...for best measuring results





The professional and compact TOOL PRESETTING SOLUTION for your manufacturing with the unique MODULAR CONCEPT

- precise
- reliable
- sustainable





THE PERFECT MATCH



Why PWB - because of today's growing demand on quality, optimised production process and flexibility!

- Fast and precise measuring in high quality
- Optimised setup times and machine downtime
- Cost-saving
- Increased tool life
- Manufactured with branded components
- Intuitive software and ergonomic hardware
- Economical
- Worldwide online-support
- Quality "Made in Switzerland"

Evoset is an international acting company in the field of tool presetting and measuring.

We combine professional productivity with ultimate user-friendliness and tailor made solutions.

The products focus is on optimised implementation of individual customer needs. Evoset AG offers intelligent and complementary solutions with a great price-performance ratio. This allows companies to improve the utilisation of their capital-intensive CNC machines and to increase their productivity up to 25% per unit.

As a production industry partner, Evoset AG continually develops new devices and systems in order to further optimise industrial processes.

In-house developments of measuring units, software, assembly and an engineering staff ensure required know-how and success for your investments.



PROFESSIONAL EQUIPMENT

TECHNICAL DATA

Туре	Pneumatic clamping, practical design and ease of use
Measuring range	ø mm 400 / L mmm 40 400 ø mm 400 / L mmm 40 600 ø mm 600 / L mmm 40 400 ø mm 600 / L mmm 40 600
Axis fixation	Pneumatics
Axis fixation Fine adjustment	Pneumatics Handwheel per axis

YOUR BENEFITS

- Image processing with EyeRay® software
- EyeRay® autofocus: automatic and fast focusing of cutter
- High concentricity due to needle bearing (2 μm)
- High measuring repeatability (±2 μm)
- CMOS digital camera with tele centric lens
- All-in-one PC 20.00" power touch- technology with 55-fold magnification
- Cutting edge inspection with LED incident light
- Glass scale
- Infinite fine adjustment in X- and Z-axes
- Measuring field offset in the X- and Z-axes (up to X –150 mm)
- With integral ISO50 or ISO40 spindles
- Spindle clamping
- Label printer
- Sturdy cast iron base
- Unit Base
- Tray for toolholders

OPTIONS

- Data transfer by 2D.ID technology
 Post-processor for any machine control RFID data carriers
- Tool management
- LED ringlight
- Indexing device for rotary tools
- Vacuum clamping
- Pneumatic spindle brake
- Camera measuring-systems
 CHC / Center Height Camera



Height measuring of turning tools.

YAC / Y-Axis Camera



Measuring of multi-edge tools with offset cutting.

Measuring range + 20 mm up to - 20 mm

VHC / Vertical-Horizontal Camera



Measuring in horizontal and vertical directions. The camera is horizontally and vertically adjustable with any intermediate angles - this allows measuring of cutting angles and radii.



PROFESSIONAL EQUIPMENT







SOFTWARE



EyeRay® SOFTWARE FOR PRACTICAL APPLICATION

All FUNCTIONS of the software can be operated through only six basic icons.

The operator works in a single screen and handles the system after a short training safely and quickly using all functions. Favourite fields can be created individually by the user.

DATA TRANSFER ensures error-free and convenient transfer of measurement and tool data. EyeRay® software supports all link interfaces available to machine controls.

With data transfer you gain more machine capacity and safety by excluding incorrect manipulations. The user can concentrate fully on the smooth operation of the CNC machines and is not distracted by data input.









MEASURING METHODS	Hawk	Buzzard
Maximum method	X	X
Presetting method	X	X
Total image method	X	X
Multi-cutting edge method	X	X
Incident light method with single LED	X	X
Incident light method with ring light	0	0
Fixed-axis method	X	X
Centre method	X	X
Preset theoretical angle and radius	X	X
Point measurement	0	X
Centre height measurement with camera CHC	0	0
MEASURING FUNCTIONS		
Basic measuring functions	X	X
Advanced measuring functions	_	X
User-created measuring functions	_	X
Measuring window	X	X
Special measuring functions	0	0
SETTINGS		
Multi-lingual / individual adjustable	X	Х
Illumination setting	X	X
Camera parallelism	X	X
Pixel size	X	X
Axis parallelism	X	X
Absolute zero	X	X
Parameters	X	X
PRINT		
Label print format 1	X	X
Label print format 2	-	0
Print tool list	X	Х
Print measuring report	-	0
DATABASE		
Reference point management	X	X
Basic tool management	_	X
Full tool management	_	0
Backup and restore	X	X
DATA TRANSFER		
Tool list create / print	X	X
Tool list open / save		X
Data output to file (post-processor)	0	0
Data output to a storage medium (e.g. Baluff)	0	0
Export to Excel		0
",X" \rightarrow Standard ",O" \rightarrow Optional ",-" \rightarrow	Not availa	able

ACCESSORIES

SK

- Reduction SK/ISO to SK/ISO In-house calibration ensures consistent quality
- Offset value is engraved on the reduction according to the following table



Offset value (Z)			
Internal	Externa	al shape	
shape	SK50 / ISO50	SK40 / ISO40	
SK10	30 mm	30 mm	
SK15	30 mm	30 mm	
SK20	15 mm	15 mm	
SK25	15 mm	15 mm	
SK30	15 mm	15 mm	
SK35	15 mm	15 mm	
SK40	15 mm	-	
SK45	15 mm	-	

HSK (shapes A to F)

- Reduction SK/ISO to HSK, available with and without clamping attachment
- Offset value is engraved on the reduction according to the following table



Offset value (Z)		
Internal	Externa	l shape
shape	SK50 / ISO50	SK40 / ISO40
HSK-A25	15 mm	15 mm
HSK-A32	15 mm	15 mm
HSK-A40	15 mm	15 mm
HSK-A50	15 mm	15 mm
HSK-A63	15 mm	60 mm
HSK-A80	52 mm	-
HSK-A100	70 mm	-

VDI with clamp lever

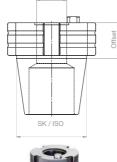
- Clamping of the VDI tool holder with clamping lever
- Clearance provided in the reduction for O-ring of the VDI shank



Offset value (Z)			
Internal	External	l shape	
shape	SK50 / ISO50	SK40 / ISO40	
VDI16	50 mm	50 mm	
VDI20	35 mm	35 mm	
VDI25	35 mm	35 mm	
VDI30	35 mm	35 mm	
VDI40	35 mm	70 mm	
VDI50	35 mm	90 mm	
VDI60	100 mm	-	

VDI with index

- 4x90° indexing on reduction.
 VDI tool holder is aligned in reduction by means of centring pins
- Clearance provided in reduction for O-ring of the VDI shank





Offset value (Z)		
Internal	External	shape
shape	SK50 / ISO50	SK40 / ISO40
VDI16	50 mm	50 mm
VDI20	35 mm	35 mm
VDI25	35 mm	35 mm
VDI30	35 mm	35 mm
VDI40	35 mm	80 mm
VDI50	35 mm	-
VDI60	100 mm	-
VDI80	140 mm	-

Capto ,easy

 Capto tool holder is centred using the 3 highest points of the polygon in the reduction, fixed with clamping claw



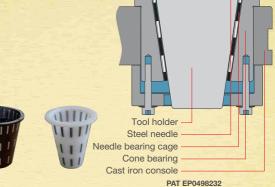
Offset value (Z)		
Internal	External	shape
shape	SK50 / ISO50	SK40 / ISO40
C3	15 mm	-
C4	15 mm	-
C5	15 mm	-
C6	15 mm	-
C8	52 mm	-
C10	80 mm	-



PWB NEEDLE BEARINGS

FOR HIGHEST REPEATABILITY

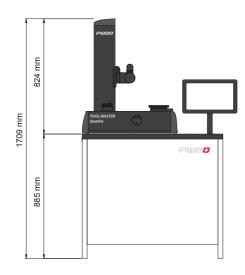
- Protection against damage of the ground cone
- Lower surface pressure than ball-bearings, thus less wear
- Higher centring forces than when using surface contact
- Oil and dirt remain in the cavities and have no influence on the measuring accuracy
- Integrated edge protection when changing tools
- Easy to clean
- No maintenance costs

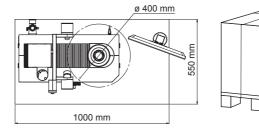


SK 40 / SK 50

ISO40 / ISO50

EASY PACK





The base is designed such that the device is packaged and shipped in it saving space, reducing cost and environmentally friendly.

TOOL MASTER Quadra incl. base structure L,W,H 118 x 70 x 151 cm ~ 200 kg in wooden crate



ONE SOURCE SOLUTION

THE SERVICE LEVEL YOU NEED



In addition to our strong product development, planning and production, we offer our customers an experienced and professional worldwide service.

Our high qualified technical team will accompany you from planning to commissioning.

Thanks to our online-maintenance, we guarantee expert problem diagnosis, fast spare parts delivery of all repairs and maintenance issues.



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