
4478267	844 Dkr	150.000 – 160.000	0.2	-0.04 / -0.07	1%, min. 1 µm	1	0.4
4478268	844 Dkr	160.000 – 170.000	0.2	-0.04 / -0.07	1%, min. 1 µm	1	0.4
4478269	844 Dkr	170.000 – 180.000	0.2	-0.04 / -0.07	1%, min. 1 µm	1	0.4
4478270	844 Dkr	180.000 – 190.000	0.2	-0.04 / -0.07	1%, min. 1 µm	1	0.4
4478271	844 Dkr	190.000 – 200.000	0.2	-0.04 / -0.07	1%, min. 1 µm	1	0.4

Indicating plug gage MaraMeter 844 Dkr

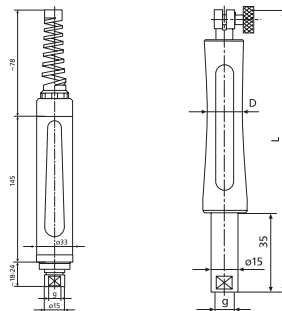
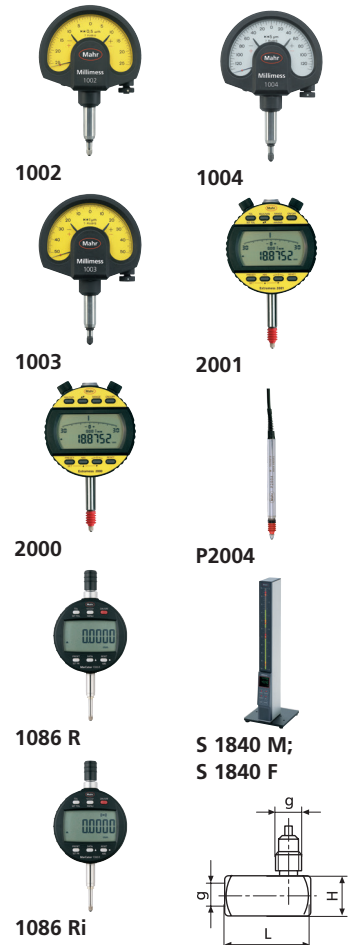


Order no.	a	b	c	e	g	Nominal size
	mm	mm	mm	mm		mm
4478272	4	35.8	27.8	6	M6 x 0,75	2.980 -3.990
4478250	4	35.8	27.8	6	M6 x 0,75	3.990 -8.000
4478251	7.9	39.5	31	9	M 6 x 0,75	8.000 -16.000
4478252	15	45	32	9.5	M10 x 1	16.000 -25.000
4478254	15	45	32	9.5	M10 x 1	25.000 -32.000
4478255	15	45	32	9.5	M10 x 1	32.000 -44.000
4478256	20	46	26	10.5	M10 x 1	44.000 -50.000
4478257	20	46	26	10.5	M10 x 1	50.000 -60.000
4478258	20	46	26	10.5	M10 x 1	60.000 -70.000
4478259	20	51	33	15	M10 x 1	70.000 -80.000
4478260	20	51	33	15	M10 x 1	80.000 -90.000
4478261	20	51	33	15	M10 x 1	90.000 -100.000
4478262	20	51	33	15	M10 x 1	100.000 -110.000
4478263	20	51	33	15	M10 x 1	110.000 -120.000
4478264	20	51	33	15	M10 x 1	120.000 -130.000
4478265	20	51	33	15	M10 x 1	130.000 -140.000
4478266	20	51	33	15	M10 x 1	140.000 -150.000
4478267	20	51	33	15	M10 x 1	150.000 -160.000
4478268	20	51	33	15	M10 x 1	160.000 -170.000
4478269	20	51	33	15	M10 x 1	170.000 -180.000
4478270	20	51	33	15	M10 x 1	180.000 -190.000
4478271	20	51	33	15	M10 x 1	190.000 -200.000



Accessories

Order no.	g	Product name	Product type
4335000		Millimess 0.5 µm, ± 25 µm	1002
4334000		Millimess 1 µm, ± 50 µm	1003
4333000		Millimess 5 µm, ± 130 µm	1004
4337620		Digital Indicator, 0.0005 mm, 12.5 mm	1086 R
4337624		Digital Indicator, 0.0005 mm, 12.5 mm	1086 Ri
4346000		Inductive dial comparator, ± 0.9 µm	2000
4346100		Inductive dial comparator, ± 0.9 µm	2001
4478851	M10 x 1	Standard Holder - Standard version	844 Dg
4478020	M6 x 0,75	Holder for Inductive Measuring Probes	844 Dge
4478021	M10 x 1	Holder 844 for Inductive Measuring Probes	844 Dge
4478050	M10 x 1	Short Holder - Short version	844 Dgk
4478110	M10 x 1	Right Angle Attachment, L = 36.7 mm, H = 17 mm	844 Dw
4470851	M6 x 0,75	Standard measuring instrument holder	844 Kg
4470110	M6 x 0,75	Right Angle Attachment, L = 26.5 mm, H = 22.5 mm	844 Kw
5312010		Compact Amplifier	C1200
5323010	M 2,5	Inductive Probe, ± 2 mm	P2004
5318400		Compact column amplifier	S 1840 M



844 Dg



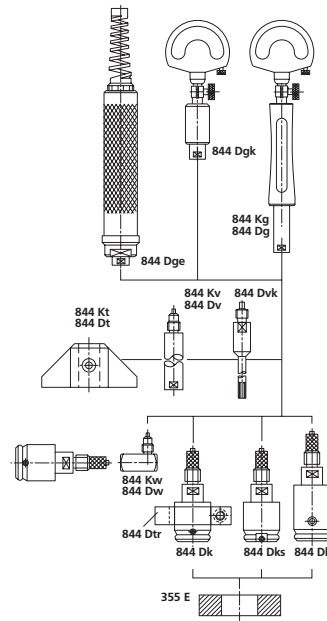
Indicating plug gage MaraMeter 844 Dks



Application:

Model for blind holes

- For measurements close to the base of the hole
- For the rapid testing of diameter, roundness and conicity of bores
- Especially suitable for testing batches with tight tolerances **(for tolerances <10µm on request)**
- Rocking in the bore is unnecessary to determine the reversal point
- Ideal for use in conjunction with digital display units and for subsequent processing of measured values



- Measuring head has a hardened chromium plated guide cylinder and carbide tipped anvils
- The carbide expanding pin transfers radial movement to indicating instrument
- Constant measuring force as a result of built-in spring, thus eliminating user influence
- Extensive modular system is composed of measuring head, holder, depth extension, right angle attachments and depth stops

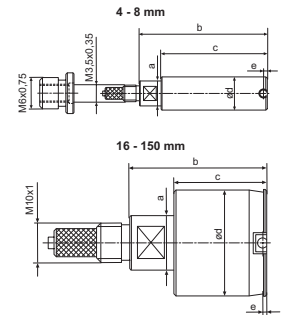
Technical Data

Order no.	Product type	Nominal size	Measuring span	Manufacturing tolerance	Linearity deviation fe	Repeatability f _w	Measuring value hysteresis f _u
		mm	mm	mm / mm		µm	µm
4478285	844 Dks	4.000 – 8.000	0.1	–0.02 / –0.04	2%, min. 1 µm	1	0.4
4478245	844 Dks	8.000 – 16.000	0.15	–0.02 / –0.04	2%, min. 1 µm	1	0.4
4478230	844 Dks	16.000 – 25.000	0.15	–0.02 / –0.05	2%, min. 1 µm	1	0.4
4478232	844 Dks	25.000 – 32.000	0.15	–0.02 / –0.05	2%, min. 1 µm	1	0.4
4478233	844 Dks	32.000 – 44.000	0.15	–0.03 / –0.06	2%, min. 1 µm	1	0.4
4478234	844 Dks	44.000 – 50.000	0.15	–0.03 / –0.06	2%, min. 1 µm	1	0.4
4478235	844 Dks	50.000 – 60.000	0.15	–0.03 / –0.06	2%, min. 1 µm	1	0.4
4478236	844 Dks	60.000 – 70.000	0.15	–0.03 / –0.06	2%, min. 1 µm	1	0.4
4478237	844 Dks	70.000 – 80.000	0.15	–0.04 / –0.07	2%, min. 1 µm	1	0.4
4478238	844 Dks	80.000 – 90.000	0.15	–0.04 / –0.07	2%, min. 1 µm	1	0.4
4478239	844 Dks	90.000 – 100.000	0.15	–0.04 / –0.07	2%, min. 1 µm	1	0.4
4478240	844 Dks	100.000 – 110.000	0.15	–0.04 / –0.07	2%, min. 1 µm	1	0.4
4478241	844 Dks	110.000 – 120.000	0.15	–0.04 / –0.07	2%, min. 1 µm	1	0.4
4478242	844 Dks	120.000 – 130.000	0.15	–0.04 / –0.07	2%, min. 1 µm	1	0.4
4478243	844 Dks	130.000 – 140.000	0.15	–0.04 / –0.07	2%, min. 1 µm	1	0.4
4478244	844 Dks	140.000 – 150.000	0.15	–0.04 / –0.07	2%, min. 1 µm	1	0.4

Indicating plug gage MaraMeter 844 Dks

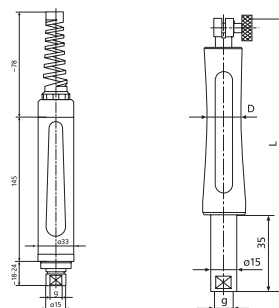
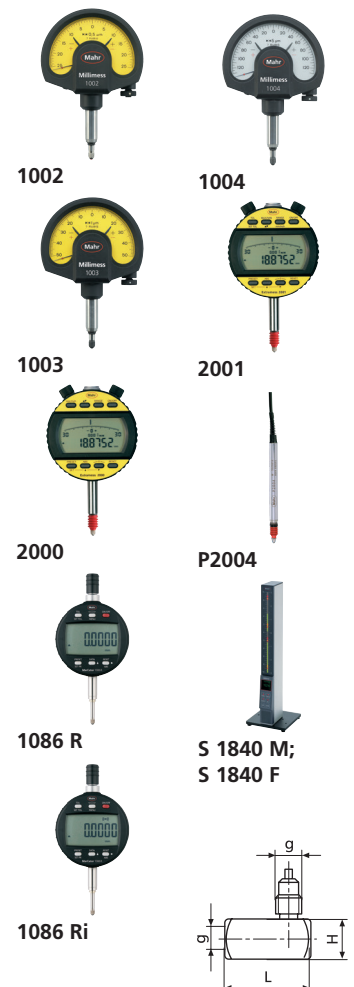


Order no.	a	b	c	e	g	Nominal size
	mm	mm	mm	mm		mm
4478285	7.9	30.4	22.4	0.6	M6 x 0,75	4.000 -8.000
4478245	7.9	31.1	22.6	0.6	M6 x 0,75	8.000 -16.000
4478230	15	39	26	1	M10 x 1	16.000 -25.000
4478232	15	39	26	1	M10 x 1	25.000 -32.000
4478233	15	39	26	1	M10 x 1	32.000 -44.000
4478234	20	39	25.5	1	M10 x 1	44.000 -50.000
4478235	20	39	25.5	1	M10 x 1	50.000 -60.000
4478236	20	39	25.5	1	M10 x 1	60.000 -70.000
4478237	20	39	32.5	1	M10 x 1	70.000 -80.000
4478238	20	39	32.5	1	M10 x 1	80.000 -90.000
4478239	20	39	32.5	1	M10 x 1	90.000 -100.000
4478240	20	39	32.5	1	M10 x 1	100.000 -110.000
4478241	20	39	32.5	1	M10 x 1	110.000 -120.000
4478242	20	39	32.5	1	M10 x 1	120.000 -130.000
4478243	20	39	32.5	1	M10 x 1	130.000 -140.000
4478244	20	39	32.5	1	M10 x 1	140.000 -150.000

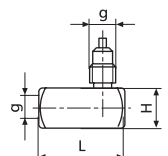


Accessories

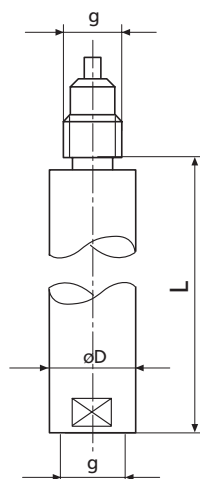
Order no.	g	Product name	Product type
4335000		Millimess 0.5 μm, ± 25 μm	1002
4334000		Millimess 1 μm, ± 50 μm	1003
4333000		Millimess 5 μm, ± 130 μm	1004
4337620		Digital Indicator, 0.0005 mm, 12.5 mm	1086 R
4337624		Digital Indicator, 0.0005 mm, 12.5 mm	1086 Ri
4346000		Inductive dial comparator, ± 0.9 μm	2000
4346100		Inductive dial comparator, ± 0.9 μm	2001
4478851	M10 x 1	Standard Holder - Standard version	844 Dg
4478020	M6 x 0,75	Holder for Inductive Measuring Probes	844 Dge
4478021	M10 x 1	Holder 844 for Inductive Measuring Probes	844 Dge
4478050	M10 x 1	Short Holder - Short version	844 Dgk
4478110	M10 x 1	Right Angle Attachment, L = 36.7 mm, H = 17 mm	844 Dw
4470851	M6 x 0,75	Standard measuring instrument holder	844 Kg
4470110	M6 x 0,75	Right Angle Attachment, L = 26.5 mm, H = 22.5 mm	844 Kw
5312010		Compact Amplifier	C1200
5323010	M 2,5	Inductive Probe, ± 2 mm	P2004
5318400		Compact column amplifier	S 1840 M



844 Dg



S 1840 M;
S 1840 F

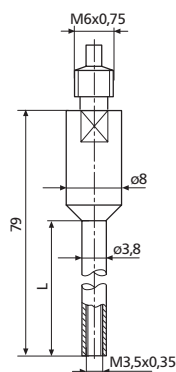


- For very deep bores
- Screws in between holder and measuring heads 844 Dk, 844 Dkr or 844 Dks
- Several extensions can be screwed together as of 8 mm
- Models 844 Dv and 844 Dvk made of Invar steel

Technical Data

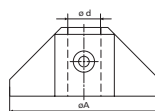
Order no.	Product type	Dimension L
		mm
4478080	844 Dv	64
4470070	844 Kv	64
4478070	844 Dv	64
4478071	844 Dv	80
4478072	844 Dv	100
4478073	844 Dv	125
4478074	844 Dv	250
4478075	844 Dv	500

Order no.	g	D	Dimension L	Product type (for table dimension)
		mm	mm	
4478080	M6x0,75 / M3,5x0,35	3.8	64	844 Dv
4470070	M6 x 0,75	8	64	844 Kv
4478070	M10 x 1	15	64	844 Dv
4478071	M10 x 1	15	80	844 Dv
4478072	M10 x 1	15	100	844 Dv
4478073	M10 x 1	15	125	844 Dv
4478074	M10 x 1	15	250	844 Dv
4478075	M10 x 1	15	500	844 Dv



Accessories

Order no.	Product name	Product type
4470115	Depth Stop, Mounting- \varnothing d = 8 mm, A = 24 mm, h = 60 mm	844 Dt
4478115	Depth Stop, Mounting- \varnothing d = 15 mm, A = 45 mm, h = 30 mm	844 Dt
4478116	Depth Stop, Mounting- \varnothing d = 15 mm, A = 75 mm, h = 30 mm	844 Dt
4478117	Depth Stop, Mounting- \varnothing d = 15 mm, A = 110 mm, h = 30 mm	844 Dt
4478118	Depth Stop, Mounting- \varnothing d = 15 mm, A = 160 mm, h = 30 mm	844 Dt
4478119	Depth Stop, Mounting- \varnothing d = 15 mm, A = 220 mm, h = 30 mm	844 Dt

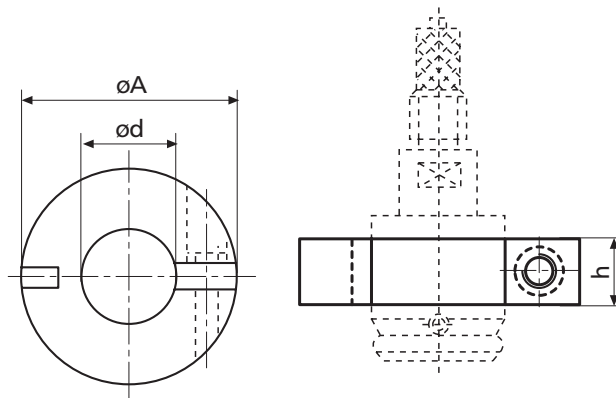


844 Dt



Depth Stop Ring MaraMeter 844 Dtr

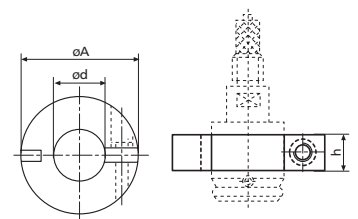
- For limiting depth of insertion of measuring head in bore
- Clamped onto the measuring head



Technical Data

Order no.	Product type	Mount diameter d	Stop surface diameter A
		mm	mm
4478130	844 Dtr	3 – 5 mm	27 mm
		>5 – 8 mm	30 mm
		>8 – 11 mm	33 mm
		>11 – 15 mm	37 mm
		>15 – 20 mm	42 mm
4478131	844 Dtr	>20 – 25 mm	50 mm
		>25 – 30 mm	55 mm
		>30 – 35 mm	60 mm
		>35 – 40 mm	65 mm
		>40 – 45 mm	70 mm
4478132	844 Dtr	>45 – 50 mm	75 mm
		>50 – 60 mm	85 mm
		>60 – 70 mm	95 mm
		>70 – 80 mm	105 mm
4478133	844 Dtr	>80 – 90 mm	115 mm
		>90 – 100 mm	125 mm

Order no.	Mount diameter d	Stop surface diameter A
	mm	mm
4478130	3 – 5 mm	27 mm
	>5 – 8 mm	30 mm
	>8 – 11 mm	33 mm
	>11 – 15 mm	37 mm
	>15 – 20 mm	42 mm
4478131	>20 – 25 mm	50 mm
	>25 – 30 mm	55 mm
	>30 – 35 mm	60 mm
	>35 – 40 mm	65 mm
	>40 – 45 mm	70 mm
4478132	>45 – 50 mm	75 mm
	>50 – 60 mm	85 mm
	>60 – 70 mm	95 mm
	>70 – 80 mm	105 mm
4478133	>80 – 90 mm	115 mm
	>90 – 100 mm	125 mm



Self centring dial bore gage MaraMeter 844 K



Application:

- Measuring the diameter, roundness and conicity of bores
- Spring loaded halves of measuring probe are split via expanding pin with precision lapped taper. This movement is transferred to indicating instrument

- Maximum wear resistance due to **hard chrome plating**
- Constant measuring force as a result of built-in spring, eliminating user influence
- Highly versatile, each gage covers a large range. Within the respective limits, quickly and easily adjustable to any size and any type of measuring application
- Extensive modular system is composed of measuring probe, holder, depth extensions, right angle attachments and depth stops
- **Scope of delivery:** Measuring holder, Probe, Expanding pin, Wooden case, excludes indicator

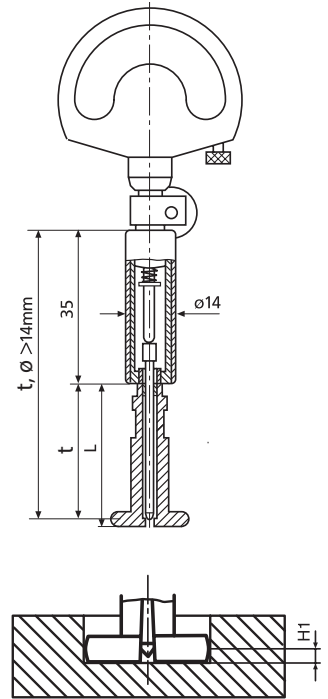
Technical Data

Order no.	Product type	Nominal size	Individual probe measuring range	Measuring range	Number of measuring probes	Linearity deviation fe	Repeatability f _w
		mm	mm	mm	Piece		µm
4470000	844 K	0,50	0,47 – 0,53	0.47 – 0.97	6	2%, min. 1 µm	1
		0,55	0,52 – 0,58				
		0,60	0,57 – 0,67				
		0,70	0,65 – 0,77				
		0,80	0,75 – 0,87				
		0,90	0,85 – 0,97				
4470001	844 K	1,00	0,95 – 1,15	0.95 – 1.55	5	2%, min. 1 µm	1
		1,10	1,07 – 1,25				
		1,20	1,17 – 1,35				
		1,30	1,27 – 1,45				
		1,40	1,37 – 1,55				
4470002	844 K	1,75	1,50 – 1,90	1.5 – 4.2	10	1%, min. 1 µm	1
		2,00	1,80 – 2,20				
		2,25	2,05 – 2,45				
		2,50	2,30 – 2,70				
		2,75	2,55 – 2,95				
		3,00	2,80 – 3,20				
		3,25	3,05 – 3,45				
		3,50	3,30 – 3,70				
		3,75	3,55 – 3,95				
		4,00	3,80 – 4,20				
4470003	844 K	4,00	3,70 – 4,30	3.7 – 7.3	7	1%, min. 1 µm	1
		4,50	4,20 – 4,80				
		5,00	4,70 – 5,30				
		5,50	5,20 – 5,80				
		6,00	5,70 – 6,30				
		6,50	6,20 – 6,80				
		7,00	6,70 – 7,30				
4470004	844 K	7,50	7,20 – 7,80	6.7 – 10.3	7	1%, min. 1 µm	1
		8,00	7,70 – 8,30				
		8,50	8,20 – 8,80				
		9,00	8,70 – 9,30				
		9,50	9,20 – 9,80				
		10,00	9,70 – 10,30				
4470005	844 K	10,00	9,40 – 10,60	9.4 – 18.6	9	1%, min. 1 µm	1
		11,00	10,40 – 11,60				
		12,00	11,40 – 12,60				
		13,00	12,40 – 13,60				
		14,00	13,40 – 14,60				
		15,00	14,40 – 15,60				
		16,00	15,40 – 16,60				
		17,00	16,40 – 17,60				
		18,00	17,40 – 18,60				

Self centring dial bore gage MaraMeter 844 K



Order no.	Nominal size	Individual probe measuring range	Dimension H1	L mm	Measuring depth
	mm	mm			mm
4470000	0,50	0,47 - 0,53	0,25	19,50	1,25
	0,55	0,52 - 0,58	0,27	19,50	1,5
	0,60	0,57 - 0,67	0,29	19,50	1,7
	0,70	0,65 - 0,77	0,31	19,50	2,2
	0,80	0,75 - 0,87	0,33	19,50	2,55
	0,90	0,85 - 0,97	0,35	19,50	2,65
4470001	1,00	0,95 - 1,15	0,6	19,50	10,5
	1,10	1,07 - 1,25	0,6	19,50	10,5
	1,20	1,17 - 1,35	0,6	19,50	10,5
	1,30	1,27 - 1,45	0,6	19,50	10,5
	1,40	1,37 - 1,55	0,6	19,50	10,5
4470002	1,75	1,50 - 1,90	0,9	25,30	16
	2,00	1,80 - 2,20	0,9	25,30	16
	2,25	2,05 - 2,45	0,9	25,30	16
	2,50	2,30 - 2,70	1,2	30,60	21
	2,75	2,55 - 2,95	1,2	30,60	21
	3,00	2,80 - 3,20	1,2	30,60	21
	3,25	3,05 - 3,45	1,2	30,60	21
	3,50	3,30 - 3,70	1,2	30,60	21
	3,75	3,55 - 3,95	1,2	30,60	21
	4,00	3,80 - 4,20	1,2	30,60	21
4470003	4,00	3,70 - 4,30	2,0	47,30	38
	4,50	4,20 - 4,80	2,0	47,30	38
	5,00	4,70 - 5,30	2,0	47,30	38
	5,50	5,20 - 5,80	2,0	47,30	38
	6,00	5,70 - 6,30	2,0	47,30	38
	6,50	6,20 - 6,80	2,0	47,30	38
	7,00	6,70 - 7,30	2,0	47,30	38
4470004	7,50	7,20 - 7,80	2,0	47,30	38
	8,00	7,70 - 8,30	2,0	47,30	38
	8,50	8,20 - 8,80	2,0	47,30	45
	9,00	8,70 - 9,30	2,0	47,30	45
	9,50	9,20 - 9,80	2,0	47,30	45
	10,00	9,70 - 10,30	2,0	47,30	45
4470005	10,00	9,40 - 10,60	3,3	48,50	45
	11,00	10,40 - 11,60	3,3	48,50	45
	12,00	11,40 - 12,60	3,3	48,50	45
	13,00	12,40 - 13,60	3,3	48,50	45
	14,00	13,40 - 14,60	3,3	48,50	45
	15,00	14,40 - 15,60	3,3	48,50	45
	16,00	15,40 - 16,60	3,3	48,50	80
	17,00	16,40 - 17,60	3,3	48,50	80
	18,00	17,40 - 18,60	3,3	48,50	80

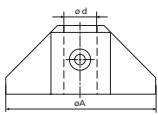




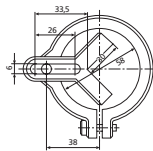
Self centring dial bore gage MaraMeter 844 K

Accessories

Order no.	g	Product name	Product type
4335000		Millimess 0.5 μm , $\pm 25 \mu\text{m}$	1002
4334000		Millimess 1 μm , $\pm 50 \mu\text{m}$	1003
4333000		Millimess 5 μm , $\pm 130 \mu\text{m}$	1004
4337662		Digital Indicator, 0.0005 mm, 12.5 mm	1087 BR
4337664		Digital Indicator, 0.0005 mm, 12.5 mm	1087 BRi
4346100		Inductive dial comparator, $\pm 0.9 \mu\text{m}$	2001
4470115		Depth Stop, Mounting- $\varnothing d = 8 \text{ mm}$, $A = 24 \text{ mm}$, $h = 60 \text{ mm}$	844 Dt
4470120		Clampable angle stop for 844 Kst measuring stand	844 Ka
4470160		Ring gage sets, 0.5 / 0.55 / 0.6 / 0.7 / 0.8 / 0.9 mm	844 Ke
4470161		Ring gage sets, 1 / 1.1 / 1.2 / 1.3 / 1.4 mm	844 Ke
4470162		Ring gage sets, 1.75 / 2 / 2.25 / 2.5 / 2.75 / 3 / 3.25 / 3.5 / 3.75 / 4 mm	844 Ke
4470163		Ring gage sets, 4 / 4.5 / 5 / 5.5 / 6 / 6.5 / 7 mm	844 Ke
4470164		Ring gage sets, 7 / 7.5 / 8 / 8.5 / 9 / 9.5 / 10 mm	844 Ke
4470165		Ring gage sets, 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 mm	844 Ke
4470100		Measuring stand for quick measurements, Table diameter 58 mm, Max. object height approx. 100 mm	844 Kst
4470105		Floating holder for 844 Kst measuring stand	844 Ksts
4470070	M6 x 0,75	Extensions, $D = 8 \text{ mm}$, $L = 64 \text{ mm}$	844 Kv
4470110	M6 x 0,75	Right Angle Attachment, $L = 26.5 \text{ mm}$, $H = 22.5 \text{ mm}$	844 Kw



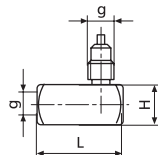
844 Dt



844 Ka



844 Kst



844 Kw / 844 Dw



1087 BRi



1087 BR



2001



1002



1003



1004



Self centring dial bore gage MaraMeter 844 KH

- Maximum wear-resistance due to **carbide tipped** faces
- Constant measuring force as a result of built-in spring thus eliminating user influence
- Highly versatile, each gage covers a large range. Within the respective limits, quickly and easily adjustable to any size and any type of measuring application
- Extensive modular system is composed of measuring probe, holder, depth extensions, right angle attachments and depth stops
- **Scope of delivery:** Measuring holder, Probe, Expanding pin, Wooden case, excludes indicator



Application:

- Measuring the diameter, roundness and conicity of bores
- Spring loaded halves of measuring probe are split via expanding pin with precision lapped taper. This movement is transferred to indicating instrument

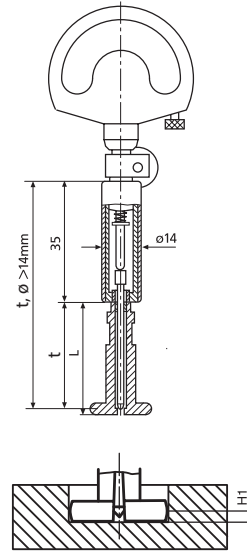
Technical Data

Order no.	Product type	Nominal size	Individual probe measuring range mm	Measuring range	Number of measuring probes	Linearity deviation fe	Repeatability f _w
		mm	mm	mm	Piece		µm
4471002	844 KH	1,75	1,50 - 1,90	1.5 - 4.2	10	1%, min. 1 µm	1
		2,00	1,80 - 2,20				
		2,25	2,05 - 2,45				
		2,50	2,30 - 2,70				
		2,75	2,55 - 2,95				
		3,00	2,80 - 3,20				
		3,25	3,05 - 3,45				
		3,50	3,30 - 3,70				
		3,75	3,55 - 3,95				
		4,00	3,80 - 4,20				
4471003	844 KH	4,00	3,70 - 4,30	3.7 - 7.3	7	1%, min. 1 µm	1
		4,50	4,20 - 4,80				
		5,00	4,70 - 5,30				
		5,50	5,20 - 5,80				
		6,00	5,70 - 6,30				
		6,50	6,20 - 6,80				
7,00	6,70 - 7,30						
4471004	844 KH	7,50	7,20 - 7,80	6.7 - 10.3	7	1%, min. 1 µm	1
		8,00	7,70 - 8,30				
		8,50	8,20 - 8,80				
		9,00	8,70 - 9,30				
		9,50	9,20 - 9,80				
		10,00	9,70 - 10,30				
4471005	844 KH	10,00	9,40 - 10,60	9.4 - 18.6	9	1%, min. 1 µm	1
		11,00	10,40 - 11,60				
		12,00	11,40 - 12,60				
		13,00	12,40 - 13,60				
		14,00	13,40 - 14,60				
		15,00	14,40 - 15,60				
		16,00	15,40 - 16,60				
		17,00	16,40 - 17,60				
		18,00	17,40 - 18,60				



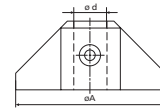
Self centring dial bore gage MaraMeter 844 KH

Order no.	Nominal size mm	Individual probe mea- suring range mm	Dimension H1	L mm	Measuring depth mm
4471002	1,75	1,50 – 1,90	0,9	25,30	16
	2,00	1,80 – 2,20	0,9	25,30	16
	2,25	2,05 – 2,45	0,9	25,30	16
	2,50	2,30 – 2,70	1,2	30,60	21
	2,75	2,55 – 2,95	1,2	30,60	21
	3,00	2,80 – 3,20	1,2	30,60	21
	3,25	3,05 – 3,45	1,2	30,60	21
	3,50	3,30 – 3,70	1,2	30,60	21
	3,75	3,55 – 3,95	1,2	30,60	21
	4,00	3,80 – 4,20	1,2	30,60	21
4471003	4,00	3,70 – 4,30	2,0	47,30	38
	4,50	4,20 – 4,80	2,0	47,30	38
	5,00	4,70 – 5,30	2,0	47,30	38
	5,50	5,20 – 5,80	2,0	47,30	38
	6,00	5,70 – 6,30	2,0	47,30	38
	6,50	6,20 – 6,80	2,0	47,30	38
	7,00	6,70 – 7,30	2,0	47,30	38
4471004	7,50	7,20 – 7,80	2,0	47,30	38
	8,00	7,70 – 8,30	2,0	47,30	38
	8,50	8,20 – 8,80	2,0	47,30	45
	9,00	8,70 – 9,30	2,0	47,30	45
	9,50	9,20 – 9,80	2,0	47,30	45
	10,00	9,70 – 10,30	2,0	47,30	45
4471005	10,00	9,40 – 10,60	3,3	48,50	45
	11,00	10,40 – 11,60	3,3	48,50	45
	12,00	11,40 – 12,60	3,3	48,50	45
	13,00	12,40 – 13,60	3,3	48,50	45
	14,00	13,40 – 14,60	3,3	48,50	45
	15,00	14,40 – 15,60	3,3	48,50	45
	16,00	15,40 – 16,60	3,3	48,50	80
	17,00	16,40 – 17,60	3,3	48,50	80
	18,00	17,40 – 18,60	3,3	48,50	80

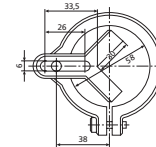


Accessories

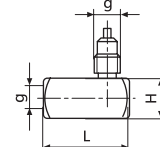
Order no.	g	Product name	Product type
4335000		Millimess 0.5 µm, ± 25 µm	1002
4334000		Millimess 1 µm, ± 50 µm	1003
4333000		Millimess 5 µm, ± 130 µm	1004
4337662		Digital Indicator, 0.0005 mm, 12.5 mm	1087 BR
4337664		Digital Indicator, 0.0005 mm, 12.5 mm	1087 BRi
4346100		Inductive dial comparator, ± 0.9 µm	2001
4470115		Depth Stop, Mounting-ø d = 8 mm, A = 24 mm, h = 60 mm	844 Dt
4470120		Clampable angle stop for 844 Kst measuring stand	844 Ka
4470162		Ring gage sets, 1.75 / 2 / 2.25 / 2.5 / 2.75 / 3 / 3.25 / 3.5 / 3.75 / 4 mm	844 Ke
4470163		Ring gage sets, 4 / 4.5 / 5 / 5.5 / 6 / 6.5 / 7 mm	844 Ke
4470164		Ring gage sets, 7 / 7.5 / 8 / 8.5 / 9 / 9.5 / 10 mm	844 Ke
4470165		Ring gage sets, 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 mm	844 Ke
4470100		Measuring stand for quick measurements, Table diameter 58 mm, Max. object height approx. 100 mm	844 Kst
4470105		Floating holder for 844 Kst measuring stand	844 Ksts
4470070	M6 x 0,75	Extensions, D = 8 mm, L = 64 mm	844 Kv
4470110	M6 x 0,75	Right Angle Attachment, L = 26.5 mm, H = 22.5 mm	844 Kw



844 Dt



844 Ka



844 Kw / 844 Dw



1087 BR



2001



1002



1003



844 Kst



1004



1087 BRi



Self centring dial bore gage MaraMeter 844 KS

- Maximum wear resistance due to **hard chrome plating**
- Constant measuring force as a result of built-in spring, thus eliminating user influence
- Highly versatile, each gage covers a large range. Within the respective limits, quickly and easily adjustable to any size and any type of measuring application
- Extensive modular system is composed of measuring probe, holder, depth extensions, right angle attachments and depth stops
- **Scope of delivery:** Measuring holder, Probe, Expanding pin, Wooden case, excludes indicator



Application:

- Measuring the diameter, roundness and conicity of bores
- Spring loaded halves of measuring probe are split via expanding pin with precision lapped taper. This movement is transferred to indicating instrument

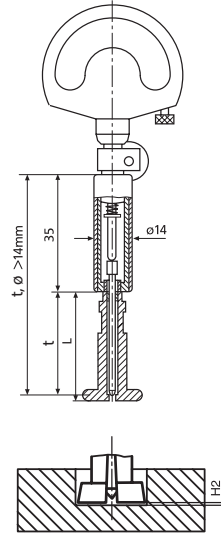
Technical Data

Order no.	Product type	Nominal size	Individual probe measuring range mm	Measuring range	Number of measuring probes	Linearity deviation fe	Repeatability f _w
		mm	mm	mm	Piece		µm
4482163	844 KS	1,75	1,50 - 1,90	1.5 - 4.2	10	1%, min. 1 µm	1
		2,00	1,80 - 2,20				
		2,25	2,05 - 2,45				
		2,50	2,30 - 2,70				
		2,75	2,55 - 2,95				
		3,00	2,80 - 3,20				
		3,25	3,05 - 3,45				
		3,50	3,30 - 3,70				
		3,75	3,55 - 3,95				
		4,00	3,80 - 4,20				
4482164	844 KS	4,00	3,70 - 4,30	3.7 - 7.3	7	1%, min. 1 µm	1
		4,50	4,20 - 4,80				
		5,00	4,70 - 5,30				
		5,50	5,20 - 5,80				
		6,00	5,70 - 6,30				
		6,50	6,20 - 6,80				
7,00	6,70 - 7,30						
4482165	844 KS	7,50	7,20 - 7,80	6.7 - 10.3	7	1%, min. 1 µm	1
		8,00	7,70 - 8,30				
		8,50	8,20 - 8,80				
		9,00	8,70 - 9,30				
		9,50	9,20 - 9,80				
		10,00	9,70 - 10,30				
4482166	844 KS	10,00	9,40 - 10,60	9.4 - 18.6	9	1%, min. 1 µm	1
		11,00	10,40 - 11,60				
		12,00	11,40 - 12,60				
		13,00	12,40 - 13,60				
		14,00	13,40 - 14,60				
		15,00	14,40 - 15,60				
		16,00	15,40 - 16,60				
		17,00	16,40 - 17,60				
		18,00	17,40 - 18,60				



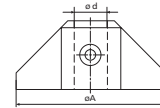
Self centring dial bore gage MaraMeter 844 KS

Order no.	Nominal size mm	Individual probe measuring range mm	Dimension H1	L mm	Measuring depth mm
4482163	1,75	1,50 - 1,90	0,3	25,30	16
	2,00	1,80 - 2,20	0,3	25,30	16
	2,25	2,05 - 2,45	0,3	25,30	16
	2,50	2,30 - 2,70	0,3	30,60	21
	2,75	2,55 - 2,95	0,3	30,60	21
	3,00	2,80 - 3,20	0,3	30,60	21
	3,25	3,05 - 3,45	0,3	30,60	21
	3,50	3,30 - 3,70	0,3	30,60	21
	3,75	3,55 - 3,95	0,3	30,60	21
	4,00	3,80 - 4,20	0,3	30,60	21
4482164	4,00	3,70 - 4,30	0,5	47,30	38
	4,50	4,20 - 4,80	0,5	47,30	38
	5,00	4,70 - 5,30	0,5	47,30	38
	5,50	5,20 - 5,80	0,5	47,30	38
	6,00	5,70 - 6,30	0,5	47,30	38
	6,50	6,20 - 6,80	0,5	47,30	38
	7,00	6,70 - 7,30	0,5	47,30	38
4482165	7,50	7,20 - 7,80	0,5	47,30	38
	8,00	7,70 - 8,30	0,5	47,30	38
	8,50	8,20 - 8,80	0,5	47,30	45
	9,00	8,70 - 9,30	0,5	47,30	45
	9,50	9,20 - 9,80	0,5	47,30	45
	10,00	9,70 - 10,30	0,5	47,30	45
4482166	10,00	9,40 - 10,60	1,0	48,50	45
	11,00	10,40 - 11,60	1,0	48,50	45
	12,00	11,40 - 12,60	1,0	48,50	45
	13,00	12,40 - 13,60	1,0	48,50	45
	14,00	13,40 - 14,60	1,0	48,50	45
	15,00	14,40 - 15,60	1,0	48,50	45
	16,00	15,40 - 16,60	1,0	48,50	80
	17,00	16,40 - 17,60	1,0	48,50	80
	18,00	17,40 - 18,60	1,0	48,50	80

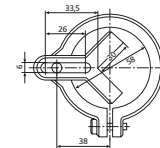


Accessories

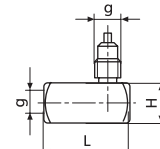
Order no.	g	Product name	Product type
4335000		Millimess 0.5 µm, ± 25 µm	1002
4334000		Millimess 1 µm, ± 50 µm	1003
4333000		Millimess 5 µm, ± 130 µm	1004
4337662		Digital Indicator, 0.0005 mm, 12.5 mm	1087 BR
4337664		Digital Indicator, 0.0005 mm, 12.5 mm	1087 BRi
4346100		Inductive dial comparator, ± 0.9 µm	2001
4470115		Depth Stop, Mounting-ø d = 8 mm, A = 24 mm, h = 60 mm	844 Dt
4470120		Clampable angle stop for 844 Kst measuring stand	844 Ka
4470162		Ring gage sets, 1.75 / 2 / 2.25 / 2.5 / 2.75 / 3 / 3.25 / 3.5 / 3.75 / 4 mm	844 Ke
4470163		Ring gage sets, 4 / 4.5 / 5 / 5.5 / 6 / 6.5 / 7 mm	844 Ke
4470164		Ring gage sets, 7 / 7.5 / 8 / 8.5 / 9 / 9.5 / 10 mm	844 Ke
4470165		Ring gage sets, 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 mm	844 Ke
4470100		Measuring stand for quick measurements, Table diameter 58 mm, Max. object height approx. 100 mm	844 Kst
4470105		Floating holder for 844 Kst measuring stand	844 Ksts
4470070	M6 x 0,75	Extensions, D = 8 mm, L = 64 mm	844 Kv
4470110	M6 x 0,75	Right Angle Attachment, L = 26.5 mm, H = 22.5 mm	844 Kw



844 Dt



844 Ka



844 Kw / 844 Dw



1087 BR



2001



1002



1003



844 Kst



1004



1087 BRi

Adjustable Bore Gage MaraMeter 1280P



- Rugged construction for long life and low maintenance: Stainless steel gaging head, one piece centralizing yoke with replaceable tungsten carbide balls
- Heavy duty indicator for housing projects
- Flow-through design makes Series 1280P Bore Gages rinse clean, no disassembly required
- Outstanding stability: Holds mastered value
- All 1280P gages have a removable handle as a part of the Indicator Housing



Application:

Internal Diameter Bore Measurement

Technical Data

Order no.	Product type	Measuring range inch	Graduation value inch	Distance of movable anvil inch	Indicating instrument (included in package)	Measuring depth inch
2050095	1280P-1W1	.50 – 1.0"	.0001"	.025"	IDT-232 Indicator (22I-RC)	3"
2050124	1280P-2W2	1.0 – 2.0"	.0001"	.025"	IDT-232 Indicator (22I-RC)	6"
2050164	1280P-3W2	2.0 – 8.0"	.0001"	.025"	IDT-232 Indicator (22I-RC)	6"
2050096	1280P-1W2	.50 – 1.0"	.0001"	.025"	IDT-232 Indicator (22I-RC)	6"
2050125	1280P-2W3	1.0 – 2.0"	.0001"	.025"	IDT-232 Indicator (22I-RC)	12"
2050165	1280P-3W3	2.0 – 8.0"	.0001"	.025"	IDT-232 Indicator (22I-RC)	12"

Technical Data

Order no.	Product type	Measuring range mm	Resolution mm	Graduation value mm	Distance of movable anvil mm	Indicating instrument (included in package)	Measuring depth mm
2050086	1280P-1MW1	12.5 – 25	0.002	0.002	0.63	IDS-237 Indicator (P1I-RC)	76
2050109	1280P-2MW2	25 – 50	0.002	0.002	0.63	IDS-237 Indicator (P1I-RC)	150
2050143	1280P-3MW2	50 – 200	0.002	0.002	0.63	IDS-237 Indicator (P1I-RC)	150
2050087	1280P-1MW2	12.5 – 25	0.002	0.002	0.63	IDS-237 Indicator (P1I-RC)	150
2050110	1280P-2MW3	25 – 50	0.002	0.002	0.63	IDS-237 Indicator (P1I-RC)	300
2050144	1280P-3MW3	50 – 200	0.002	0.002	0.63	IDS-237 Indicator (P1I-RC)	300

Adjustable Bore Gage MaraMeter 1280P



Order no.	Product name	Product type
2225972	Extension point, carbide, 12–16 mm / .50 –.625" for 128XP-1XXX	PT-562
2225977	Extension point, carbide, 16–19 mm / .625 –.75" for 128XP-1XXX	PT-567
2225978	Extension point, carbide, 19–22 mm / .75 –.875" for 128XP-1XXX	PT-568
2225966	Extension point, carbide, 22–25 mm / .875 –1" for 128XP-1XXX	PT-557
2225967	Extension point, steel, 12–16 mm / .50 –.625" for 128XP-1XXX	PT-558
2225968	Extension point, steel, 16–19 mm / .625 –.75" for 128XP-1XXX	PT-559
2225970	Extension point, steel, 19–22 mm / .75 –.875" for 128XP-1XXX	PT-560
2225971	Extension point, steel, 22–25 mm / .875 –1" for 128XP-1XXX	PT-561
2225963	Extension point, carbide, 25–32 mm / 1 –1.25" for 128XP-2XXX	PT-554
2225962	Extension point, carbide, 32–38 mm / 1.25 –1.5" for 128XP-2XXX	PT-553
2225961	Extension point, carbide, 38–45 mm / 1.5 –1.75" for 128XP-2XXX	PT-552
2225959	Extension point, carbide, 45–50 mm / 1.75 –2" for 128XP-2XXX	PT-550
2225964	Extension point, steel, 25–32 mm / 1 –1.25" for 128XP-2XXX	PT-555
2225965	Extension point, steel, 32–38 mm / 1.25 –1.5" for 128XP-2XXX	PT-556
2225979	Extension point, steel, 38–45 mm / 1.5 –1.75" for 128XP-2XXX	PT-569
2225960	Extension point, steel, 45–50 mm / 1.75 –2" for 128XP-2XXX	PT-551
2225866	Extension point, steel, for 128XP-3XXX	PT-2224
2225766	Extension point, carbide for 128XP-3XXX	PT-156
2218618	Extension set 50–64 mm/ 2–2.5" for 128XP-3XXX	EX-222
2218619	Extension set 64–76 mm/ 2.5–3" for 128XP-3XXX	EX-223
2218620	Extension set 76–89 mm/ 3–3.5" for 128XP-3XXX	EX-224
2218621	Extension set 89–100 mm/ 3.5–4" for 128XP-3XXX	EX-225
2218622	Extension set for 100–127 mm/ 4–5" (use with EX-223) and for 127–152mm/ 5–6" (use with EX-225) for 128XP-3XXX	EX-226
2218623	Extension set for 152–178 mm/ 6–7" (use with EX-223) and for 178–200mm/ 7–8" (use with EX-225) for 128XP-3XXX	EX-228

Adjustable Bore Gage MaraMeter 1282P



- Rugged construction for long life and low maintenance: Stainless steel gaging head, one piece centralizing yoke with replaceable tungsten carbide balls
- Heavy duty Indicator for housing protects
- Flow-through design makes Series 1280P Bore Gages rinse clean, no disassembly required
- Outstanding stability: Holds mastered value
- If gage capacity is 25 mm / 1" or greater, the Maxµm®III Indicator is covered with a cast aluminum protective housing
- **Data interface:** Digimatic, RS232C, USB
- **Energy supply:** Battery operation



Application:

Internal Diameter Bore Measurement

Technical Data

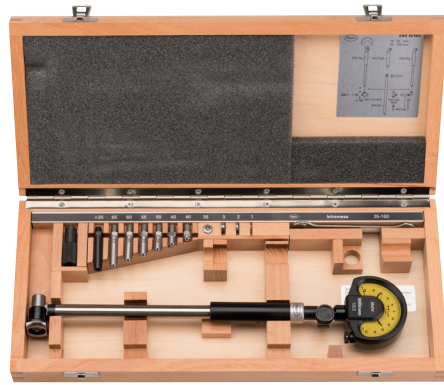
Order no.	Product type	Measuring range		Resolution		Graduation value		Distance of movable anvil		Measuring depth	
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
2050277	1282P-1W1	12-25	.50-1"	0.001	.00005"	0.001	.001"	0.39	.020"	76	3"
2050306	1282P-2W2	25-50	1-2"	0.001	.00005"	0.001	.001"	0.39	.020"	150	6"
2050346	1282P-3W2	50-203	2-8"	0.001	.00005"	0.001	.001"	0.39	.020"	150	6"
2050278	1282P-1W2	12-25	.50-1"	0.001	.00005"	0.001	.001"	0.39	.020"	150	6"
2050307	1282P-2W3	25-50	1-2"	0.001	.00005"	0.001	.001"	0.39	.020"	300	12"
2050347	1282P-3W3	50-203	2-8"	0.001	.00005"	0.001	.001"	0.39	.020"	300	12"

Accessories

Order no.	Product name	Product type
2225972	Extension point, carbide, 12-16 mm / .50-.625" for 128XP-1XXX	PT-562
2225977	Extension point, carbide, 16-19 mm / .625-.75" for 128XP-1XXX	PT-567
2225978	Extension point, carbide, 19-22 mm / .75-.875" for 128XP-1XXX	PT-568
2225966	Extension point, carbide, 22-25 mm / .875-1" for 128XP-1XXX	PT-557
2225967	Extension point, steel, 12-16 mm / .50-.625" for 128XP-1XXX	PT-558
2225968	Extension point, steel, 16-19 mm / .625-.75" for 128XP-1XXX	PT-559
2225970	Extension point, steel, 19-22 mm / .75-.875" for 128XP-1XXX	PT-560
2225971	Extension point, steel, 22-25 mm / .875-1" for 128XP-1XXX	PT-561
2225963	Extension point, carbide, 25-32 mm / 1-1.25" for 128XP-2XXX	PT-554
2225962	Extension point, carbide, 32-38 mm / 1.25-1.5" for 128XP-2XXX	PT-553
2225961	Extension point, carbide, 38-45 mm / 1.5-1.75" for 128XP-2XXX	PT-552
2225959	Extension point, carbide, 45-50 mm / 1.75-2" for 128XP-2XXX	PT-550
2225964	Extension point, steel, 25-32 mm / 1-1.25" for 128XP-2XXX	PT-555
2225965	Extension point, steel, 32-38 mm / 1.25-1.5" for 128XP-2XXX	PT-556
2225979	Extension point, steel, 38-45 mm / 1.5-1.75" for 128XP-2XXX	PT-569
2225960	Extension point, steel, 45-50 mm / 1.75-2" for 128XP-2XXX	PT-551
2225866	Extension point, steel, for 128XP-3XXX	PT-2224
2225766	Extension point, carbide for 128XP-3XXX	PT-156
2218618	Extension set 50-64 mm/ 2-2.5" for 128XP-3XXX	EX-222
2218619	Extension set 64-76 mm/ 2.5-3" for 128XP-3XXX	EX-223
2218620	Extension set 76-89 mm/ 3-3.5" for 128XP-3XXX	EX-224
2218621	Extension set 89-100 mm/ 3.5-4" for 128XP-3XXX	EX-225
2218622	Extension set for 100-127 mm/ 4-5" (use with EX-223) and for 127-152mm/ 5-6" (use with EX-225) for 128XP-3XXX	EX-226
2218623	Extension set for 152-178 mm/ 6-7" (use with EX-223) and for 178-200mm/ 7-8" (use with EX-225) for 128XP-3XXX	EX-228



Self centring dial bore gage MaraMeter 844 N



Application:

- Measuring the diameter, roundness and conical form of a bore as well as the distances of parallel plane surfaces

Technical Data

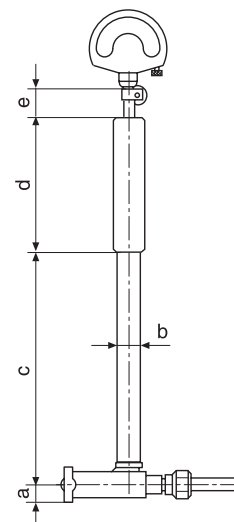
Order no.	Product type	Measuring range		Distance of movable anvil	Measuring depth	Error limit G_e	Repeatability f_w
		mm	inch				
4474000	844 N	18 – 50	.7 – 2"	1.3	115	2	0.5
4474001	844 N	35 – 100	1.4 – 4"	1.3	148	2	0.5
4474002	844 N	100 – 250	4 – 10"	1.6	230	2	0.5
4474003	844 N	250 – 400	10 – 16"	2.6	366	3	1.5
4474004	844 N	400 – 800	16 – 32"	2.6	366	3	1.5
4474005	844 N	250 – 800	10 – 32"	2.6	366	3	1.5

- Measuring head consists of a carbide tipped moving anvil and an interchangeable stationary anvil with a hardened steel ball
- Transmission lever system transfers movement of the movable anvil to indicating instrument
- The broad centering bridge ensures automatic centering in the bore
- Resistant to temperature because the shank and transfer rod are made of heat resistant Invar steel
- Highly resistant to wear and tear because of carbide tipped moving anvil
- Constant measuring force due to built-in spring, eliminating user influence
- Universally applicable and extremely versatile as every instrument spans a broad measuring range, within this range it is quick and easy to adjust to any size
- Extensive modular system is composed of measuring head, holder, extensions, right angle attachments and depth stops
- **Invar steel** has a particularly low expansion coefficient and thus makes the instrument totally insensitive to any kind of heat. Body heat from the user, increases in ambient temperature have no influence on the measuring results
- **Scope of delivery:** Measuring holder, Measuring Head, Anvil spindle, Wooden case, excludes indicator

Self centring dial bore gage MaraMeter 844 N



Order no.	a	b	c	d	e
	mm	mm	mm	mm	mm
4474000	5.3	8	115	63	22
4474001	8.5	12	148	80	22
4474002	11.5	18	230	100	25
4474003	16	24	366	110	28
4474004	17.5	24	366	110	28
4474005	17.5	24	366	110	28



Accessories

Order no.	Product name	Product type
4335000	Millimess 0.5 μm , $\pm 25 \mu\text{m}$	1002
4334000	Millimess 1 μm , $\pm 50 \mu\text{m}$	1003
4333000	Millimess 5 μm , $\pm 130 \mu\text{m}$	1004
4337662	Digital Indicator, 0.0005 mm, 12.5 mm	1087 BR
4337664	Digital Indicator, 0.0005 mm, 12.5 mm	1087 BRi
4346100	Inductive dial comparator, $\pm 0.9 \mu\text{m}$	2001
4800120	Holder, Measuring span 0 – 70mm	420 h
4800121	Holder, Measuring span 0 – 120mm	420 h
4800122	Holder, Measuring span 100 – 220mm	420 h
4800123	Holder, Measuring span 100 – 420mm	420 h
4800124	Holder, Measuring span 400 – 820mm	420 h
4474080	Adjustment bridge (70 x 12 mm), for measuring range 18 – 250 mm	844 Neb
4474081	Adjustment bridge (165 x 17 mm), for measuring range 18 – 400 mm	844 Neb
4474050	Short holder (18 – 50 mm)	844 Ngk
4474051	Short holder (35 – 100 mm)	844 Ngk
4474052	Short holder (100 – 250 mm)	844 Ngk
4474053	Short holder (250 – 800 mm)	844 Ngk
4474060	Extension (250 mm) for measuring range 35 – 100 mm	844 Nv
4474061	Extension (250 mm) for measuring range 100 – 250 mm	844 Nv
4474062	Extension (500 mm) for measuring range 100 – 250 mm	844 Nv
4474063	Extension (250 mm) for measuring range 250 – 800 mm	844 Nv
4474064	Extension (500 mm) for measuring range 250 – 800 mm	844 Nv
4474066	Extension (250 mm) for measuring range 18 – 50 mm	844 Nv
4474070	Right angle attachment, Bore depth 45mm, for measuring range 18 – 50 mm	844 Nw
4474071	Right angle attachment, Bore depth 55mm, for measuring range 35 – 100 mm	844 Nw
4474072	Right angle attachment, Bore depth 70mm, for measuring range 100 – 250 mm	844 Nw
4470098	Base for mounting holder 420 h up to 420 mm	844 ef
4470095	Measuring jaw for holder 420 h	844 em



1004



1003



1002



1087 BR



1087 BRi



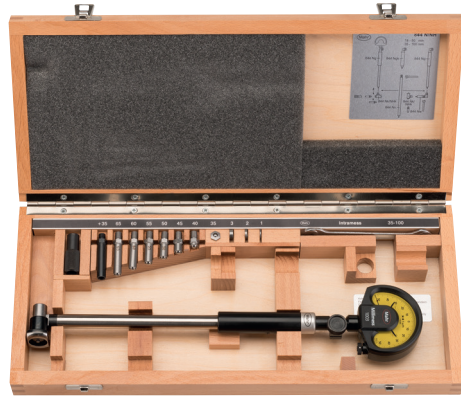
2001



844 em;844 ef



Self centring dial bore gage MaraMeter 844 NH



Application:

- Measuring the diameter, roundness and conical form of a bore as well as the distances of parallel plane surfaces

Technical Data

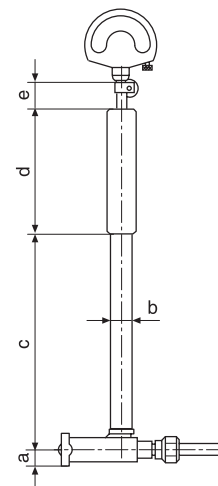
Order no.	Product type	Measuring range		Distance of movable anvil	Measuring depth	Error limit G_e	Repeatability f_w
		mm	inch				
4475000	844 NH	18 – 50	.7 – 2"	1.3	115	2	0.5
4475001	844 NH	35 – 100	1.4 – 4"	1.3	148	2	0.5
4475002	844 NH	100 – 250	4 – 10"	1.6	230	2	0.5
4475003	844 NH	250 – 400	10 – 16"	2.6	336	3	1.5
4475004	844 NH	400 – 800	16 – 32"	2.6	336	3	1.5
4475005	844 NH	250 – 800	10 – 32"	2.6	336	3	1.5

- Measuring head consists of a carbide tipped moving anvil and an interchangeable stationary anvil with a **carbide ball**
- Transmission lever system transfers movement of the movable anvil to indicating instrument
- The broad centering bridge ensures automatic centering in the bore
- Resistant to temperature because the shank and transfer rod are made of **heat resistant Invar steel**
- Highly resistant to wear and tear due to the carbide tipped moving anvil
- Constant measuring force due to built-in spring, eliminating user influence
- Universally applicable and extremely versatile as every instrument spans a broad measuring range, within this range it is quick and easy to adjust to any size
- Extensive modular system is composed of measuring head, holder, extensions, right angle attachments and depth stops
- **Invar steel** has a particularly low expansion coefficient and thus makes the instrument totally insensitive to any kind of heat. Body heat from the user, increases in ambient temperature have no influence on the measuring results
- **Scope of delivery:** Measuring holder, Measuring Head, Anvil spindle, Wooden case, excludes indicator

Self centring dial bore gage MaraMeter 844 NH



Order no.	a	b	c	d	e
	mm	mm	mm	mm	mm
4475000	5.3	8	115	63	22
4475001	8.5	12	148	80	22
4475002	11.5	18	230	100	25
4475003	16	24	366	110	28
4475004	17.5	24	366	110	28
4475005	17.5	24	366	110	28



Accessories

Order no.	Product name	Product type
4335000	Millimess 0.5 μm , $\pm 25 \mu\text{m}$	1002
4334000	Millimess 1 μm , $\pm 50 \mu\text{m}$	1003
4333000	Millimess 5 μm , $\pm 130 \mu\text{m}$	1004
4337662	Digital Indicator, 0.0005 mm, 12.5 mm	1087 BR
4337664	Digital Indicator, 0.0005 mm, 12.5 mm	1087 BRI
4346100	Inductive dial comparator, $\pm 0.9 \mu\text{m}$	2001
4800120	Holder, Measuring span 0 – 70mm	420 h
4800121	Holder, Measuring span 0 – 120mm	420 h
4800122	Holder, Measuring span 100 – 220mm	420 h
4800123	Holder, Measuring span 100 – 420mm	420 h
4800124	Holder, Measuring span 400 – 820mm	420 h
4474080	Adjustment bridge (70 x 12 mm), for measuring range 18 – 250 mm	844 Neb
4474081	Adjustment bridge (165 x 17 mm), for measuring range 18 – 400 mm	844 Neb
4474050	Short holder (18 – 50 mm)	844 Ngk
4474051	Short holder (35 – 100 mm)	844 Ngk
4474052	Short holder (100 – 250 mm)	844 Ngk
4474053	Short holder (250 – 800 mm)	844 Ngk
4474060	Extension (250 mm) for measuring range 35 – 100 mm	844 Nv
4474061	Extension (250 mm) for measuring range 100 – 250 mm	844 Nv
4474062	Extension (500 mm) for measuring range 100 – 250 mm	844 Nv
4474063	Extension (250 mm) for measuring range 250 – 800 mm	844 Nv
4474064	Extension (500 mm) for measuring range 250 – 800 mm	844 Nv
4474066	Extension (250 mm) for measuring range 18 – 50 mm	844 Nv
4474070	Right angle attachment, Bore depth 45mm, for measuring range 18 – 50 mm	844 Nw
4474071	Right angle attachment, Bore depth 55mm, for measuring range 35 – 100 mm	844 Nw
4474072	Right angle attachment, Bore depth 70mm, for measuring range 100 – 250 mm	844 Nw
4470098	Base for mounting holder 420 h up to 420 mm	844 ef
4470095	Measuring jaw for holder 420 h	844 em



1004



1003



1002



1087 BR



1087 BRI



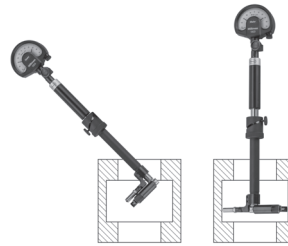
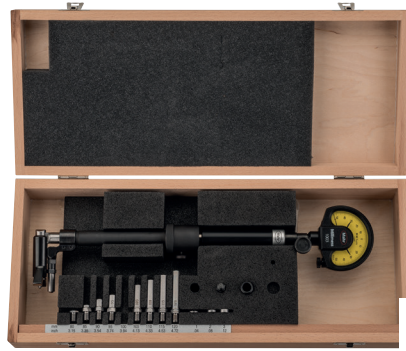
2001



844 em;844 ef



Self-centering dial bore gage MaraMeter 844 NR



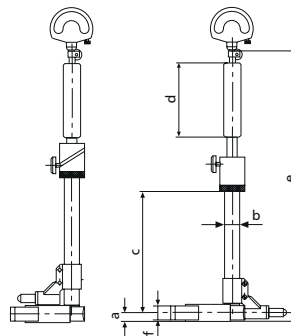
Application:

For measuring poorly accessible bore diameters, grooves and recesses

Technical Data

Order no.	4474580	4474590	4474600	4474610	4474620	4474630	
Product type	844 NR						
Measuring range	mm	50 – 70	60 – 100	80 – 150	120 – 220	180 – 360	290 – 530
Measuring range	inch	2 – 2.8"	2.4 – 4"	3.2 – 6"	4.7 – 8.7"	7.1 – 14.2"	11.4 – 20.7"
Error limit G_e	μm	2			3		
Repeatability f_w	μm	1			1.5		

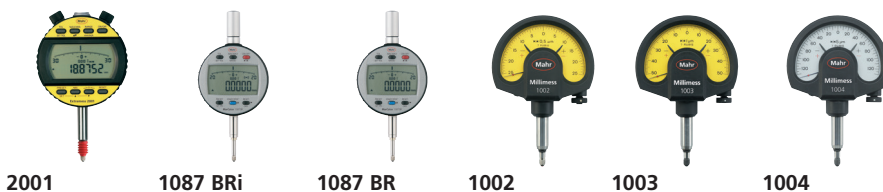
Order no.	a	b	c	d	e	f
	mm	mm	mm	mm	mm	mm
4474580	5	12	60	60	203	6
4474590	7	15	110	80	264	8
4474600	7	15	110	80	264	8
4474610	7.5	15	110	80	264	10
4474620	11	23	150	90	343	10
4474630	15	30	170	90	409	10



- Measuring head consists of a carbide tipped, movable measuring bolt and an opposing interchangeable stationary anvil with **carbide ball**
- Stationary measuring bolt can pivot through 180°, giving rise to a very long return travel path of up to 40% of the measured bore
- Movements of the measuring bolt are transmitted to the indicating instrument via the ring segment
- The broad centering bridge ensures automatic centering in the bore
- Resistant to temperature because the shaft and the transfer rod are made of **heat resistant Invar steel**
- Carbide tipped measuring contacts for high wear resistance
- Constant measuring force thanks to built-in and independent measuring force spring preventing external interference
- Universally applicable. Every instrument spans a broad measuring range. Within this range it is quick and easy to adjust to any size
- **Invar steel** makes the inside measuring device insensitive to temperature influences of any kind. Body heat from the user or a rise in ambient temperature in the workplace have virtually no influence on measuring results.
- **Scope of delivery:** Measuring holder, Measuring Head, Anvil spindle, Wooden case, excludes indicator

Accessories

Order no.	Product name	Product type
4333000	Millimess 5 μm , $\pm 130 \mu\text{m}$	1004
4334000	Millimess 1 μm , $\pm 50 \mu\text{m}$	1003
4335000	Millimess 0.5 μm , $\pm 25 \mu\text{m}$	1002
4337662	Digital Indicator, 0.0005 mm, 12.5 mm	1087 BR
4337664	Digital Indicator, 0.0005 mm, 12.5 mm	1087 BRi
4346100	Inductive dial comparator, $\pm 0.9 \mu\text{m}$	2001





Self-centering dial bore gage MaraMeter 844 NB

- Measuring head consists of a carbide tipped moving anvil and an interchangeable stationary anvil with a **carbide ball**
- Transmission lever system transfers movement of the movable anvil to indicating instrument
- The broad centering bridge ensures automatic centering in the bore
- Resistent to temperature because the shank and transfer rod are made of heat resistant **Invar steel**
- Highly resistant to wear and tear because of **carbide tipped moving anvil**
- Constant measuring force due to built-in spring thus eliminating user influence
- Universally applicable and extremely versatile as every instrument spans a broad measuring range, within this range it is quick and easy to adjust to any size
- **Invar steel** has a particularly low expansion coefficient and thus makes the instrument totally insensitive to any kind of heat. Body heat from the user, increases in ambient temperature have no influence on the measuring results
- **Scope of delivery:** Measuring holder, Measuring Head, Anvil spindle, Wooden case (package excludes indicator)



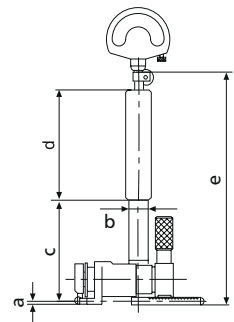
Application:

for **blind holes**, to measure almost to the base of a bore

Technical Data

Order no.		4474179	4474180	4474186
Product type			844 NB	
Measuring range	mm	20 – 50	50 – 110	110 – 300
Measuring range	inch	0.79 – 2"	2 – 4.33"	4.33 – 11.81"
Error limit G_e	μm	4	3	2.5
Repeatability f_w	μm		1	

Order no.	a	b	c	d	e
	mm	mm	mm	mm	mm
4474179	1.5	10	77	60	163
4474180	1.5	12	60	60	144
4474186	2	18	90	90	163



Accessories

Order no.	Product name	Product type
4333000	Millimess 5 μm , $\pm 130 \mu\text{m}$	1004
4334000	Millimess 1 μm , $\pm 50 \mu\text{m}$	1003
4335000	Millimess 0.5 μm , $\pm 25 \mu\text{m}$	1002
4337662	Digital Indicator, 0.0005 mm, 12.5 mm	1087 BR
4337664	Digital Indicator, 0.0005 mm, 12.5 mm	1087 BRi
4346100	Inductive dial comparator, $\pm 0.9 \mu\text{m}$	2001



2001



1087 BRi



1087 BR



1002



1003



1004



Anvil for internal serration MaraMeter 844 Zk



- FunctionsMaximum wear resistance due to carbide ball anvils
- Constant measuring force due to built-in spring thus eliminating user influence
- Anvils, measuring heads, holder, spacer (intermediate piece) and depth extensions form a very comprehensive modular system which can rapidly be converted to measure further gear sizes
- **When ordering please state the required ball diameter**

Application:

- For diametrical two ball measurement MdK, to obtain the pitch diameter and conical form of internal gears in any position and at any depth

Technical Data

Order no.	Product type	Dimension over balls MdK	Ball diameter							Increment	Expanding pin
			mm								
4482450	844 Zk	3.5 – 4.1	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn6						
4482451	844 Zk	4 – 4.6	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn6						
4482452	844 Zk	4.5 – 5.1	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn6						
4482453	844 Zk	5 – 5.6	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn6						
4482454	844 Zk	5.5 – 6.1	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn6						
4482455	844 Zk	6 – 6.6	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn6						
4482456	844 Zk	6.5 – 7.1	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn6						
4482457	844 Zk	7 – 7.6	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn6						
4482458	844 Zk	7.5 – 8.1	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn6						
4482459	844 Zk	8 – 8.6	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn6						
4482460	844 Zk	8.5 – 9.1	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn6						
4482461	844 Zk	9 – 9.6	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn6						
4482462	844 Zk	9.3 – 10.6	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn7						
4482463	844 Zk	10.3 – 11.6	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn7						
4482464	844 Zk	11.3 – 12.6	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn7						
4482465	844 Zk	12.3 – 13.6	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn7						
4482466	844 Zk	13.3 – 14.6	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn7						
4482467	844 Zk	14.5 – 16.1	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn7						
4482468	844 Zk	15.5 – 17.1	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn7						
4482469	844 Zk	16.5 – 18.1	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn7						
4482470	844 Zk	17.5 – 19.1	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn7						
4482471	844 Zk	18.5 – 20.1	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn7						
4482472	844 Zk	19.5 – 21.1	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn7						
4482473	844 Zk	20.5 – 22.1	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn7						
4482474	844 Zk	21.5 – 23.1	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn7						
4482475	844 Zk	22.5 – 24.1	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn7						
4482476	844 Zk	23.5 – 25.1	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn7						
4482477	844 Zk	24.5 – 26.1	1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	0.5	844 Kn7						
4482550	844 Zk	3.5 – 4.1	acc. to table (0,5–7,0mm)		844 Kn6						
4482551	844 Zk	4 – 4.6	acc. to table (0,5–7,0mm)		844 Kn6						
4482552	844 Zk	4.5 – 5.1	acc. to table (0,5–7,0mm)		844 Kn6						
4482553	844 Zk	5 – 5.6	acc. to table (0,5–7,0mm)		844 Kn6						
4482554	844 Zk	5.5 – 6.1	acc. to table (0,5–7,0mm)		844 Kn6						
4482555	844 Zk	6 – 6.6	acc. to table (0,5–7,0mm)		844 Kn6						
4482556	844 Zk	6.5 – 7.1	acc. to table (0,5–7,0mm)		844 Kn6						
4482557	844 Zk	7 – 7.6	acc. to table (0,5–7,0mm)		844 Kn6						
4482558	844 Zk	7.5 – 8.1	acc. to table (0,5–7,0mm)		844 Kn6						
4482559	844 Zk	8 – 8.6	acc. to table (0,5–7,0mm)		844 Kn6						
4482560	844 Zk	8.5 – 9.1	acc. to table (0,5–7,0mm)		844 Kn6						
4482561	844 Zk	9 – 9.6	acc. to table (0,5–7,0mm)		844 Kn6						



Technical Data

Order no.	Product type	Dimension over balls Mdk	Ball diameter		Increment	Expanding pin
				mm		
4482562	844 Zk	9.3 - 10.6		acc. to table (0,5-7,0mm)		844 Kn7
4482563	844 Zk	10.3 - 11.6		acc. to table (0,5-7,0mm)		844 Kn7
4482564	844 Zk	11.3 - 12.6		acc. to table (0,5-7,0mm)		844 Kn7
4482565	844 Zk	12.3 - 13.6		acc. to table (0,5-7,0mm)		844 Kn7
4482566	844 Zk	13.3 - 14.6		acc. to table (0,5-7,0mm)		844 Kn7
4482567	844 Zk	14.5 - 16.1		acc. to table (0,5-7,0mm)		844 Kn7
4482568	844 Zk	15.5 - 17.1		acc. to table (0,5-7,0mm)		844 Kn7
4482569	844 Zk	16.5 - 18.1		acc. to table (0,5-7,0mm)		844 Kn7
4482570	844 Zk	17.5 - 19.1		acc. to table (0,5-7,0mm)		844 Kn7
4482571	844 Zk	18.5 - 20.1		acc. to table (0,5-7,0mm)		844 Kn7
4482572	844 Zk	19.5 - 21.1		acc. to table (0,5-7,0mm)		844 Kn7
4482573	844 Zk	20.5 - 22.1		acc. to table (0,5-7,0mm)		844 Kn7
4482574	844 Zk	21.5 - 23.1		acc. to table (0,5-7,0mm)		844 Kn7
4482575	844 Zk	22.5 - 24.1		acc. to table (0,5-7,0mm)		844 Kn7
4482576	844 Zk	23.5 - 25.1		acc. to table (0,5-7,0mm)		844 Kn7
4482577	844 Zk	24.5 - 26.1		acc. to table (0,5-7,0mm)		844 Kn7
4482662	844 Zk	9.3 - 10.6	7,5 mm, 8,0 mm, 8,5 mm, 9,0 mm, 9,5 mm, 10,0 mm		0.5	844 Kn7
4482663	844 Zk	10.3 - 11.6	7,5 mm, 8,0 mm, 8,5 mm, 9,0 mm, 9,5 mm, 10,0 mm		0.5	844 Kn7
4482664	844 Zk	11.3 - 12.6	7,5 mm, 8,0 mm, 8,5 mm, 9,0 mm, 9,5 mm, 10,0 mm		0.5	844 Kn7
4482665	844 Zk	12.3 - 13.6	7,5 mm, 8,0 mm, 8,5 mm, 9,0 mm, 9,5 mm, 10,0 mm		0.5	844 Kn7
4482666	844 Zk	13.3 - 14.6	7,5 mm, 8,0 mm, 8,5 mm, 9,0 mm, 9,5 mm, 10,0 mm		0.5	844 Kn7
4482667	844 Zk	14.5 - 16.1	7,5 mm, 8,0 mm, 8,5 mm, 9,0 mm, 9,5 mm, 10,0 mm		0.5	844 Kn7
4482668	844 Zk	15.5 - 17.1	7,5 mm, 8,0 mm, 8,5 mm, 9,0 mm, 9,5 mm, 10,0 mm		0.5	844 Kn7
4482669	844 Zk	16.5 - 18.1	7,5 mm, 8,0 mm, 8,5 mm, 9,0 mm, 9,5 mm, 10,0 mm		0.5	844 Kn7
4482670	844 Zk	17.5 - 19.1	7,5 mm, 8,0 mm, 8,5 mm, 9,0 mm, 9,5 mm, 10,0 mm		0.5	844 Kn7
4482671	844 Zk	18.5 - 20.1	7,5 mm, 8,0 mm, 8,5 mm, 9,0 mm, 9,5 mm, 10,0 mm		0.5	844 Kn7
4482672	844 Zk	19.5 - 21.1	7,5 mm, 8,0 mm, 8,5 mm, 9,0 mm, 9,5 mm, 10,0 mm		0.5	844 Kn7
4482673	844 Zk	20.5 - 22.1	7,5 mm, 8,0 mm, 8,5 mm, 9,0 mm, 9,5 mm, 10,0 mm		0.5	844 Kn7
4482674	844 Zk	21.5 - 23.1	7,5 mm, 8,0 mm, 8,5 mm, 9,0 mm, 9,5 mm, 10,0 mm		0.5	844 Kn7
4482675	844 Zk	22.5 - 24.1	7,5 mm, 8,0 mm, 8,5 mm, 9,0 mm, 9,5 mm, 10,0 mm		0.5	844 Kn7
4482676	844 Zk	23.5 - 25.1	7,5 mm, 8,0 mm, 8,5 mm, 9,0 mm, 9,5 mm, 10,0 mm		0.5	844 Kn7
4482677	844 Zk	24.5 - 26.1	7,5 mm, 8,0 mm, 8,5 mm, 9,0 mm, 9,5 mm, 10,0 mm		0.5	844 Kn7

Table (Sizes in mm)

0.500 - 0.551 - 0.620 - 0.623 - 0.630 - 0.722 - 0.862 - 0.895 - 0.965 - 1.100 - 1.118 - 1.125 - 1.250
 1.350 - 1.372 - 1.385 - 1.524 - 1.540 - 1.600 - 1.650 - 1.700 - 1.750 - 1.782 - 1.800 - 1.829 - 1.900
 2.032 - 2.250 - 2.284 - 2.386 - 2.438 - 2.667 - 2.704 - 2.713 - 2.721 - 2.743 - 2.750 - 3.048 - 3.250
 3.400 - 3.658 - 4.835 - 5.250 - 5.486 - 5.500 - 6.000 - 6.096 - 6.350 - 6.500 - 7.000

Accessories

Order no.	g	Product name	Product type
4334000		Millimes 1 µm, ± 50 µm	1003
4333000		Millimes 5 µm, ± 130 µm	1004
4372030		Lifting knob	954
4470851	M6 x 0,75	Standard measuring instrument holder	844 Kg
4470070	M6 x 0,75	Extensions, D = 8 mm, L = 64 mm	844 Kv
4470806		Expanding pin, steel	844 Kn6
4470808		Expanding pin, steel	844 Kn7



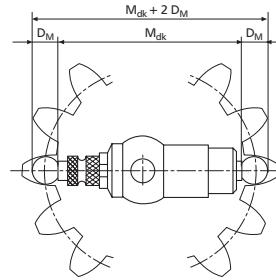
1003



1004



Measuring Head MaraMeter 844 z1 / 844 z2



Application:

- For diametrical two ball measurement MdK, to obtain the pitch diameter and conical form of internal gears in any position and at any depth

- Maximum wear resistance due to carbide ball anvils
- Constant measuring force due to built-in spring thus eliminating user influence
- Anvils, measuring heads, holder, spacer (intermediate piece) and depth extensions form a very comprehensive modular system which can rapidly be converted to measure further gear sizes
- **When ordering please state the required ball diameter**

Technical Data

Order no.	Product type	Measuring range	Dimension over balls MdK	Error limit G _e	Repeatability f _w
		mm	mm	µm	µm
4485000	844 z1	23.5 – 26.5	26 – 130.5	6	1
4485001	844 z2	46 – 49	48.5 – 333	6	1

Table (Sizes in mm)

0.500 - 0.551 - 0.620 - 0.623 - 0.630 - 0.722 - 0.862 - 0.895 - 0.965 - 1.100 - 1.118 - 1.125 - 1.250
 1.350 - 1.372 - 1.385 - 1.524 - 1.540 - 1.600 - 1.650 - 1.700 - 1.750 - 1.782 - 1.800 - 1.829 - 1.900
 2.032 - 2.250 - 2.284 - 2.386 - 2.438 - 2.667 - 2.704 - 2.713 - 2.721 - 2.743 - 2.750 - 3.048 - 3.250
 3.400 - 3.658 - 4.835 - 5.250 - 5.486 - 5.500 - 6.000 - 6.096 - 6.350 - 6.500 - 7.000



Accessories

Order no.	g	Product name	Product type
4334000		Millimess 1 μm , $\pm 50 \mu\text{m}$	1003
4333000		Millimess 5 μm , $\pm 130 \mu\text{m}$	1004
4488300		Floating Ball Anvil with carbide ball, Ball diameter 1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	844 z3
4488301		Floating Ball Anvil with carbide ball, Ball diameter acc. to table (0,5–7,0mm)	844 z3
4488302		Floating Ball Anvil with carbide ball, Ball diameter 5,0 mm, 7,5 mm, 8,0 mm, 8,5 mm, 9,0 mm, 9,5 mm, 10,0 mm	844 z3
4488320		Ball Anvils with carbide ball, Ball diameter 1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	844 z5
4488321		Ball Anvils with carbide ball, Ball diameter acc. to table (0,5–7,0mm)	844 z5
4488322		Ball Anvils with carbide ball, Ball diameter 7,5 mm, 8,0 mm, 8,5 mm, 9,0 mm, 9,5 mm, 10,0 mm	844 z5
4488330		Ball Anvils with carbide ball, Ball diameter 1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	844 z6
4488331		Ball Anvils with carbide ball, Ball diameter acc. to table (0,5–7,0mm)	844 z6
4488332		Ball Anvils with carbide ball, Ball diameter 7,5 mm, 8,0 mm, 8,5 mm, 9,0 mm, 9,5 mm, 10,0 mm	844 z6
4488340		Ball Anvils with carbide ball, Ball diameter 1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	844 z7
4488341		Ball Anvils with carbide ball, Ball diameter acc. to table (0,5–7,0mm)	844 z7
4488342		Ball Anvils with carbide ball, Ball diameter 7,5 mm, 8,0 mm, 8,5 mm, 9,0 mm, 9,5 mm, 10,0 mm	844 z7
4488350		Ball Anvils with carbide ball, Ball diameter 1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	844 z8
4488351		Ball Anvils with carbide ball, Ball diameter acc. to table (0,5–7,0mm)	844 z8
4488352		Ball Anvils with carbide ball, Ball diameter 7,5 mm, 8,0 mm, 8,5 mm, 9,0 mm, 9,5 mm, 10,0 mm	844 z8
4488360		Ball Anvils with carbide ball, Ball diameter 1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	844 z15
4488361		Ball Anvils with carbide ball, Ball diameter acc. to table (0,5–7,0mm)	844 z15
4488362		Ball Anvils with carbide ball, Ball diameter 7,5 mm, 8,0 mm, 8,5 mm, 9,0 mm, 9,5 mm, 10,0 mm	844 z15
4486501		Spacer (intermediate piece), 10 mm	844 z9
4486502		Spacer (intermediate piece), 20 mm	844 z10
4486503		Spacer (intermediate piece), 40 mm	844 z11
4486504		Spacer (intermediate piece), 80 mm	844 z12
4470851	M6 x 0,75	Standard measuring instrument holder	844 Kg
4470070	M6 x 0,75	Extensions, D = 8 mm, L = 64 mm	844 Kv
4488310		Floating Ball Anvil with carbide ball, Ball diameter 1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, 3,5 mm, 4,0 mm, 4,5 mm, 5,0 mm	844 z4
4488311		Floating Ball Anvil with carbide ball, Ball diameter acc. to table (0,5–7,0mm)	844 z4
4488312		Floating Ball Anvil with carbide ball, Ball diameter 7,5 mm, 8,0 mm, 8,5 mm, 9,0 mm, 9,5 mm, 10,0 mm	844 z4
4486505		Spacer (intermediate piece), 100 mm	844 z13



1003



1004