

Mahr

Multimar. Universal Measuring Instruments

DO YOU HAVE DIVERSE MEASURING TASKS? MULTIMAR MASTERS THEM WITH FLYING COLORS.



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► | Regardless of whether gears, threads, cones or grooves are to be measured; the versatility of Multimar Universal Measuring Instruments combined with a broad range of accessories ensures a perfect solution for nearly all your internal and external measuring requirements.



Multimar. Universal Measuring Instruments

Multimar. Universal Measuring Instruments

Multimar 25 EWR Digital Universal Caliper	10- 2
Multimar 844 T Universal Measuring Instrument for Comparision Measurements	10- 4
Accessories for Multimar 25 EWR / 844 T	10- 9
Multimar 36 B Indicator Gage for Internal (I.D.) and External (O.D.) Measurements	10-21

(Mahr) 10-2

Image: Multimar. Universal Measuring Instruments

Digital Universal Caliper 25 EWR



Applications

For measuring:

- Outside and inside dimensions
- Centering shoulders
- Narrow collars
- External and internal tapers
- Dovetails
- Grooves
- Distances between hole centers
- For scribing of work pieces

Illustration is shown with accessories, these are sold seperately

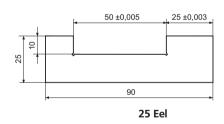
Features

Functions:

- AUTO-ON / OFF DATA (Data transmission via connection cable) ON/OFF PRESET (for entering a numerical value) RESET (set display to zero) Lock/Unlock mm/inch
- Interchangeable measuring arms
- Due to the patented mounting fixture of the measuring arms and of measuring attachments provided on both the upper and lower longitudinal face of the arm holders, the digital display is always in the operator's line of vision
- The application range can be easily extended by reversing the measuring arms
- Both measuring arms can be moved along the beam thus having a well balanced weight distribution even with small dimensions
- Slide and beam are made of hardened stainless steel
- Data output: USB, Digimatic, Opto RS232C, Wireless
- Energy supply: Battery, life span ca. 3 years
- IP protection category: IP 65
 Supplied with: Battery,
- and resting blocks, wooden case

Technical Data

Measurir outs		Resol	ution	Order no.
mm	(inch)	mm /	inch	
0 - 300	(0 - 12")	0.01 /	.0005″	4119000
0 - 600	(0 - 24")	0.01 /	.0005"	4119001
0 - 1000	(0 - 40")	0.01 /	.0005"	4119002
0 - 1250	(0 - 50")	0.01 /	.0005"	4119003



		Order no.			Order no.
Mounting Attachments for outside 8 dimensions	344 Tma	4503030	Depth Stops for 844 Tma, 844 Tmi, 844 Te Measuring Tips for drill hole intervals,	844 Tw 25 Eba	4503109 4119010
Mounting Attachments for inside 8 dimensions	344 Tmi	4503031	Ø 2-20 mm Measuring Tips for drill hole intervals,	25 Eba	4119011
	344 Te 344 Te	4503024 4503025	Ø 10-40 mm Setting Gage, hardened steel	25 Eel	4118520
	344 Te 344 Te	4503025	Battery 3 V, CR 2032		4102520
Measuring Arms, 100 mm 8	344 Te	4503027	Case for accessories Accessories for Data Processing see Chapter 1	844 Tzb 1	4503020

+

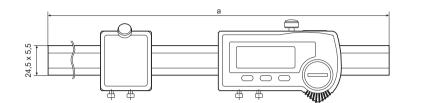
844 Tma

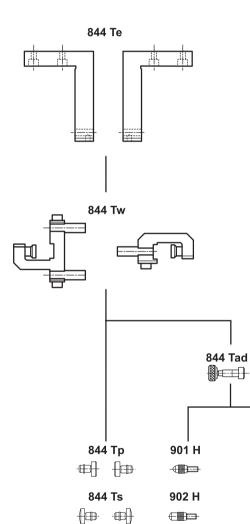
Multimar. Universal Measuring Instruments 10-3 (Mahr)

844 Tmi

Dimensions

R	an	ge of a	ppli	ica	tion		а	
	m	ım	(in	ch)	mm	/	inch
0	-	300	(0	-	12")	480	/	18.89"
0	-	600	(0	-	24")	780	/	31.11″
0	-	1000	(0	-	40")	1200	/	47.24″
0	-	1250	(0	-	50")	1450	/	57.09"





844 Tk

844 Tr

844 Tg

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903 H

904 H

	044 IIIIa			044	
	844 Ta	8	44 Ti		25 Eba
906 H		Ę		44 ['] Tw ======	
907 908 911 H 912 912	844 Tz	844 Tb	844 Tc	844 Td	844 Tv

► | Multimar. Universal Measuring Instruments Mahr 10-4

Multimar. Universal Gage 844 T for external and internal dimensions **OVERVIEW**

▶ I The Universal Gage Multimar 844 T. Easy to use and versatile; ideal for all your measuring requirements in dimensional metrology.

Applications

For measuring:

- External and internal dimensions
- External and internal threads
- Centering shoulders, narrow collars, recesses and grooves
- External and internal tapers, external and internal tooth profiles / gears and lots more



an 8 mm mounting shank can be used



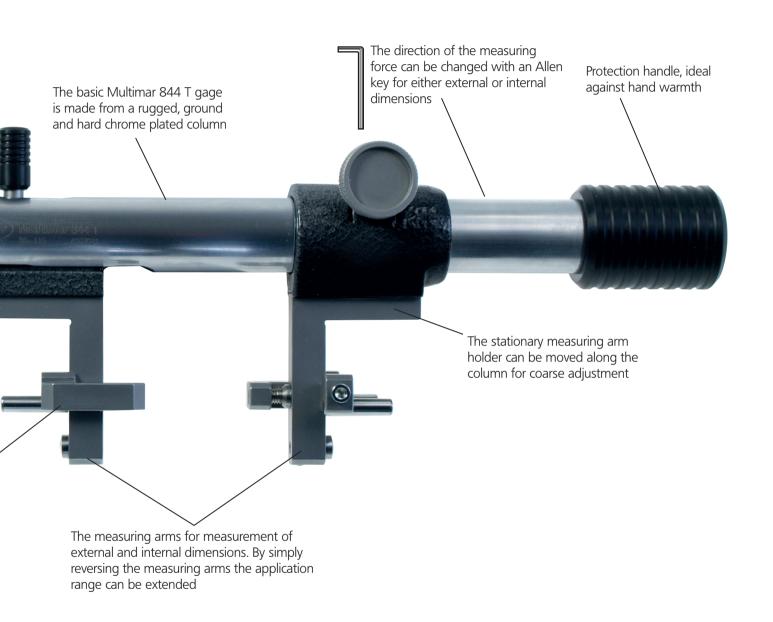
eliminate both play and friction; it also has an extreme measuring sensitivity and accuracy due to the optimal stability and ease of movement

> Stop with non-tilting 3-point support for adjusting the measuring depth

Features

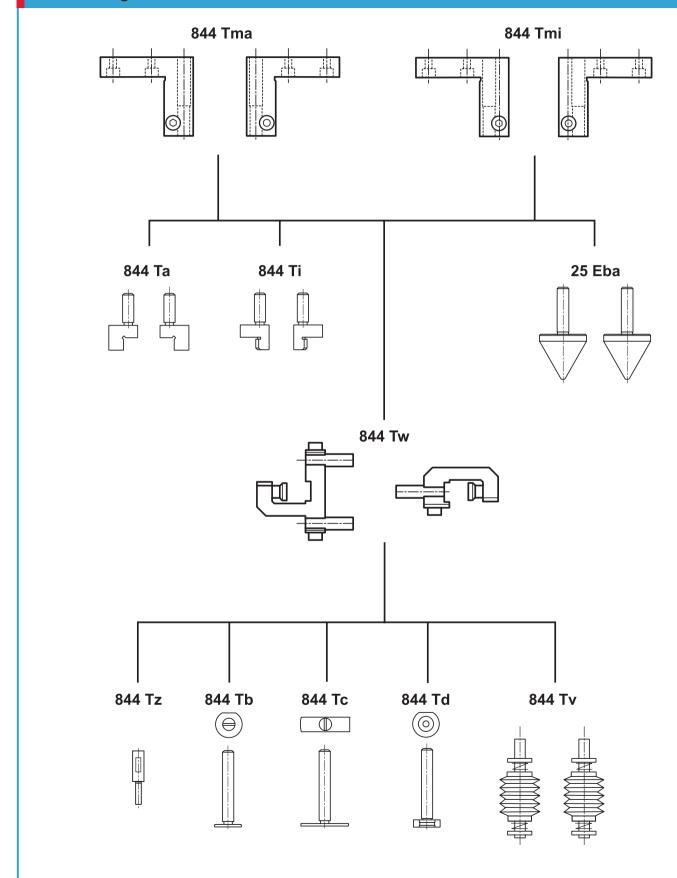
- Extreme measuring sensitivity and accuracy due to the optimal stability and ease of movement of the moveable measuring arm holder
- Constant measuring force due to the built-in measuring force spring
- The direction of the measuring force can be changed for either external or internal dimensions
- Rugged, ground and hard chrome plated column
- The moveable measuring arm holder is mounted in a highly precision ball guide to eliminate both play and friction
- Lightweight construction of the basic body, made from carbon fiber reinforced plastic (CRP) tube, for measuring range 1000 - 1500 mm.
- The stationary measuring arm holder can be moved along the column for coarse adjustment
- The direction of the measuring force can be changed with an Allen key for either external or internal dimensions
- Supplied with: Battery, Instruction manual, Mounting and resting blocks, wooden case

Multimar. Universal Measuring Instruments | < 10-5 (Mahr)

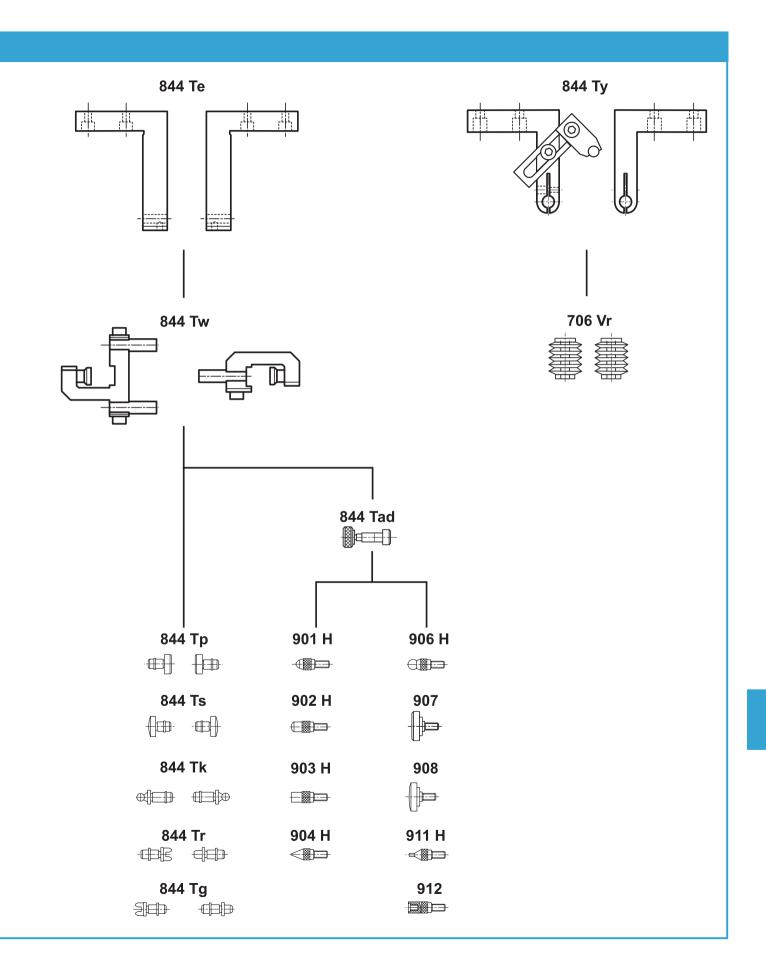


(Mahr) 10-6 | Multimar. Universal Measuring Instruments

Universal Gage 844 T



Multimar. Universal Measuring Instruments | < 10-7 (Mahr)

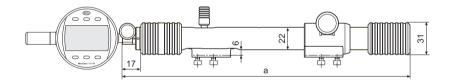


(Mahr) 10-8
Image: Multimar. Universal Measuring Instruments



Technical Data

	ation range utside		ation range nside	Measuring force			ce of e anvil	Dimer	nsion a	W	eig	ht	Order no.
mm	inch	mm	inch	Ν	mm	/	inch	mm /	inch	kg	/	lbs	
0-85	(0-3.35")	30-115	(1.18-4.52")	5	12	/	0.47	280 /	11.02"	0,78	/	1.72	4503001
80-235	(3.15-9.25")	110-265	(4.33-10.43")	5	12	/	0.47	430 /	16.92"	1,01	/	2.20	4503002
230-585	(9.06-23.03")	260-615	(10.23-24.21")	5	12	/	0.47	740 /	29.13"	1,59	/	3.50	4503003
580-985	(22.83-38.78")	610-1015	(24.02-39.96")	5	12	/	0.47	1140 /	44.88"	2,22	/	4.89	4503004
970-1470	(38.19-57.87")	1000-1500	(39.37-59.05")	10	12	/	0.47	1680 /	66.14"	2,52	/	5.55	4503005
1470-1970	(57.87-77.56")	1500-2000	(59.05-78.74")	10	12	/	0.47	2180 /	85.83"	2,68	/	5.90	4503006
1970-2470	(77.56-97.24")	2000-2500	(78.74-98.42")	10	12	/	0.47	2690 /	105.91"	2,86	/	6.30	4503007



	Unit quantity		Order no.		R -12
Precision Dial Indicator MarCator, 0.01 mm, 10 mm	8	10 S	4311000		Milmess 1004
Mechanical Dial Comparator Millimess 5 μm		004	4333000		
Mechanical Dial Comparator Millimess 0.01 mm, ±0.25	mm 1	010	4332000	ų	
Digital Indicator MarCator, 0.0005 mm, 12.5 mm	1	087 BR	4337662	•	1001
Digital Indicator MarCator, 0.0005 mm, 12.5 mm	1	087 BRi	4337664	810 S	1004
Mounting attachments for outside dimensions	Pair 8	44 Tma	4503030		
Mounting attachments for inside dimensions	Pair 8	44 Tmi	4503031		
Measuring Arms, 25 mm	Pair 8	44 Te	4503024		
Measuring Arms, 35 mm	Pair 8	44 Te	4503025		
Measuring Arms, 70 mm	Pair 8	44 Te	4503026		
Measuring Arms, 100 mm	Pair 8	44 Te	4503027	1	1
Depth Stops for 844 Tma, 844 Tmi, 844 Te	Pair 8	44 Tw	4503109	1087 BR	1087 BRi
Protection for indicator	8	44 Tsb	4503012		
Case for accessories	8	44 Tzb	4503020		
Stand	8	44 Tf	4450512		

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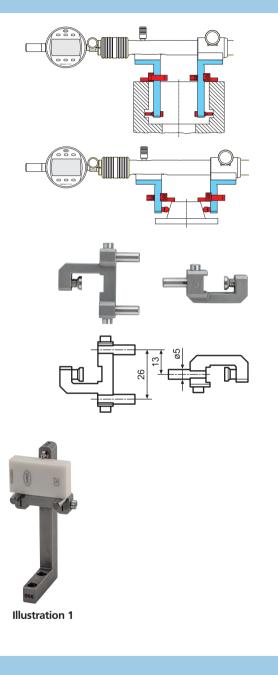
Measuring external and internal dimensions

Depth Stops 844 Tw

- Depth Stops for 844 Tma, 844 Tmi and 844 Te Measuring Arms
- Equipped with non-tilting 3-point support
- Hardened stop pins, interchangeable and can be adjusted
 Supplied with:
- One pair of Depth Stops with three Ø5x20 mm depth pins, also one Ø5x16 mm and one Ø5x10 mm depth pin for a 1-point stop block

Application:

- To set the exact measuring depth in the horizontal measurement position
- Precise support on the reference plane surface for repetitive accuracy when conducting comparison measurements in the second axis
- The Measuring Arms 844 Tma, 844 Tmi and 844 Te have a mm scale, which simplifies the positioning and adjustment of the measurement depth
- For highly accurate setting of the measuring depth (required for example with cone measurements) use a Rectangular Gage Block between the measuring anvil and the stop (see Illustration 1)



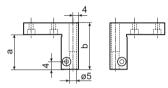
		Unit quantity	Order no.
844 Tw	Depth Stops for 844 Tma, 844 Tmi, 844 Te	Pair	4503109

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Image: Multimar. Universal Measuring Instruments

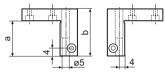
Measuring external and internal dimensions

Mounting Attachments 844 Tma / 844 Tmi

- Made from special stainless steel
- Lateral mm scale, for easy positioning and adjustable of the depth stops
- Measuring arms on the measuring arm holder are reversible,
 the sectors are reversible.
- therefore extending the measuring range
- With a ø 5 mm mount, accommodates the interchangeable anvils 844 Ta, 844 Ti, 844 Tb, 844 Tc, 844 Td, 844 Tz and 844 Tv





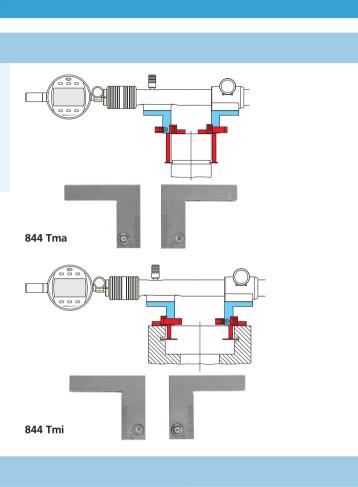


844 Tmi

Technical Data

	Mounting hole mm	a mm	b mm	Unit quantity	Order no.
844 Tma	5	24	32	Pair	4503030
844 Tmi	5	24	32	Pair	4503031

		Unit quantity	Order no.
844 Ta	Shoulder Anvils, flat, hardened steel	Pair	4500050
844 Ti	Shoulder Anvils, spherical, hardened steel	Pair	4500055
844 Tb	Measuring Anvils with measuring blades, Platelet diameter 11 mm, Adjustment range 0-20 mm	Piece	4503015
844 Tb	Measuring Anvils with measuring blades, Platelet diameter 11 mm, Adjustment range 20-40 mm	Piece	4503016
844 Tc	Measuring Anvils with measuring blades, Platelet length 20 mm, Adjustment range 0-20 mm	Piece	4503114
844 Tc	Measuring Anvils with measuring blades, Platelet length 20 mm, Adjustment range 20-40 mm	Piece	4503115
844 Td	Anvils with round measuring faces, diameter 11 mm, Adjustment range 0-20 mm	Piece	4503017
844 Td	Anvils with round measuring faces, diameter 11 mm, Adjustment range 20-40 mm	Piece	4503018
844 Tw	Depth Stops for 844 Tma, 844 Tmi, 844 Te	Pair	4503109



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Shoulder Anvils 844 Ta			
For measuring narrow collars such a similar measuring tasks With cylindrical mounting shaft to a attachments 844 Tma / 844 Tmi Made from hardened steel Flat, for external diameters			
Technical Data			
Mounting shaft diameter mm	Unit quantity	Order no.	<i>∞</i> 5
5	Pair	4500055 vi	
Measuring internal dim			
	ensions		
Shoulder Anvils 844 Ti For measuring narrow collars such a similar measuring tasks With cylindrical mounting shaft to a attachments 844 Tma / 844 Tmi Made from hardened steel	as centering shoulders and other ttach into the mounting		
Shoulder Anvils 844 Ti For measuring narrow collars such a similar measuring tasks With cylindrical mounting shaft to a attachments 844 Tma / 844 Tmi Made from hardened steel Semi-cylindrical, for internal diamete	as centering shoulders and other ttach into the mounting		
Shoulder Anvils 844 Ti For measuring narrow collars such a similar measuring tasks With cylindrical mounting shaft to a attachments 844 Tma / 844 Tmi Made from hardened steel	as centering shoulders and other ttach into the mounting		
Shoulder Anvils 844 Ti For measuring narrow collars such a similar measuring tasks With cylindrical mounting shaft to a attachments 844 Tma / 844 Tmi Made from hardened steel Semi-cylindrical, for internal diamete	as centering shoulders and other ttach into the mounting	Order no.	

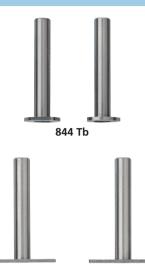
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| Multimar. Universal Measuring Instruments

Measuring external and internal dimensions

Measuring anvils with measuring blades 844 Tb, 844 Tc, 844 Td

- With round measuring blades
- 844 Tb
- Ideal for workpieces that have a narrow recess up to 3 mm in depth 844 Tc
- Ideal for workpieces that have a narrow recess up to 7.5 mm in depth \bullet 844 Td

Ideal for workpieces that have a recess up to 3 mm in depth



Application:

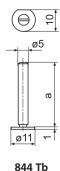
For measuring centering shoulders and recesses on internal and external diameters. For mounting into the Mounting Attachment 844 Tma / 844 Tmi.

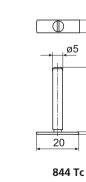




Technical Data

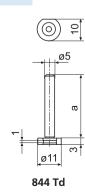
	Adjustn	nen	t range	Mounting shaft diameter	Length a	Unit quantity	Order no.
		mm		mm	mm		
844 Tb	0	-	20	5	30	Piece	4503015
844 Tb	20	-	40	5	50	Piece	4503016
844 Tc	0	-	20	5	30	Piece	4503114
844 Tc	20	-	40	5	50	Piece	4503115
844 Td	0	-	20	5	30	Piece	4503017
844 Td	20	-	40	5	50	Piece	4503018





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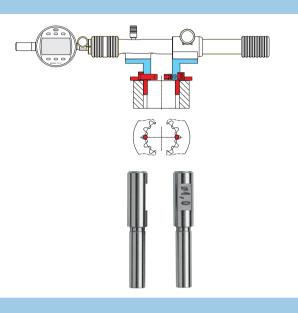
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Measuring external and internal tooth profiles

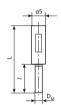
Cylindrical Measuring Pins 844 Tz

- Determination of the dimension over 2 pins for inner and outer gears
- Made from steel, with shank for mounting into the Mounting Attachment 844 Tma / 844 Tmi



Technical Data

D	Mounting shaft diameter	Manufacturing tolerance +/-	L	1	Unit quantity	Order no.
mm	mm	μm	mm	mm		
1	5	2	19.5	6	Piece	4500500
1.25	5	2	19.5	6	Piece	4500501
1.5	5	2	19.5	6	Piece	4500502
1.75	5	2	23.5	10	Piece	4500503
2	5	2	23.5	10	Piece	4500504
2.5	5	2	23.5	10	Piece	4500506
3	5	2	28.5	15	Piece	4500507
3.5	5	2	28.5	15	Piece	4500508
4	5	2	28.5	15	Piece	4500509
4.5	5	2	33.5	20	Piece	4500510
5	5	2	33.5	20	Piece	4500511
5.5	5	2	33.5	20	Piece	4500512
6	5	2	33.5	20	Piece	4500513

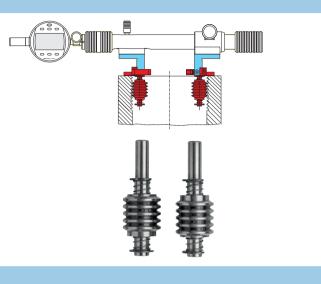


(Mahr) 10-14 | Multimar. Universal Measuring Instruments

Measuring external and internal dimensions

Interchangeable Measuring Rollers 844 Tv

- Determining the pitch diameter of outer and inner threads
- Mounting shank fits into Mounting Attachment 844 Tma / 844 Tmi
- Each has two springs to alleviate the positioning on the correct pitch thread
- Interchangeable Measuring Rollers for further thread pitches (metric 60°) as well as Whitworth and UST threads are also available upon request



Technical Data

Flank angle	Type of thread	Thread pitch mm	Unit quantity	Order no.
60°	Metric thread	1	Pair	4501711
60°	Metric thread	2	Pair	4501715
60°	Metric thread	2.5	Pair	4501716
60°	Metric thread	3.5	Pair	4501718
60°	Metric thread	4	Pair	4501719
60°	Metric thread	5	Pair	4501721
60°	Metric thread	6	Pair	4501723



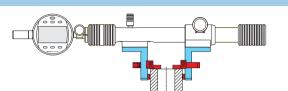
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Multimar. Universal Measuring Instruments | < 10-15 (Mahr)

Measuring external and internal dimensions

Measuring Arms 844 Te

- For internal and external diameters
- Measuring arms on the measuring arm holder are reversible, therefore extending the measuring range
- Lateral mm scale, for easy positioning and adjustment of the depth stops 844 Tw
- With a 3.5 mm (0.138") diameter mount, accommodates the interchangeable anvils 844 Tp, 844 Ts, 844 Tk, 844 Tr and 844 Tg



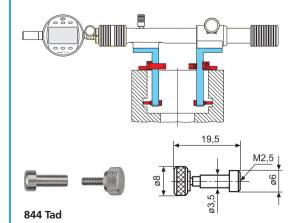
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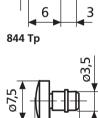
Technical Data

Mounting hole mm	Throat depth a mm	b mm	Unit quantity	Order no.	
3.5	25	6	Pair	4503024	σ
3.5	35	10	Pair	4503025	
3.5	70	10	Pair	4503026	*
3.5	100	12	Pair	4503027	_

Accessories

		Unit quantity	Order no.	2,5
844 Tp	Anvils for Measuring Arms, flat, hardened steel	Piece	4500040	, Ø
844 Ts	Measuring Anvils, spherical, hardened steel	Piece	4500045	-
844 Tad	Adaptor Ø 3.5 - M2.5 for measuring arms 844 Te	Piece	4503080	-
844 Tw	Depth Stops for 844 Tma, 844 Tmi, 844 Te	Pair	4503109	





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844 Ts

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844 Tw

(Mahr) 10-16 | Multimar. Universal Measuring Instruments

Measuring external and internal threads

Interchangeable A	nvils 844 Tr / 8	844 Tg						
For pitch diameters Hardened, wear-resistant s With cylindrical mounting s locking while permitting ro	hank and retainer ring	g which e	ensures	⁰³³⁵			▲ 0335	
				844 Tr Anvils for ex	xternal threads	844 Tg /	Anvils for inter	nal threads
Accessories								
Thread pitch in mm	Taper V Order no. Ord	-anvil der no.	Blade Order no.	Thread pitch	i in mm	Taper Order no.	V-anvil Order no.	Blade Order no
Pitch diameter, external metric 60° 0.5 -0.7 0.7 -1 1.25 -2 2 -3.5 3.5 -5 5 -7 7 -9 Pitch diameter, internal t metric 60° 0.5 -0.7 0.7 -1 1.25 -2 2 -3.5 3.5 -5 5 -7 7 -9 Pitch diameter, external Trapezoid 30°	45 45 45 45 45 45 45 45 45 45 45 45 45 4	501003 501004 501005 501006 174300 174301 174302 174303 174304	4501200 4501201 4501202 4501203 4501204 4501205 4501206	Trapezoid 30 1 1.5 2 3 4 5 6 7 8 9 10 12 14 16 18 20	er, internal thre	4501831 4501833 4501835 4501837 4501837 4501843 4501843 4501845 4501847 4501847 4501851 4174981 4174982 4174983 4174985	4501838 4501840 4501842 4501844 4501846 4501848 4501830 4174961 4174962 4174963	
1 1.5 2 3 4 5 6 7 8 9 10 12 14 16 18 20	45 45 45 45 45 45 45 45 45 45 45 45 45 4	501151 501152 501153 501154 501155 501155 501156 501157 501158 501159 501160 501161 501162 501163 501164	4501350 4501351 4501352 4501353 4501354 4501355 4501356 4501357 4501358 4501360 4501361 4501362 4501363 4501364 4501365					

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Thread pitch in TPI	•	V-anvil Order no.	
Pitch diameter, external thre	ead		
UST 60°			
40 - 32			4501418
32 –24 24 –18			4501419
18 – 14			4501420 4501421
14 – 10			4501421
10 -7			4501422
7 –4.5			4501424
4.5 –3			4501425
Whitworth 55 °			
40 - 32		4501007	4501207
32 –24		4501008	4501208
24 – 18		4501009	4501209
18 – 14		4501010	4501210
14 – 10			4501211
10 –7		4501012	4501212
7 –4.5		4501013	4501213
4.5 – 3		4501014	4501214
Pitch diameter, internal thre	ad		
UST 60°			
40 - 32		4174415	
32 –24 24 –18		4174416	
24 – 18 18 – 14		4174417 4174418	
18 - 14 14 - 10		4174418	
10 -7		4174419	
7 –4.5		4174421	
4.5 –3		4174422	
Whitworth 55 °			
40 - 32	4174643	4174343	
32 –24	4174644		
24 – 18	4174645	4174345	
18 – 14	4174646	4174346	
14 – 10	4174647	4174347	
10 –7	4174648	4174348	
7 –4.5	4174649	4174349	
4.5 – 3	4174650	4174350	

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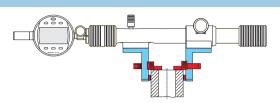
Measuring external and internal dimensions

Measuring Anvils 844 Tp

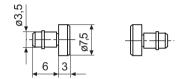
- Flat; for external diameters, distances and widths
- Made of hardened steel
- With cylindrical mounting shank and retainer ring which allows free rotation inside the bore of Measuring Arms 844 Te

Technical Data

Mounting shaft diameter mm	Unit quantity	Order no.
3.5	Piece	4500045







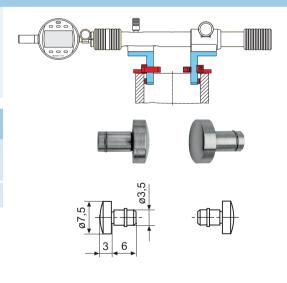
Measuring external and internal dimensions

Measuring Anvils 844 Ts

- Spherical; for internal diameters
- Made of hardened steel
- With cylindrical mounting shank and retainer ring which allows free rotation inside the bore of Measuring Arms 844 Te

Technical Data

Mounting shaft diameter mm	Unit quantity	Order no.
3.5	Piece	4500045



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Multimar. Universal Measuring Instruments | < 10-19 (Mahr)

Measuring external and internal dimensions

Ball Anvils 844 Tk

2.284

• Made of carbide. With cylindrical mounting shank and retainer ring which allows free rotation inside the bore of Measuring Arms 844 Te.

4.8



d	Н	Order no.	d mm	H mm	Order no.
mm 0.5	mm	4500000			4500544
0.551	3	4502620	2.3	4.8 4.9	4502544
	3.1	4502621	2.386		4502645
0.62	3.1	4502622	2.438	4.9	4502646
0.623	3.1	4502623	2.5	5	4500356
0.63	3.1	4502624	2.667	5.2	4502647
0.722	3.2	4502625	2.704	5.2	4502648
0.862	3.4	4502626	2.713	5.2	4502649
0.895	3.4	4502627	2.721	5.2	4502650
0.965	3.5	4502628	2.743	5.2	4502651
1	3.5	4500350	2.75	5.3	4500618
1.1	3.6	4502629	3	5.5	4500357
1.118	3.6	4502630	3.048	5.5	4502652
1.125	3.6	4502631	3.25	5.8	4502541
1.25	3.8	4500351	3.4	5.9	4502653
1.35	3.9	4502632	3.5	6	4500358
1.372	3.9	4502633	3.658	6.2	4502654
1.385	3.9	4502634	4	6.5	4500359
1.5	4	4500352	4.5	7	4500360
1.524	4	4502635	4.835	7.3	4502655
1.54	4	4502636	5	7.5	4500361
1.6	4.1	4502637	5.25	7.8	4502656
1.65	4.2	4502638	5.486	8	4502657
1.7	4.2	4502639	5.5	8	4500362
1.75	4.3	4500353	6	8.5	4500363
1.782	4.3	4502640	6.096	8.6	4502658
1.8	4.3	4502641	6.35	8.9	4502545
1.829	4.3	4502642	6.5	9	4502542
1.9	4.4	4502643	7	9.5	4502547
10	12.5	4502550	8	10.5	4502548
2	4.5	4500354	9	11.5	4502549
2.032	4.5	4502543	5	11.5	-502545
2.25	4.8	4502545			

4502644

706 Vr

844 Ty

(Mahr) 10-20
Multimar. Universal Measuring Instruments

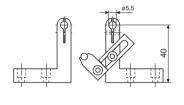
Measuring Roller Holder 844 Ty

Features

- Location bolts for the Measuring Rollers 706 Vr, with stop and stop pin
- Interchangeable Measuring Rollers for further thread pitches (metric 60°) as well as Whitworth and UST threads, available upon request

Application:

• Determining the pitch diameter of outer threads



Fechnical Data	
Unit quantity	Order no.
Pair	4502463

		Unit quantity	Order no.	
706 Vr	Thread Measuring Rollers 60°, Thread pitch 1 mm	Pair	4521111	
706 Vr	Thread Measuring Rollers 60°, Thread pitch 2 mm	Pair	4521115	
706 Vr	Thread Measuring Rollers 60°, Thread pitch 3 mm	Pair	4521117	
706 Vr	Thread Measuring Rollers 60°, Thread pitch 4 mm	Pair	4521119	
706 Vr	Thread Measuring Rollers 60°, Thread pitch 5 mm	Pair	4521121	ø5,5
706 Vr	Thread Measuring Rollers 60°, Thread pitch 6 mm	Pair	4521123	706 Vr
844 Tf	Stand		4450512	700 VI

Multimar. Universal Measuring Instruments | < 10-21 (Mahr)

I.D./O.D. Indicator Gage 36 B for Internal and External Dimensions

The economical way to check outside diameters on the shop floor.



EMD-36B-10

Technical Data

Features

- Adjustable retraction of sensitive contact allows measurement of grooves and races. Retraction, normally set at 6 mm / 0.25", is adjustable to 10 mm / 0.40".
- Frictionless reed-spring (pantograph) motion transfer for repeatability.
- Gaging pressure is adjustable from 0 35 N / 0 8 lb.
- Two styles available. 2-point "T"-Plate or 3-point "V"-Plate.

- Two sizes available.
- Adjustable base: Gage can be positioned on any angle from horizontal to vertical.
- Variety of readout devices available.
- Reverse the top-plate to change from I.D. to O.D. measurement.
- Supplied with JW-9 Jaws.

Indicating Instruments

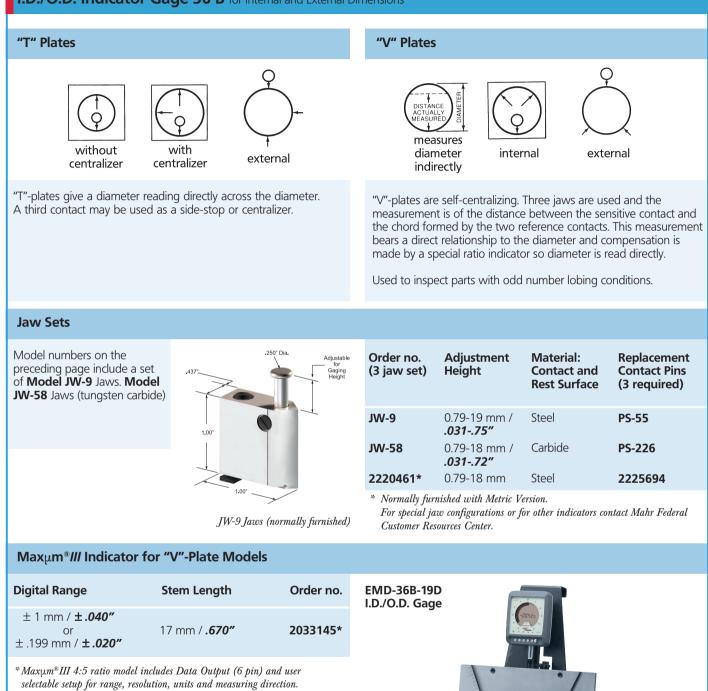
All indicating instruments that has a 8 mm mounting shank may be used. Recommended are:

Catalog no.	Resolution switchable	Order no.
MarCator 1087 R	0.0005 / 0.001 / 0.002 /	4337660
MarCator 1087 R	0.005 / 0.01 mm .00002" / .00005" / .00001" /	4337661
	.0002" / .0005"	

Style	Capacity I.D. O.D.		Order no. with .0001" Dial Indicator	Order no. with 0.002 mm Dial Indicator	with Maxµm®///	Order no.* with Maxμm®/// & Output	Order no.* with μ <i>Μaxμm</i> & Output	Order no.*** w/o Indicator, metric 8 mm mount shank
"T" Plate	.75 - 3.5" 19 - 89 mm	.25 - 5″ 6 - 127 mm	36B-10	36B-10M	EMD-36B-10	EMD-36B-10D	EDI-36B-10	2003200
"T" Plate		.25 - 8.75″ 6 - 222 mm	36B-20	36B-20M	EMD-36B-20	EMD-36B-20D	EDI-36B-20	2003201
"V" Plate	.812 - 4.625" 21 - 117 mm	.312 - 5″ I 8 - 127 mm	36B-9	36B-9M		EMD-36B-9D	EDI-36B-9	
"V" Plate		.312 - 9.5″ 8 - 241 mm	36B-19	36B-19M		EMD-36B-19D	EDI-36B-19	
* Selectable Resolution								
				Order no.				
				2061657 2061658				

Mahr 10-22 Image: Multimar. Universal Measuring Instruments

I.D./O.D. Indicator Gage 36 B for Internal and External Dimensions







external

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