

MarStand. Indicator Stands, Comparator Stands, Run out Testing Instruments

YOUR STABLE PARTNER FOR MANUFACTURING. MARSTAND.



Mahr

The latest information on MARSTAND products can be found on our website: www.mahr.de/en/Home, WebCode 20316

▶ | MarStand Indicator Stands, Comparator Stands and Run out Testing Instruments offer high stablity which ensures precise measurements. Whether you are using a dial indicator, a dial comparator, a test indicator or a measuring probe you will always have the best possible support.

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Indicator Stands

MarStand 815 GN With Cast Iron Base MarStand 2400 For Electronic Measurements MarStand 815 MA / 815 MB / 815 MG / 815 P With Magnetic Base	8- 2 8- 2 8- 3
Post & Support Arm Assemblies MarStand 815 XN / 815 XMA / 815 XMB /	8-7
With Mounting Thread and / or T-slot	0- /
Magnetic Bases	
MarStand 815 Y / 815 YP	8-7
Center Bench	
MarStand 818 With moveable Tail Stocks and Support Arms	8-8
Comparator Stands	
MarStand 820 N / 820 NC / 820 FC / 820 NG / 820 FG 35 B / NB-60	8-10
Small Version MarStand 821 NG / 821 FG	8-14
Large Version MarStand 824 NT / 824 FT / 824 GT Heavy Version	8-15

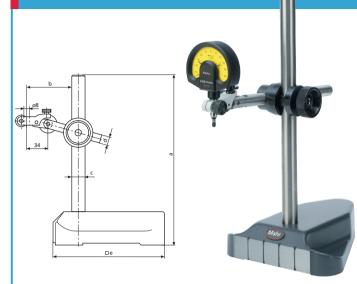
Modular Units

MarStand 827 b

Mahr 8-2

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Indicator Stand 815 GN



Features

- Rugged base ensures both maximum stability and sturdiness
- The upper side of the base has a convenient hand grip
- Moves easily over surfaces without vibration
- Front of the base is ground to allow movement of the stand along edges and rules
- Stable due to the three point support

- Support arm can be finely adjusted
- Post and support arm are made from stainless steel
- Indicator can be rotated through \pm 90°

Technical Data

	height base	Max. projection of support arm	Post	dia.	Base surface	Fine adjustment range	Weight	Order no.* Mount dia.	Order no.* Mount dia.
	а	b	с	d	е			8H7	3/8"
mm	inch	mm	mm	mm	mm	mm	kg		
300	12"	185	18	14	150 x 150	2	4.2	4413000	4413050
500	20"	200	25	18	190 x 180	2	9	4413001	4413051
750	30"	230	35	25	190 x 180	2	10	4413005	4413052

* excludes indicating instrument

Indicator Stand 2400

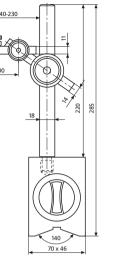
			 Features A stable Height Stand for electronic measurement, Fine adjustment in the base allows easy operator set-up, even at high magnification. Up to 3.8 mm / .150" adjustment when arms fully extended Collar has Teflon bearings and metal-to-metal clamping. Post is thermally isolated from heat transfer from the base. Arm lock is independent of the pivot lock. 	 Uses vertical lug mounting EHE-2056 Lever gage head mounts directly to arm (as shown) EHE-2048 Lever gage head requires an EAM-1071 adaptor CP-83 Extra arm and swivel clamp assembly (allows mounting two lever gage heads on one stand)
Technical Data				
Total height with base mm / inch	Arm reach mm / inch	Post dia. force mm / inch		adjustment range Order no.* m / inch
457 / 18"	254 / 10"	31.8 / 1.25"	161.7 x 94 / 6.2 x 3.7" 3.	.8 / 0.150" 2400



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Indicator Stand 815 MA with magnetic base





Features

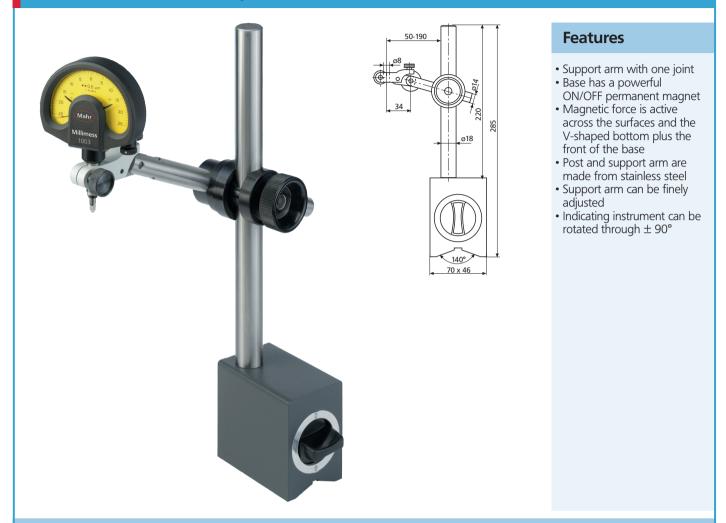
- Support arm with two joints Base has a powerful
- Magnetic force is active across the surfaces and the V-shaped bottom plus the front of the base
- Post and support arm are made from stainless steel
- Support arm can be finely adjusted

Technical Data

	Total height V-way for with base shaft dia.		Magnetic force	Fine adjustment range	Weight	Order no.* Mount dia.	Order no.* Mount dia.	Order no. wooden	
n	nm	inch	mm	Ν	mm	kg	8H7	3/8"	case
2	285	11.2″	20 - 100	450	2	2.5	4416000	4416050	4416001

(Mahr) 8-4 | MarStand. Indicator Stands, Comparator Stands, Run out Testing Instruments

Indicator Stand 815 MB with magnetic base



Technical Data

Total height with V-way for base shaft dia.		Magnetic force	Fine adjustment range	Weight	Order no.* Mount dia.	Order no.* Mount dia.	Order no. wooden	
mm	inch	mm	Ν	mm	kg	8H7	3/8"	case.
285	11.2″	20 - 100	450	2	2.2	4417000	4417050	4416001

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8-5

Indicator Stand 815 MG with magnetic base



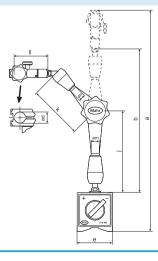
Technical Data

	height base	Projection (max.)	V-way for shaft dia.	Magnetic force	Mounting bore	Fine adjustment range	Weight	Order no.*
mm	inch	mm	mm	Ν		mm	kg	
224	8.82"	130		300			1.6	4420350
316	12.44"	200	6 – 120	800	8H7	2	1.7	4420360
401	15.78"	280	0 - 120	800	0117		1.8	4420370
444	17.48"	330		1000		5	1.9	4420380

* excludes indicating instrument

Dimensions

Dimensions in mm								
а	b	d	е	j	k	Ι	m	Order no.
224	130	8	34 x 34	70	60	62	9	4420350
316	200	8	60 x 50	120	80	64	10	4420360
401	280	8	60 x 50	170	110	66	16	4420370
444	330	8	73 x 50	201	129	67	21	4420380



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(Mahr) 8-6 | MarStand. Indicator Stands, Comparator Stands, Run out Testing Instruments

Indicator Stand 815 P with magnetic base





- Support arm has one joint
- Sturdy circular base with permanent magnet
- Post and support arm are made from stainless steel
- Support arm can be finely adjusted
- Indicating instrument can be rotated through \pm 90°

Technical Data

Total height with base		Magnetic force	Fine adjustment range	Weight	Order no.* Mount dia.	Order no.* Mount dia.
mm	inch	Ν	mm	kg	8H7	3/8"
205	8″	250	1.5	0.7	4422000	4422050

MarStand. Indicator Stands, Comparator Stands, Run out Testing Instruments

Post and Support Assemblies 815 X

For application in inspection equipment for conducting length and concentricity (run-out) tests

40-230

2

ø18

50-100

40-230

50-100

815 XN

for mounting in a T-slot

- Two joints
- Knurled nut for clamping to the post
- Post and support arm are made from stainless steel
- With fine adjustment

Order no. 4424000

815 XMA

with mounting thread

- Two joints
- Post and support arm are
- made from stainless steel
- With fine adjustment

4424005 Order no.

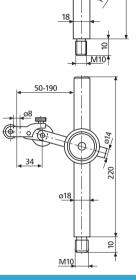
815 XMB

with mounting thread

- One joint
- Post and support arm are made from stainless steel
- With fine adjustment

Order no.





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65

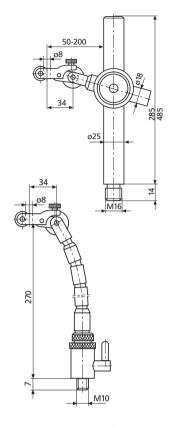


815 XMG

with mounting thread

• Flexible in any direction, arm can be locked in position • With fine adjustment

Order no. 4424010



(Mahr)

8-7

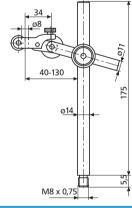
815 XP with mounting thread

• One ioint

• Post and support arm are made from stainless steel • With fine adjustment

4424015

Order no.



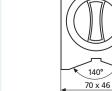
Magnetic Bases 815 Y

For the setting up of inspection equipment or as a base for adjusting devices on machine tools.

815 YM Standard Version

- Base has a powerful
- ON/OFF permanent magnet
- With threaded mounting hole
- V-groove in base • Front is flat
- Magnetic force 450 N

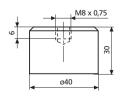
4425000 Order no.



815 YP Round Version

- Permanent magnet plus threaded mounting hole
- Underside of the base is flat Magnetic force 250 N

Order no. 4425002



(Mahr) 8-8

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Center Bench 818



Features

 Ideal for quick and accurate concentricity / run-out checks

Bench:

- Flatness of the surface is in accordance to DIN 876/1
- Two T-slots for Tailstock and / or Support Arm

Tailstock:

- Both Tailstocks can be relocated (slide into position)
- The Tailstock on the right side has a retractable (spring actuated)
- precision aligned centerThe Tailstocks have a peak height of 75 mm with a 90°
- height of 75 mm with a 90° prism for workpieces without a center, to a diameter of 20 mm (.79")

Support Arm 818 XNB:

- Support arm with one joint
- with fine adjustment

Technical Data

	ght of nters <i>(inch)</i>	Distan between mm		Base size (L × W) mm	Lateral and/or height difference of Tailstocks mm	T-slot width mm	Weight kg	Order no.*
50	(2")		(0-8")	350 x 110	0.01	10H7	8	4622200
75	(3")		(0-14")	500 x 110	0.01	10H7	12	4622201
100	(4")		(0-18")	700 x 180	0.01	12H7	35	4622202
150	(6")		(0-18")	700 x 180	0.01	12H7	38	4622203

* excludes indicating instrument

Center Bench 818 with V-support

V-support height mm	Base size (L x W) mm	T-slot width mm	Weight kg	Order no. (excludes indicating instrument)
70	350 x 110	10H7	6.5	4622260
70	500 x 110	10H7	9.5	4622261
120	700 x 180	12H7	30	4622262

Center Bench 818 with Roller support

Roller support height mm	Base size (L x W) mm	T-slot width mm	Weight kg	Order no. (excludes indicating instrument)
70	350 x 110	10H7	6.5	4622250
70	500 x 110	10H7	9.5	4622251
120	700 x 180	12H7	30	4622252

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Modular Units 818 for individual center benches

Accessories

V-support anvils 818 pe in pairs (to change with peaks)						
Center height mm	Dia. range mm	Order no.				
50 / 75 100	3 - 15 8 - 45	4622210 4622211				

V-support 818 pb in pairs

Height * Dia. range mm mm		T-slot width mm	Order no.
65	5 - 20	10	4622215
100	5 - 45	12	4622216

Roller support 818 ab in pairs

Height * mm	Dia. range mm	T-slot width mm	Order no.	
65	3 - 20	10	4622220	
100	3 - 45	12	4622221	

* referred to the center of shaft with dia. 10 mm

Supporting table

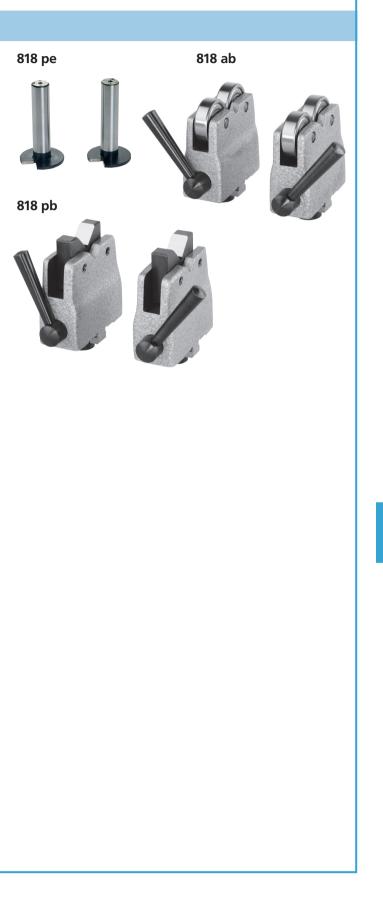
Center height mm	Base size (L x W) mm	Order no.
50	350 x 110	4622265
75	500 x 110	4622266
100 / 150	700 x 180	4622267

Pointed support in pairs

Center height mm	Order no.
50	4622270
75	4622271
100	4622272
150	4622273

Support arm 818 XNB

Center height mm		ort Arm Length mm	Order no.
50 / 75	18	210	4622275
100	18	260	4622276
150	18	360	4622277



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8-9

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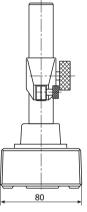
Small Comparator Stands 820

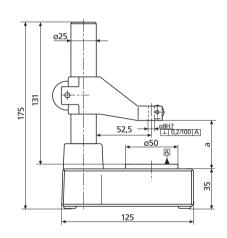


Indicating instruments are sold seperately

Features

- Sturdy design
- Plate is made from either hardened steel or black granite or ceramic
- Rugged ground post made of stainless steel
- Fine adjustment, consisting of a strong, rigid parallel spring assembly (Small Comparator Stands 820 FG and 820 FC)
- Adjustable support arm for a indicating instrument





820 N

lock	DICO	Liata
16(1	ппа	Data
- ICCI	<u>IIIICa</u>	Pata

Work rang a mm	Flatness tolerance (DIN 876) de mm	Fine adjustment range	Weight kg	Order no.* Mount dia. 8H7	Order no.* Mount dia. 3/8 inch	Remarks				
820 NG 0 - 130 820 FG 0 - 130 820 NC 0 - 110	(0 - 4.3") cera		± 0.2 ± 0.2	2.6 3.2 3.2 4.0 4.0	4430000 4430100 4431100 4432100 4433100	4430018 4430110 4431110 4432120 4433110	fine adjustment fine adjustment			
* excludes indicating inst	* excludes indicating instrument									



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820 FC / 820 NC 820 FG / 820 NG Mahr Mahr 820 FC / 820 NC 820 FG / 820 NG ø25 ø25 180 <u>ø8H7</u> [⊥]0,2 |100 |A] 180 67,5 228,5 216,5 67,5 A 80 80 A 20 0 25 100 160 100 155 Accessories

V-Block 108° for checking small, cylindrical work pieces for out of roundness and polygon errors (for further details please refer to Page 12-9)

Small Comparator Stands 820

Order no.

45

4229000 4229001

(Single)

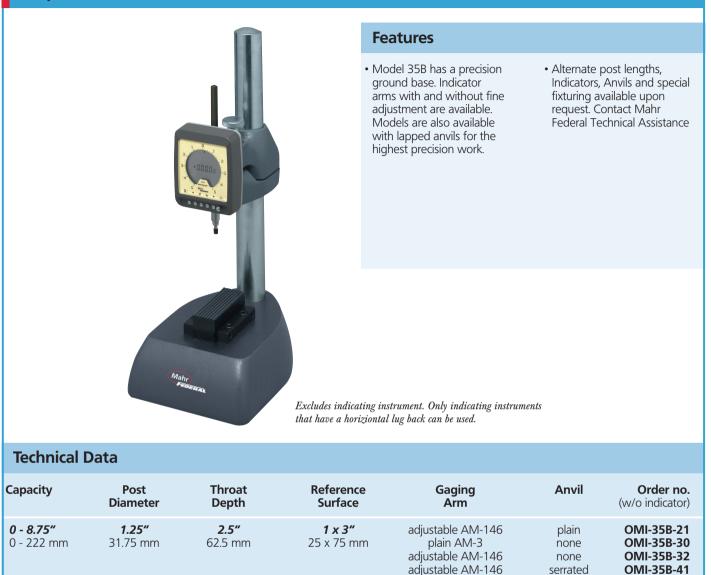
(Pair)

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<u>ø8H7</u> [⊥]0,2]100 [A]

Mahr) 8-12 8-12 MarStand. Indicator Stands, Comparator Stands, Run out Testing Instruments

Comparator Stands 35 B



Accessories

Replacement Anvils

• Anvils for Comparator Stands 35B-21 and 35B-41 are available: Surface is lapped flat to within .00001"

Fine Adjustment Arm

 The Fine Adjust Arm is available separately to convert 35B Comparator Stands with plain arms

Туре	Dimensions	Order no.	Range	Order no.
plain surface	25 x 25 x 75 mm (1 x 1 x 3")	AL-96	1.5 mm / 0.060"	AM-146
serrated surface	25 x 25 x 75 mm (1 x 1 x 3")	AL-97		

Readout Specification: Because of the versatility of the Series 35B and NB-60 Stands, almost any type of readout can be used.

• With Dial or Digital Indicators having a horizontal lug back

+

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Comparator Stand NB-60



Features

 Model NB-60 and NB-61 have the largest base and greatest throat depth. Indicator arms with and without fine adjust are available. Base has a pattern of 1/4-20 tapped holes for mounting platens or special tooling

Shown with optional 1086 indicating instrument. Only indicating instruments that have a horiziontal lug back can be used.

Technical Data

Capacity	Post Diameter	Throat Reference Depth Surface		Gaging Arm	Anvil	Order no. (w/o indicator)
0 - 8"	1.25"	4.88"	9.38 x 6.5"	plain AM-10011	none	OMI-NB-60
0 - 203 mm	31.75 mm	124 mm	238 x 165 mm	adjustable AM-147	none	OMI-NB-61

Accessories

Platens

Type

Fine Adjustment Arm

• The Fine Adjustment Arm is available separately to convert NB-60 Comparator Stands with plain arms

serrated	114 x 152 mm	PL-99		
Schuted	(4.5 x 6")	12.55	Range	Order no.
serrated	152 x 203 mm	PL-147	•	
Schuteu	(6 x 8")		1.5 mm / 0.060"	AM-147

Note: (4) screws SW-1338 are required

Readout Specification: Because of the versatility of the Series 35B and NB-60 Stands, almost any type of readout can be used.

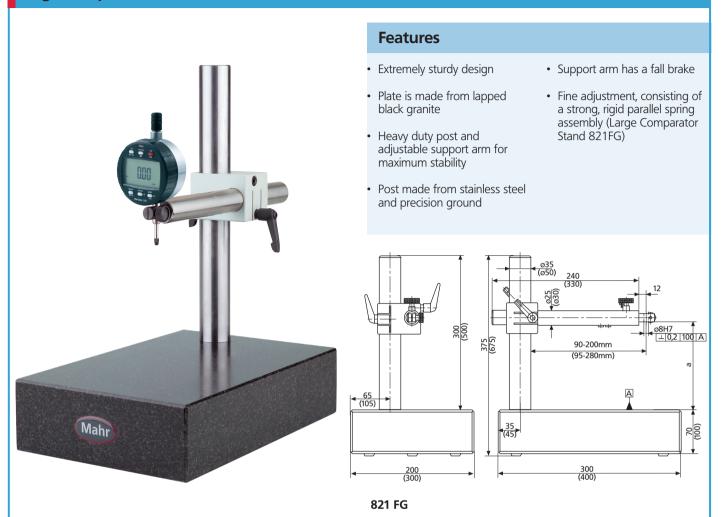
Order no.

• With Air Probes or Electronic Probes having a 3/8 in dia., order Mounting Adapter AAD-66

Dimensions

Mahr 8-14 HarStand. Indicator Stands, Comparator Stands, Run out Testing Instruments

Large Comparator Stands 821



Technical Data

	Working range a		Flatness tolerance (DIN 876)	Fine adjustment range	Weight	Order no.* Mount dia. 8H7	Order no.* Mount dia. 3/8 inch	Remarks
	mm	(inch)	Grade	mm	kg			
821 NG	0 - 250 0 - 430	(0 -10") (0 -17")	0 0		15.8 48	4435100 4435110	4435150 4435160	
821 FG	0 - 250 0 - 430	(0 -10") (0 -17")	0 0	± 0.2 ± 0.2	15.8 48	4435101 4435111	4435151 4435161	Fine adjustment Fine adjustment

* excludes indicating instrument

Accessories

V-Block 108° for checking small, cylindrical work pieces for out of roundness and polygon errors (for further details please refer to Page 12-9)

 Order no.

 107 V
 (Single)
 4229000 (Pair)
 4229001
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Heavy Comparator Stands 824



Precision Stand 824 NT

Without fine adjustment

Precision Stand 824 FT

With fine adjustment, consisting of a strong, rigid parallel spring assembly



Precision Stand 824 GT

For Large Type Millimess. With fine adjustment by way of vertical movement of the mounting socket

Features

Basic Units

- Sturdy, T-shaped base which is made from a special cast iron
- Extremely stable
- Fine adjustment, consisting of a strong, rigid parallel spring assembly
- Support arm has a rotation lock, height of the arm via the toothed rack is adjustable

Plates

- Measuring faces are hardened and lapped
- Longitudinal grooves
- Plates for sum measurements have a 8H7 mm mounting hole for Inductive Probes

Technical Data

Basic Unit

		orking nge <i>(inch)</i>	Fine adjustment range mm	Weight kg	Order no.* Mount dia. 8H7	Order no.* Mount dia. 28H7	
824 NT 824 FT 824 GT	0 - 210	(0 - 8.2") (0 - 8.2") (0 - 8.0")	_ ± 0.2 ± 1.5	17 19 18	4442100 4443100	4444200	4442105 4443105

* excludes indicating instrument, excludes plate

Plates

	Pla	ate s	ize	Flatness tolerance	Mounting hole	Weight	Order no.	Remarks
		mm		μm	mm	kg		
827 b 31	100	Х	40	1		1.2		for single measurement
827 b 32	100	Х	40	1	8H7	1.0		for sum measurement
827 b 33	130	Х	130	1		2.5		for single measurement
827 b 34	130	Х	130	1	8H7	2.5	4082734	for sum measurement

Accessories

V-Block 108° for checking small, cylindrical work pieces for out of roundness and polygon errors (for further details please refer to Page 12-9)

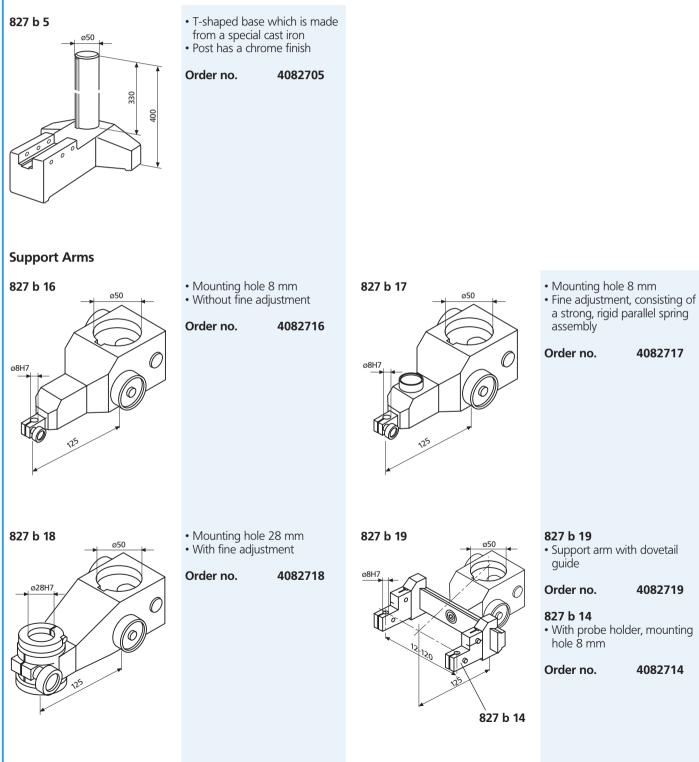
		Order no.
107 V	(Single) (Pair)	4229000 4229001

Mahr 8-16 Image: MarStand. Indicator Stands, Comparator Stands, Run out Testing Instruments

Modular Units 827 for individual comparator stands

For the combination of comparator stands for special tasks, to adapt existing stands as well as the incorporation into inspection equipment for all types of length measurements.

Base with Post



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