

# Stands / Bench centers / Surface plates



Flatness tolerances according DIN 876		
Class	Flatness $t_1$ ( $\mu\text{m}$ )	$L$ = length in mm
00	$2 + L/500$	
0	$4 + L/250$	
1	$10 + L/100$	
2	$20 + L/50$	
3	$40 + L/25$	

C06 000 EN 20170116

## Dial indicator stands

- Clamping shaft  $\varnothing 8$  mm for dial indicators and probes, and dovetail joint for lever-type dial test indicators (908.957 without dovetail joint).
- With fine adjustment (except 908.962/964/957).
- Arm with mechanical central clamping device (908.954/955: hydraulic).
- On/off switchable magnetic base with V-groove, except 908.964 (permanent magnetic force), 908.961 (vacuum base) and 908.975 (*flexform* base with locking mechanism and permanent magnetic force).
- Various bases available.



908.953/959



908.960



908.954/955



908.962



908.975



908.961



908.956/957



908.964

Item No.	Clamping	Arm length <sup>1</sup> /mm	Description of base	Dimensions l x w x h/mm	Magnetic force <sup>2</sup> /N	Thread of base	Price EUR
908.953	mechanical	300	V-groove	58 x 50 x 55	600 <sup>(S)</sup>	M8 x 1.25	26.00
908.959	mechanical	330	V-groove	58 x 50 x 55	800 <sup>(S)</sup>	M8 x 1.25	28.00
908.960	mechanical	285	V-groove	58 x 50 x 55	800 <sup>(S)</sup>	M8 x 1.25	31.50
908.954	hydraulic	385	V-groove	58 x 50 x 55	600 <sup>(S)</sup>	M8 x 1.25	51.00
908.955	hydraulic	370	V-groove	58 x 50 x 55	800 <sup>(S)</sup>	M8 x 1.25	53.00
908.962	mechanical	145	V-groove	36 x 30 x 35	400 <sup>(S)</sup>	M5 x 0.8	27.70
908.964	mechanical	65	cylinder	$\varnothing 30 \times 25$	170 <sup>(P)</sup>	M8 x 1.25	18.60
908.975	mechanical	270	<i>flexform</i>	77 x 48 x 55	400 <sup>(P)</sup>	M8 x 1.25	35.60
908.961	mechanical	280	vacuum base	$\varnothing 90 \times 28$		M8 x 1.25	35.60
908.956	mechanical	350	V-groove	58 x 50 x 55	800 <sup>(S)</sup>	M8 x 1.25	28.60
908.957	mechanical	330	V-groove	58 x 50 x 55	800 <sup>(S)</sup>	M8 x 1.25	28.00

<sup>1</sup> The outstretched length between base and clamping shaft.

<sup>2</sup> S= switchable magnet; P= permanent magnetic force.

PRICE

## Measuring stands

- Clamping shaft:  $\varnothing 8$  mm.
- Transverse arm with fine adjustment.
- Ground base with T-groove.
- Base with V-groove (only 909.376).



Item No.	Column mm	Arm mm	Dimensions base/mm	Price EUR
906.219	$\varnothing 14 \times 185$	$\varnothing 12 \times 245$	220 x 60 x 35	43.00
909.376	$\varnothing 16 \times 290$	$\varnothing 16 \times 310$	260 x 60 x 50	113.00



906.219

## Measuring stand with spindle adjustment

Measuring stand with clear graduation 0.02 mm on the spindle and a hand wheel for easy adjustment of the height setting.

- Clamping shaft:  $\varnothing 8$  mm.
- Spindle thread pitch: 2 mm.
- Column:  $\varnothing 35$  mm.
- Transverse arm:  $\varnothing 20$  mm.
- Granite measuring table: 260 x 150 x 50 mm, measuring face: 250 x 150 mm, flatness according DIN 876/00.
- Total height: 410 mm.
- Max. measuring height: 160 mm.



Item No.	Description	Price EUR
907.789	Measuring stand	527.00



## Measuring stand

Universal measuring stand, also suitable as a controlling measuring instrument.

- Clamping shaft  $\varnothing 8$  mm and dovetail joint.
- Fine adjustment.
- Granite measuring table: 150 x 100 x 40 mm, flatness:  $\leq 10 \mu\text{m}$ .
- Base with groove in the center.
- Screw thread base: M8.
- Long, straight side face with two mounting bores (thread M5, distance 120 mm).
- Mechanical clamping device.
- Total height: 335 mm.
- Maximum height with a lateral dial indicator: 320 mm.
- Weight: 2.2 kg.



Item No.	Description	Price EUR
402.195	Measuring stand	203.00

## Measuring stand

- Clamping shaft:  $\varnothing 8$  mm.
- Total height: 200 mm.
- Max. measuring height: 90 mm.
- Effective arm length: 80 mm.
- Measuring table: 60 x 68 mm, ground and lapped.
- Dimensions transverse arm:  $\varnothing 18 \times 120$  mm.
- Column:  $\varnothing 22$  mm.
- Other dial gauge holders are available on request.



Item No.	Description	Price EUR
857.130	Measuring stand	212.00



## Measuring stands

Measuring stands with a granite base in two models with a competitive price-performance ratio.

- Clamping shaft:  $\varnothing$  8 mm.
- Max. measuring height: 250 mm.
- Anti drop facility.
- Granite table.
- Own product.



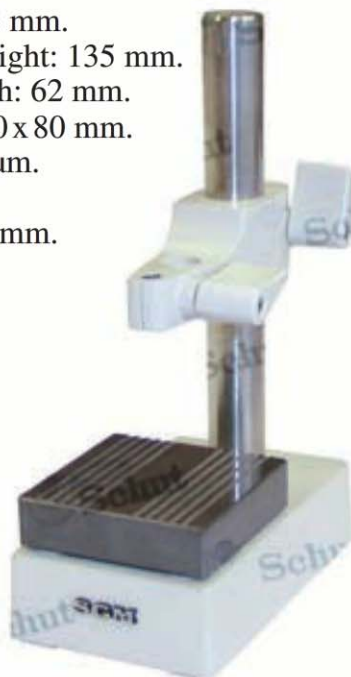
402.165

Item No.	Measuring height/mm	Flatness table/ $\mu$ m	Dimensions table $l \times w \times h$ /mm	Column $\varnothing$ /mm	Effective arm length/mm	Price EUR
402.165	150	10	150 x 100 x 40	25	62	159.00
402.168	250	10	250 x 200 x 55	35	100	275.00

## Measuring stand

Heavy-duty precision stand with alumina ceramic grooved table and plain column.

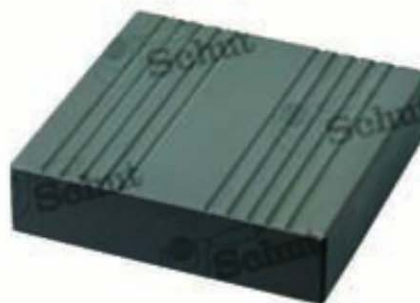
- Clamping shaft:  $\varnothing$  8 mm.
- Max. measuring height: 135 mm.
- Effective arm length: 62 mm.
- Measuring table: 80 x 80 mm.
- Flatness table:  $\pm 1 \mu$ m.
- Column:  $\varnothing$  25 mm.
- Base: 150 x 89 x 37 mm.
- Anti drop facility.
- Own product.



## Measuring table

Grooved measuring table made of alumina ceramics as applied to measuring stand 334.690, with the typical advantages of ceramics: high degree of hardness and wear resistance.

- Flatness:  $\pm 1 \mu$ m.
- Dimensions: 80 x 80 mm.



Item No.	Description	Price EUR
334.690	Precision stand	355.00

Item No.	Description	Price EUR
841.078	Measuring table	296.00

## Measuring stands

- Clamping shaft:  $\varnothing$  8 mm.
- Total height: 320 mm.
- Max. measuring height: 180 mm.
- Hard-chrome plated and ground column:  $\varnothing$  35 mm.
- 857.126 and 857.128 with adjustable transverse arm, length 230 mm.
- Granite measuring table: 260 x 150 mm, measuring face: 200 x 150 mm, flatness according to DIN 876/00.



857.128

857.125

Item No.	Column	Effective arm length/mm	Arm $\varnothing$ /mm	Price EUR
857.125	plain	104	35	457.00
857.126	plain	200	22	511.00
857.127	helical threaded	104	35	517.00
857.128	helical threaded	200	22	569.00

## Measuring stands

- Clamping shaft:  $\varnothing$  20 mm or  $\varnothing$  32 mm.
- Max. measuring height: 290 mm.
- Effective arm length: 167 mm.
- Column:  $\varnothing$  50 mm.
- 996.190/315 with anti drop facility.
- Granite measuring table: 400 x 400 x 70 mm, flatness:  $\leq 5 \mu\text{m}$ .
- DIN 876/0.
- Own product.



996.190

996.189

Item No.	Column	Clamping shaft/mm	Price EUR
996.190	plain	$\varnothing$ 20	496.00
996.189	helical threaded	$\varnothing$ 20	604.00
996.315	plain	$\varnothing$ 32	510.00
<b>Option:</b>			
344.470	Reducing bush $\varnothing$ 20/8 mm		20.00

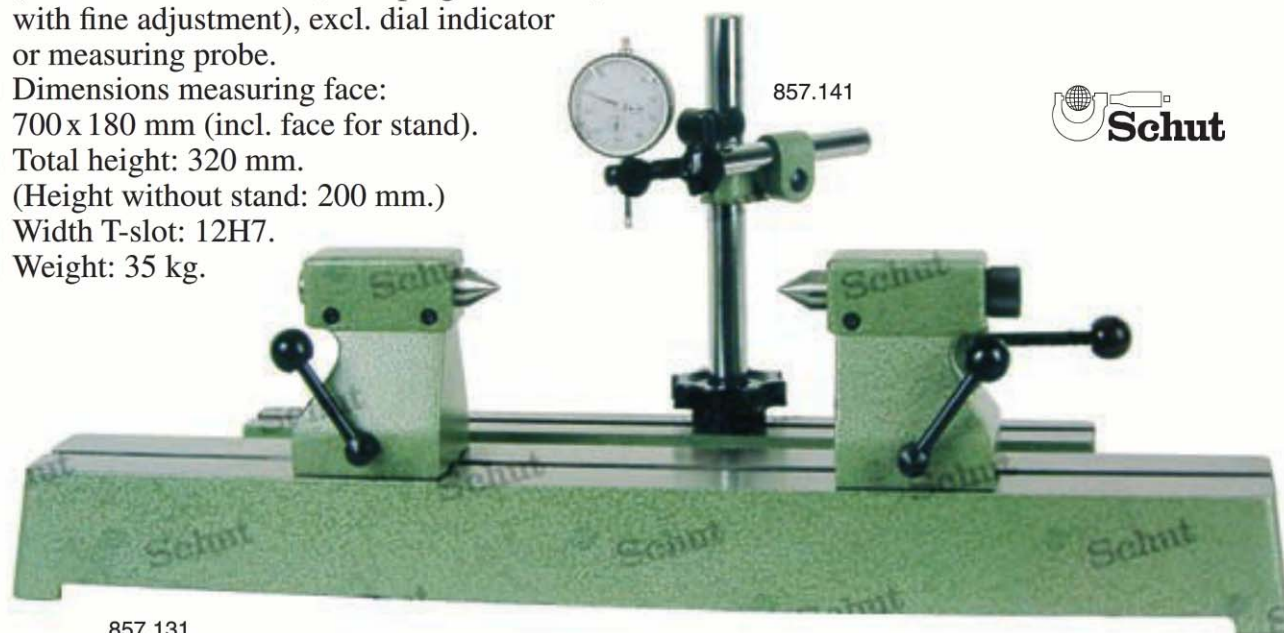
## Bench center

Cast iron base with the measuring face's accuracy according DIN 876/1. Supplied with two tailstocks, one with a fixed center point and one with an adjustable center point by means of a lever.

- Center height: 100 mm.
- Max. center distance: 450 mm.
- Center points: 60°.
- Stroke moveable center point: 8 mm.
- Delivery incl. measuring stand 857.141 (column  $\varnothing 22 \times 230$  mm, clamping shaft 8H7, with fine adjustment), excl. dial indicator or measuring probe.
- Dimensions measuring face: 700 x 180 mm (incl. face for stand).
- Total height: 320 mm. (Height without stand: 200 mm.)
- Width T-slot: 12H7.
- Weight: 35 kg.

- Larger models with granite base are available on request.

Item No.	Type	Price EUR
857.131	RP 100-450	1,863.00



857.131

Item No.	Description	Price EUR
857.179	Pair of center points with tungsten carbide point 60°	157.00
857.178	Pair of center points with bore	95.00
857.175	Pair of prism inserts	167.00
857.136	Pair of V-blocks	248.00
857.137	Pair of roller blocks	278.00
857.176	Stop	96.00
857.177	Dial indicator holder	86.00
857.141	Extra measuring stand	134.00

### Center points ( $\varnothing 22$ mm)

- With tungsten carbide point 60°, or with bore according DIN 332-A 1.6 x 3.8.



### Prism inserts 90°

- Capacity:  $\varnothing 8 - 45$  mm.
- Center height at  $\varnothing 10$  mm: 130 mm.



### V-blocks 90° and roller blocks

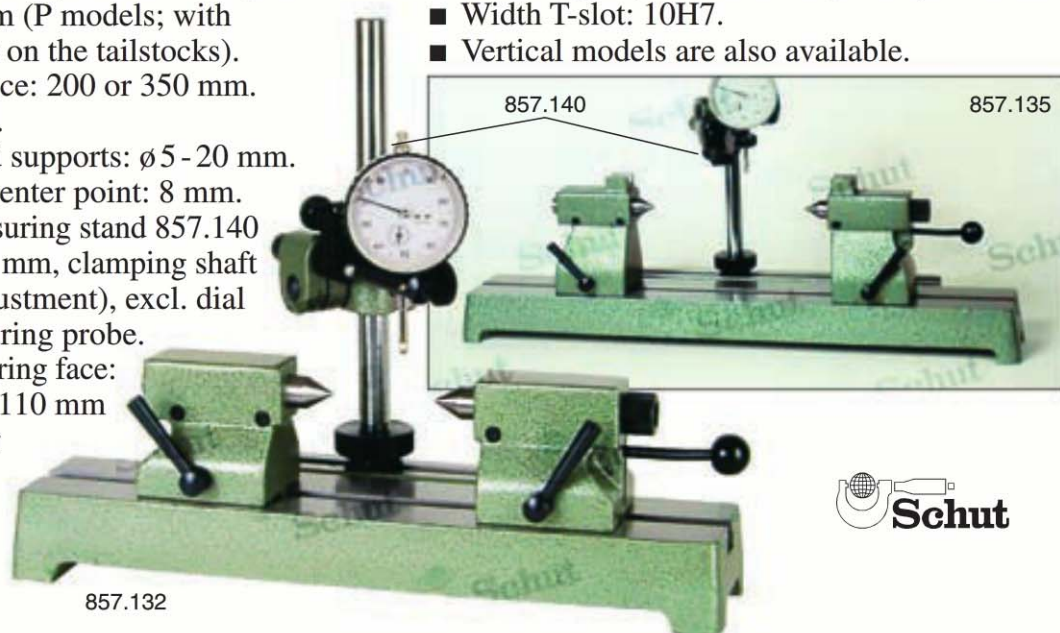
- Capacity V-blocks:  $\varnothing 8 - 50$  mm.
- Capacity roller blocks:  $\varnothing 2 - 60$  mm.
- Center height at  $\varnothing 10$  mm: 100 mm.
- Stop (857.176):  $\varnothing 8$  mm.
- Dial indicator holder (857.177): shaft 8H7.



## Bench centers

Cast iron base with the measuring face's accuracy according DIN 876/1. Supplied with two tailstocks, one with a fixed center point and one with an adjustable center point by means of a lever.

- Center height: 50 mm (without V-shaped supports) or 75 mm (P models; with V-shaped supports on the tailstocks).
- Max. center distance: 200 or 350 mm.
- Center points: 60°.
- Capacity V-shaped supports:  $\varnothing$  5 - 20 mm.
- Stroke moveable center point: 8 mm.
- Delivery incl. measuring stand 857.140 (column  $\varnothing$  16 x 220 mm, clamping shaft 8H7, with fine adjustment), excl. dial indicator or measuring probe.
- Dimensions measuring face: 350 x 110 or 500 x 110 mm (including face for measuring stand).
- Total height (incl. measuring stand): 260 mm.
- Width T-slot: 10H7.
- Vertical models are also available.



Item No.	Type	Center height mm	Max. center distance/mm	Measuring face/mm	Weight kg	Price EUR
857.132	RP 50-200	50	200	350 x 110	8	612.00
857.133	RP 75-200P	75	200	350 x 110	9	659.00
857.134	RP 50-350	50	350	500 x 110	11	759.00
857.135	RP 75-350P	75	350	500 x 110	12	803.00

Item No.	Description	Price EUR
857.174	Pair of center points with tungsten carbide point 60°	104.00
857.155	Pair of center points with bore	64.00
857.180	Pair of prism inserts	89.00
857.138	Pair of V-blocks	168.00
857.139	Pair of roller blocks	204.00
857.172	Stop	70.00
857.173	Dial indicator holder	68.00
857.140	Extra measuring stand	91.00



### Center points ( $\varnothing$ 16 mm)

- With tungsten carbide point 60°, or with bore according DIN 332-A 1.6 x 3.8.



### Prism inserts 90°

- Capacity:  $\varnothing$  3 - 15 mm.
- Center height at  $\varnothing$  10 mm: 70 mm (RP 50) or 95 mm (RP 75).



### V-blocks 90° and roller blocks

- Capacity V-blocks:  $\varnothing$  5 - 25 mm.
- Capacity roller blocks:  $\varnothing$  2 - 40 mm.
- Center height at  $\varnothing$  10 mm: 65 mm.
- Stop (857.172):  $\varnothing$  8 mm.
- Dial indicator holder (857.173): shaft 8H7.



## Granite surface plates

Black granite surface plates according to DIN 876 specifications. Sizes vary from 250 x 250 mm to 2000 x 1500 mm.

- Delivery with an inspection report.
- Cover (synthetic leather) optionally available.
- Surface plate stand optionally available (see “surface plate accessories” elsewhere in this catalog).



402.252

Delivery ex Groningen, Netherlands



Dimensions <i>l x w x h</i> mm	Weight kg	Accuracy according DIN 876/1		Accuracy according DIN 876/0		Accuracy according DIN 876/00		Cover*	
		Item No.	Price EUR	Item No.	Price EUR	Item No.	Price EUR	Item No.	Price EUR
250 x 250 x 50	18	402.000	103.00	402.020	112.00	402.040	135.00	402.250	14.50
400 x 250 x 50	25	402.001	186.00	402.021	201.00	402.041	212.00	402.251	21.00
400 x 400 x 70	46	402.002	219.00	402.022	232.00	402.042	285.00	402.252	24.50
630 x 400 x 70	75	402.003	399.00	402.023	415.00	402.043	483.00	402.253	28.50
630 x 630 x 80	115	402.004	454.00	402.024	491.00	402.044	586.00	402.254	31.50
800 x 500 x 100	120	402.005	484.00	402.025	516.00	402.045	628.00	402.255	37.50
900 x 600 x 100	210	402.006	696.00	402.026	800.00	402.046	907.00	402.256	43.00
1000 x 630 x 100	260	402.007	866.00	402.027	950.00	402.047	1,072.00	402.257	56.00
1000 x 630 x 150	285	402.008	936.00	402.028	990.00	402.048	1,020.00	402.257	56.00
1000 x 1000 x 100	360	402.009	1,227.00	402.029	1,233.00	402.049	1,590.00	402.258	70.00
1000 x 1000 x 150	450	402.010	1,262.00	402.030	1,270.00	402.050	1,594.00	402.258	70.00
1200 x 800 x 120	350	402.011	1,089.00	402.031	1,206.00	402.051	1,607.00	402.259	58.00
1200 x 800 x 150	450	402.012	1,270.00	402.032	1,280.00	402.052	1,614.00	402.259	58.00
1500 x 1000 x 150	680	402.013	2,100.00	402.033	2,250.00	402.053	2,560.00	402.260	75.00
1500 x 1000 x 200	900	402.014	2,200.00	402.034	2,360.00	402.054	2,690.00	402.260	75.00
2000 x 1000 x 200	1200	402.015	3,400.00	402.035	3,640.00	402.055	4,010.00	402.261	95.00
2000 x 1000 x 250	1300	402.016	3,820.00	402.036	4,100.00	402.056	4,510.00	402.261	95.00
2000 x 1500 x 300	2815	402.017	8,480.00	402.037	9,200.00	402.057	9,970.00	402.262	125.00

\* Dimensions of the covers are equal to the length and the width of the surface plate, all covers have a depth of 50 mm.

## Surface plate stands

Extremely solid low cost surface plate stand. Construction is determined on the basis of the Bessels points and has an optional slide protection and chest of drawers. Working height is standard 850-900 mm depending on the surface plate thickness. The standard models and the models with the optional chest of drawers for surface plates equal to or larger than 1000 x 1000 mm bear the load at the Bessels points.

**NEW**



Item No.	For granite surface plates dimensions $l \times w \times t$ /mm	Price EUR
<b>Standard model:</b>		
131.100	630 x 630 x 80	382.00
131.100	800 x 500 x 100	382.00
131.100	900 x 600 x 100	382.00
131.100	1000 x 630 x 100	382.00
131.100	1000 x 630 x 150	382.00
131.104	2000 x 1000 x 200	399.00
131.104	2000 x 1000 x 250	399.00
<b>Optional chest of drawers:</b>		
131.101	630 x 630 x 80	384.00
131.101	800 x 500 x 100	384.00
131.101	900 x 600 x 100	384.00
131.101	1000 x 630 x 100	384.00
131.101	1000 x 630 x 150	384.00
131.102	1000 x 1000 x 100	395.00
131.102	1000 x 1000 x 150	395.00
131.102	1200 x 800 x 120	395.00
131.102	1200 x 800 x 150	395.00
131.103	1500 x 1000 x 150	397.00
131.103	1500 x 1000 x 200	397.00
<b>Options:</b>		
<b>Slide protection for surface plate stands:</b>		
131.105	630 x 630 x 80	92.00
131.106	800 x 500 x 100	96.00
131.107	900 x 600 x 100	107.00
131.108	1000 x 630 x 100/150	116.00
131.109	1000 x 1000 x 100/150	101.00
131.110	1200 x 800 x 120/150	119.00
131.111	1500 x 1000 x 150/200	125.00
131.112	2000 x 1000 x 200/250	128.00
131.113	Chest of drawers, incl. fasteners 610 x 480 x 470 mm; 3 drawers	386.00



## Support set for surface plates

Support set for placing a small surface plate on a working table.



Item No.	Description	Price EUR
997.343	Support set	60.00

## Surface plate cleaner

Surface plate cleaner for granite surface plates. Rubbing in the cleaner dissolves any flaws on the plate's surface. Dust, dirt, grease stains, finger and hand prints will disappear.



Item No.	Description	Price EUR
407.303	Cleaner, 500 ml	7.00