PWB+
the smart way of tool presetting!

...for the best measuring results

HOMAG GROUP

ROYAL *Variset*
Tool Management Systems

ONE SOURCE SOLUTION
THE SERVICE LEVEL YOU NEED
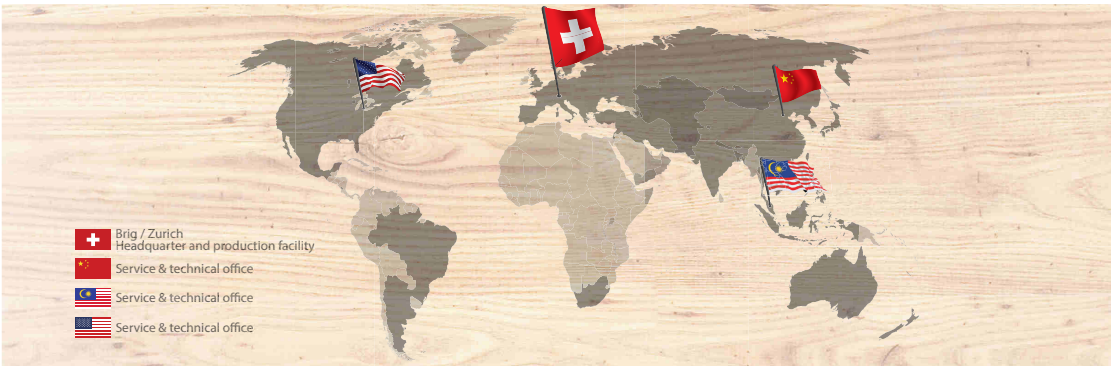
Brig / Zurich
Headquarter and production facility

Service & technical office

Service & technical office

Service & technical office

TOOL MASTER WOOD

PWB+

TOOL MASTER Wood

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.

HOMAG GROUP

HOMAG Group AG
Homagstrasse 3-5
72296 Schopfloch
GERMANY
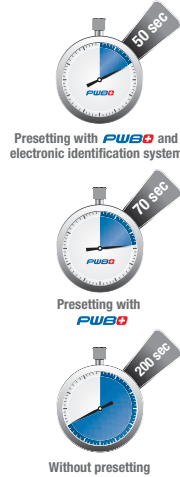**Tel: +49 7443 13 – 0**
www.homag-group.com

Tool presetting
The professional and compact solution for your manufacturing

- precise
- reliable
- sustainable

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ROYAL *Variset*
Tool Management Systems

evo^{et}

PWB+

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THE PERFECT MATCH

Presetting with **PWB+** and electronic identification system
50 sec

Presetting with **PWB+**
70 sec

Without presetting
200 sec

PWB NEEDLE BEARINGS FOR HIGHEST REPEATABILITY

- Protection against damage of the ground cone by surface errors of the tool
- 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

ISO40 / ISO50   SK 40 / SK 50

Werkzeughalter
Stahlnadel
Nadellager Käfig
Konuslager
Gusskonsole

PAT EP0498232

WHY PWB FOR HOMAG?

Evoset is an international acting company in the field of tool presetting and shrinking.
We combine professional productivity with ultimate user-friendliness and tailor made solutions.

The products focus are on optimised implementation of individual customer needs. Part of a strong engineering group, Evoset AG offers intelligent, complementary solutions with a great price-performance ratio. This allows companies with machinery to improve the utilisation of their capital-intensive CNC machines and to increase their productivity on average by 25% per unit. As a production industry partner, Evoset AG continually develops new devices and systems in order to further optimise industrial processes.
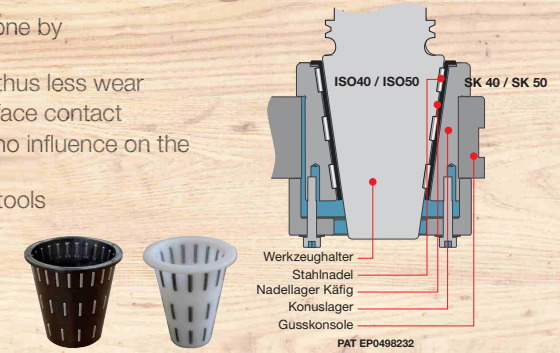
In-house developments of measuring units, software, assembly and an engineering staff ensure required know how and success for your investments.

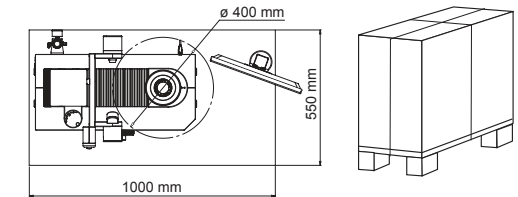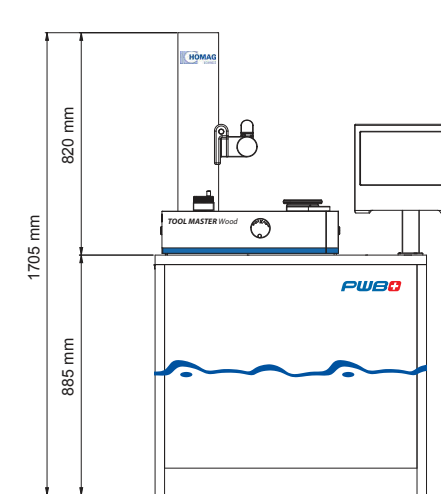PWB-branded products can be found in production facilities all over the world.

- Optimised setup times
- Reduced machine downtime
- Increased tool life
- Tool inspection
- Aggregate management
- Top price – performance ratio
- Online support – directly on the device

EASY PACK

1705 mm
820 mm
885 mm

TOOL MASTER Wood

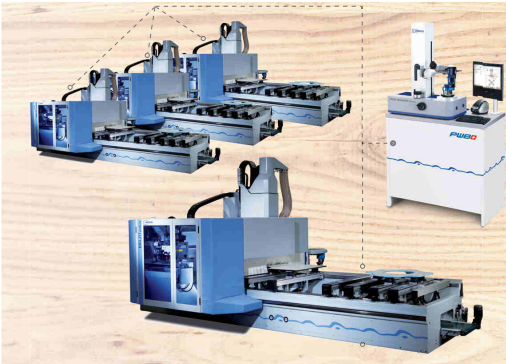PWB+

ø 400 mm
550 mm
1000 mm

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

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

THE PERFECT OPTIONS

DATENTRANSFER / DATA CONNECTION

If the TOOL MASTER is connected directly with the machining centre, the tool data can be transferred online to the machine control. This will gain you 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 complex data input.

EyeRay® is prepared for the management of post-processors and can communicate with data carriers on the tool holders. Use of this option is very easy and ensures error-free and convenient transfer of measurement and tool data.

PROFESSIONAL EQUIPMENT

TECHNICAL DATA

Type	Pneumatic clamping, practical design and ease of use
Measuring range: Standard (ø mm / L mm) Max. (ø mm / L mm)	400 / 40 .... 400 400 / 40 600
Axis fixation:	Pneumatics
Fine adjustment:	Handwheel per axis
Tool mounting:	Needle bearings or KV spindle with rotation lock and vacuum pull in
Measuring procedure:	Image processing with **EyeRay®** BUZZARD WOOD

ACCESSORIES

HSK (Shapes A to F)

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

Offset value (Z)	
Internal shape	External shape
	SK50 / ISO50
HSK - BDF 40	15 mm
HSK - BDF 50	15 mm
HSK - BDF 63	15 mm
HSK - BDF 80	15 mm
HSK - BDF 100	52 mm

- Adapter HSK-63 Wood for aggregates as well for tools with the shape HSK-B/D/F 63

Offset value (Z)	
Internal shape	External shape
	SK50 / ISO50
HSK - BDF 63	52 mm

- HOMAG Tool Boy – The versatile and secure mounting device for aggregates and tools.
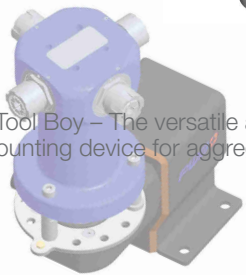
YOUR BENEFITS

- Image processing with EyeRay® software Buzzard Wood with aggregate management
- All-in-one PC with 15.6" touchscreen monitor for easy and quick operation
- Infinite fine adjustment in X- and Z-axis
- Quick focusing of the tool cutting edge
- CMOS digital camera with tele centric lens
- Label printer
- High concentricity due to needle bearing
- High measuring repeatability
- Smooth recirculating ball bearing guides
- Sturdy cast iron base
- Base

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PROFESSIONAL EQUIPMENT

HOMAG

TOOL MASTER Wood

TOOL MASTER Wood

PWB+

LabelWriter 450

SOFTWARE

The software for practical application. All functions of the software can be operated through seven basic icons. The operator works in a single screen and handles the system after a short training course safely and quickly using all functions. Favourite fields can be created individually by the customer.

	AGGREGATE MANAGEMENT	Buzzard WOOD
	Graphics of the aggregates	X
	Geometric data	X
	Technology data	X
	Print aggregate list	X
	MEASURING METHODS	Buzzard WOOD
	Maximum method	X
	Presetting method	X
	Total image method	X
	Multi-cutting edge method	X
	Incident light method with single LED	X
	Incident light method with ring light	O
	Fixed-axis method	X
	Centre method	X
	Preset theoretical angle and radius	X
	Point measurement	X
	Centre height measurement with camera CHC	O
	MEASURING FUNCTIONS	Buzzard WOOD
	Basic measuring functions	X
	Advanced measuring functions	X
	User-created measuring functions	X
	Measuring window	X
	Special measuring functions	O
	BASIC SETTINGS	Buzzard WOOD
	Illumination setting	X
	Camera parallelism	X
	Pixel size	X
	Axis parallelism	X
	Absolute zero	X
	Parameters	X
	PRINT	Buzzard WOOD
	Label print format 1	X
	Label print format 2	O
	Print tool list	X
	Print measuring report	O
	DATABASE	Buzzard WOOD
	Reference point management	X
	Basic tool management	X
	Full tool management	O
	Backup and restore	X
	DATA TRANSFER	Buzzard WOOD
	Save /open tool list	X
	Data output to file (post-processor)	O
	Data output to a storage medium (e.g. Baluff)	O
	Export to Excel	O

„X" → Standard   „O" → Optional