



Centering device

Convenient tool to find and set up the position of a workpiece on vertical and horizontal machines. It can also be used to determine the position of a workpiece when the spindle is rotated by hand or automatic. Easy read-out from stationary dial indicator. Instrument with compact dimensions.

- Max. range of use: 300 mm.
- Scale read-out per rotation: 0 - 3 mm.
- Graduation: 0.01 mm.
- Centering inside and outside with various probes.
- 3 straight and 3 bended probes included.
- Center feeler included.
- Spindle rotating speed max. 800 rpm.
- Compact dimensions.
- For horizontal and vertical use suitable.
- Clamping stem: ϕ 10 mm.
- Delivery in a case.



Item No.	Description
907.451	Centering device
Option:	
907.445	Probe set (7 pieces)

Edge finders

Edge finders for both stationary and rotating use. As soon as the workpiece is touched by the ballprobe the all around visible LED will light up due to galvanic contact. The ballprobe is held in place by a spring. When the pressure on the tip becomes too large the ball will flip away sideways. The edge finders are also available with additional sound signal for extra working comfort.

- Concentricity: <0.01 mm.
- Diameter ballprobe: 10 mm.
- Delivery in a case.
- Power supply: 907.456/460: 2 batteries type V357, 907.454/458: 1 battery type 23A.



Item No.	Clamping stem ϕ /mm	Length mm
907.454	20	162
907.456	20	100
With sound signal:		
907.458	20	162
907.460	20	100
Options:		
836.535	Spare battery (2 needed)	
497.931	Spare battery	



3D probes for centering and measuring

For easy and with high accurate setting the reference point of workpiece in all three axes (X, Y and Z), vertically and horizontally.

- Measuring range: max. \pm 2 mm (rupture point in probe).
- Analog: graduation 0.01 mm, digital: resolution 0.001 mm.
- Clamping stem: ϕ 20 mm.
- Insert length 25 mm, stylus tip ϕ 4 mm (insert length 65 mm and diameter 8 mm optional).
- mm/inch conversion (only 853.822).
- Digit height: 8.5 mm (only 853.822).
- Isolation between insert and insert thread: for use on all machining centres and EDM machines.
- Insert thread: M3.
- Protection: analog: IP67, digital: IP64.



Item No.	Description	Accuracy mm	Repeatability mm
853.821	Analog 3D probe	\pm 0.01	0.01
853.822	Digital 3D probe	\pm 0.005	0.001
Options:			
495.157	Spare battery		
853.823	Spare insert 25 mm, tip diameter 4 mm		
853.824	Spare insert 65 mm, tip diameter 8 mm		

Edge finders

Rotating edge finders for accurate edge location.

- Resolution: 0.005 mm.
- Repeatability: 0.005 mm.
- Range of use: 400 - 600 rpm.
- Hardness TiN measuring face: 2200 HV.



Item No.	Clamping stem ϕ /mm	Probe ϕ /mm	Material (measuring face)
909.360	8	10	steel
909.361	10	10	steel
909.362	8	4 and 10	steel
909.363	10	4 and 10	steel
909.364	6	6	steel
909.365	10	10	steel + ceramic
909.366	10	10	steel + TiN
909.367	10	4 and 10	steel + TiN
Options:			
909.368	Spring for 909.360/362		
909.369	Spring for 909.364		
909.359	Spring for 909.365		
909.349	Spring for 909.361/363/366/367		

Z-axis setting gauge

For easy presetting the Z-axis with a tool, with or without in combination with parallel blocks to set a specific height. As soon as the tool touches the setting gauge (with floating top) the built-in red LED illumination will light up. After this the axis will move in opposite direction until the lamp turns off, this is the turning point, and so the setting gauge, to determine the accuracy.

- Repeatability: 0.01 mm.
- With magnetic base.
- Galvanic contact principle.

- Dimensions: ϕ 54 x 50 mm (precise height to determine with external measuring instrument).
- Weight: 450 g.
- Power supply: 2 batteries type V389.



Item No.	Description
908.804	Z-axis setting gauge
Option:	
498.823	Spare battery (2 needed)

Digital Z-axis setting gauge

For easy presetting the Z-axis with a tool, with or without in combination with parallel blocks to set a specific height.

- Graduation: 0.01 mm.
- Repeatability: 0.01 mm.
- With magnetic base.
- mm/inch conversion.

- Automatic switch-off.
- Height: 50 mm (precise height to determine with external measuring instrument).
- Weight: 377 g.
- Power supply: 1 battery type V357.
- Delivery with reference pin for insert in tool holder.



Item No.	Description
910.169	Z-axis setting gauge
Option:	
836.535	Spare battery

Z-axis setting gauge

For easy presetting the Z-axis with a tool, with or without in combination with parallel blocks to set a specific height.

- Graduation: 0.01 mm.
- Repeatability: 0.02 mm.
- With magnetic base.
- Diameter dial indicator: ϕ 35 mm.



- Height: 50 mm (precise height to determine with external measuring instrument).
- Weight: 1013 g.
- Delivery with reference pin for insert in tool holder.

Item No.	Description
909.460	Z-axis setting gauge



Tool presetters

Cost effective solution as an additional setup directly next to your machine, for setting up and accurately measuring length and diameter of milling, turning and drilling tools. Increase your machine up-time through rapid manual movement with release/hook-up button and fine adjustment using the hand wheel (only 837.928/916).

- Resolution: 0.01 mm.
- mm/inch conversion.
- RS232C data output.
- On/off switch.
- Preset.
- Interchangeable rotating chuck.

- Delivery incl. rotating chuck ISO 40.
- Conforms to factory standard.
- Delivery in a wooden case.
- Power supply: 2 batteries type CR2032.
- Various models with extended functionality available on request.



Options

Item No.	Type
Rotating chuck:	
837.930	ISO 30
837.917	ISO 40
837.931	ISO 45
837.932	ISO 50
837.933	HSK 40
837.934	HSK 50
837.935	HSK 63
837.936	VDI 40
837.937	DLBH-SKF 63
ISO reductions:	
837.938	50-45
837.939	50-40
837.940	50-30
837.941	40-30
837.942	50HSK40
837.943	50HSK50
837.944	50HSK63
Spare battery:	
495.157	CR2032

Item No.	Measuring range/mm	Dimensions l x w x h/mm	Weight kg
Without fine adjustment:			
837.929	160 (ϕ 320)	320	420 x 150 x 755
With hand wheel for fine adjustment:			
837.928	160 (ϕ 320)	320	584 x 150 x 520
837.916	260 (ϕ 520)	520	684 x 150 x 848