STP 500

STP 500
Schneider Tool Presetter – the optical tool presetting device

- Precise
- Intuitive
- Networked

SCHNEIDER ®
MESSTECHNIK

SIMPLY PRECISE

STP 500 – optical tool presetting device

Simple operation and the highest precision

Design

- Touchscreen PC with Windows® operating system
- Intuitive and easy operation of the measurement software
- CMOS colour camera
- Calibration unit mounted on the basic frame
- Fast adjustment of the axes (X / Z) either individually or simultaneously
- Fine adjustment of the axes (X / Z)
- Spindle with 4 x 90° indexing

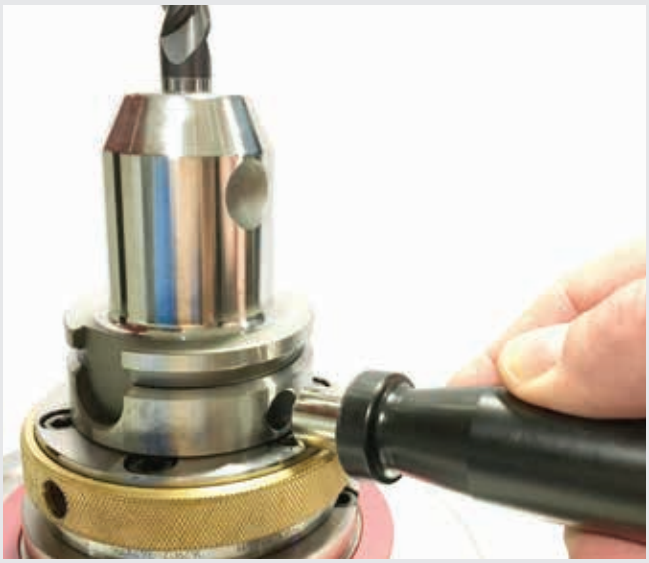
Use

- Measurement and presetting of the tools on the machine or production island
- **Scope of supply:** Basic device with HSK63 spindle, including calibration unit on the basic frame, cutting edge cleaner and touchpen

Special accessories

- Workstation 130
- SK50 spindle
- Label printer

Tool identification – RFID chip or DPM code scanner



Automatic tool identification

The write/read head is used to write the tool data on to the RFID chip of the tool holder clamped into the STP 500 and can then be read out automatically at the processing machine.

RFID write/read head BIS-M

The RFID system BIS-M (13.56 MHz) supports global ISO standards and scores highly for its high transfer speed of large data volumes. The tool is identified via a RFID chip integrated in the tool holder. The tool data is read out and the corresponding tool is found and opened in the tool database.

RFID write/read head BIS-C

The low-frequency RFID systems BIS-C (70/455 kHz) are particularly efficient and flexible at reliably identifying tools in processing centres with high levels of coolant and lubricant. The tool is identified via a RFID chip integrated in the tool holder. The tool data is read out and the corresponding tool is found and opened in the database.

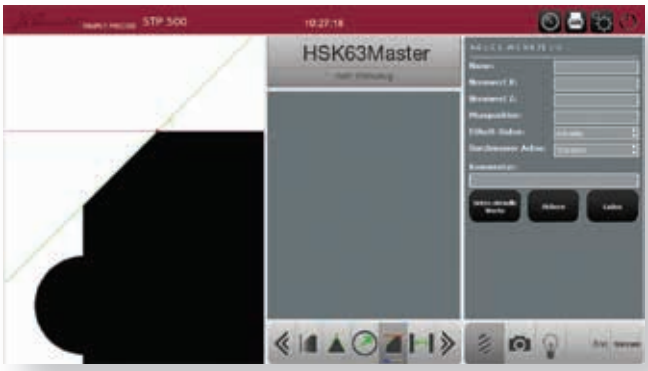
DPM code scanner

The tool is identified using a direct part marking (DPM) code scanner via a data matrix code integrated in the tool holder. The tool is identified in the tool database and the data record is opened.

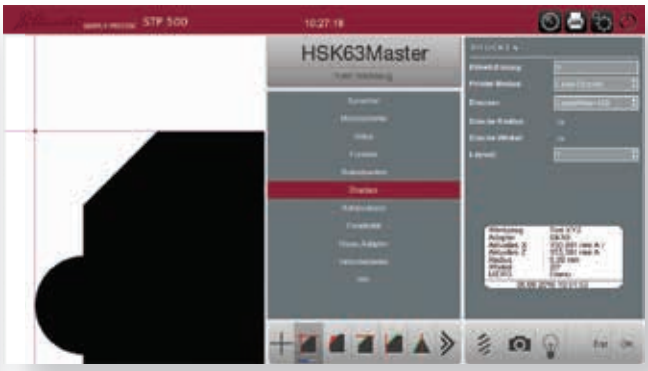
Intelligent and user-friendly

- Clearly structured interface
- Easy and direct access to major functions
- Functions are selected via self-explanatory icons

- Fast inspection of the tool geometry
- Radius template selectable from 0.1 mm to 13 mm as well as in all four quadrants
- Angle template selectable from 0° to 360°

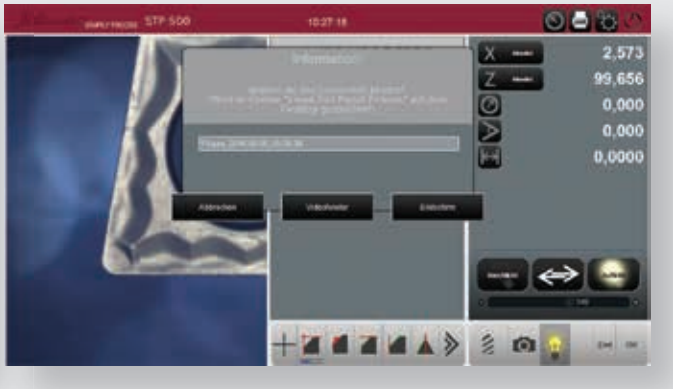


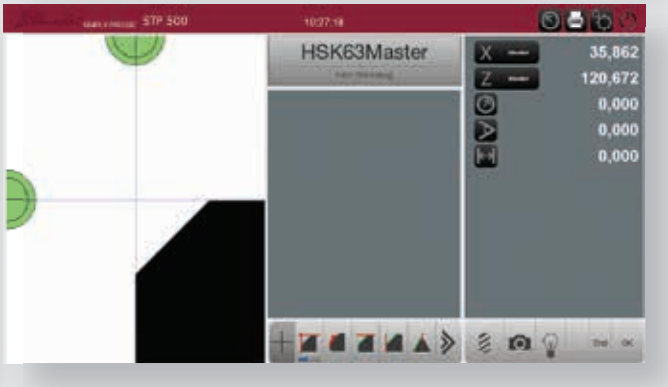
- Dynamic cross hair automatically adjusts itself if the X- and Z-axis moves
- Fast measurement of the tool via the dynamic cross hair



- Measurement values can be printed on all available label sizes and standard printers
- Four different layouts for the label printer

For more detailed information, please visit our website at **www.dr-schneider.de**





- Insertion aid provided to easily align the cutting edge
- Graphical keyboard ensures fast input
- Adapter and tools can be created, saved and called up again at any time
- Images can be stored and archived
- Incident light function enables the cut to be inspected during the setting and measurement process

Highlights

Easy to use, precise to the detail

- Ergonomic design
- Touchscreen monitor
- Easy to use via icons
- Base plate made of high-strength cast aluminium providing a robust design
- Calibration device integrated into basic frame HSK63
- Z = 500 mm / X = 400 mm

CMOS colour camera

- Fast generation of live image with 30 images per second
- Telecentric optical system for accurate imaging of the tool on to the camera chip

One-hand operation

- With electromagnetic quick adjustment

HSK63 spindle

❶ Spindle with calibration edge
❷ Indexing 4x90°

Continuous fine adjustment

- X- and Z-axis

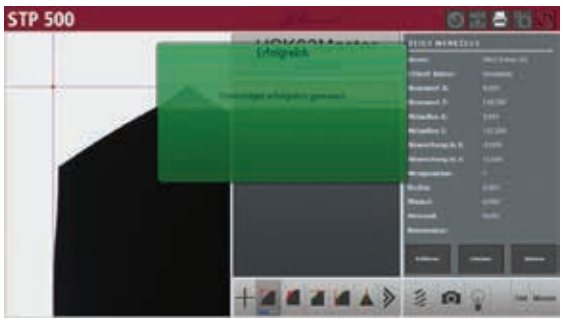
STP 500

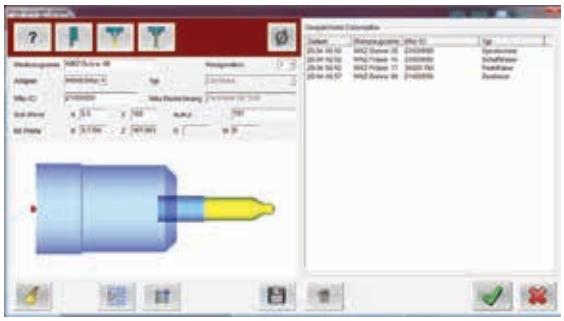
TDB to record tool data

The TDB tool database clearly structures and documents the process from the first time the cutting tool is used through its wear-related decommissioning. The different option packages allow tool presetting fixture STP 500 to be optimally adapted to its environment and your requirements, including with a view towards the use of Industry 4.0 in a smart factory.

- Unique tool ID
- Automatic saving of measurement data
- Easily retrieve (additional) data
- Data interface for CAM systems

- Saving the setting dimensions of the measured tool/saving setup data
- Simultaneous saving of the measurement program
- Structured storage with a unique tool ID number
- Measurement data can be saved via DMC
- Individual access to database information
- Easy management of tool master data or additional data
- General and tool type-specific parameters
- No double data entries
- Access to catalogue data from the tool manufacturer
- Easy Convert – the editor-based post processor
- Creation of your own post-processors





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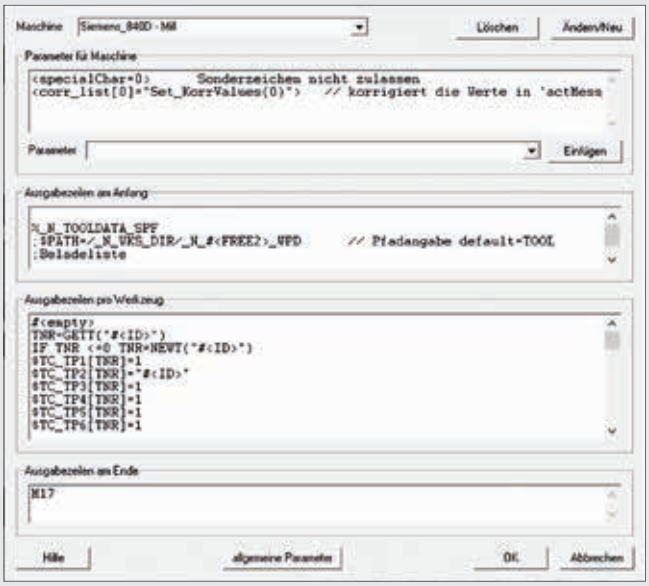
Closed loop with the processing machine



- The actual tool data is accurately prepared for the machine control system by a post processor
- The actual tool data can be automatically transferred from the presetting device to the machine control system
- The actual tool data can be provided with a data matrix code so that it is easy to reimport into the machine control system

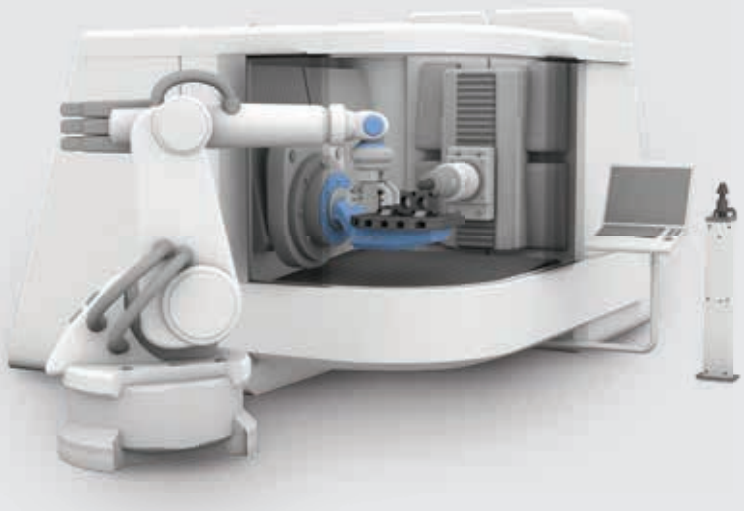
The standard scope of delivery contains four control-specific post processors for

- Siemens 840D milling machine
- Siemens 840D turning machine
- Heidenhain
- Traub

Easy Tool-ID

The innovative extension for transferring data to the tool machine

Easy Tool-ID is a cost-effective, entry-level solution for tool management processes. Simple installation and configuration ensure that every machining centre can be connected via a USB interface. The tool data are written on the RFID chip, integrated in the tool holder by the preseting device and tranfered to the machining centre by the Easy Tool-ID system. Manual entry in the machine control system is no longer necessary. There is no risk of making an incorrect entry and setup times are reduced significantly.



Easy Tool-ID (Balluff system) consists of a transfer station with integrated write/read head, an evaluation unit, microcontroller and the power supply.

If you wish to complete more complex measurement tasks with your tools, so that a pre-setting device will no longer meet your needs, then one of our multi-sensor measurement devices will be the perfect solution for you.

For more detailed information on the **WMM series** and the **PMS series**, please visit our website at
www.dr-schneider.de

The latest news and information can also be found on our Facebook page.

Interesting product videos and useful information are available on YouTube.

	Creating tools	Selecting tools	Measuring tools	Data transfer/ data input
RFID BIS-C/-M	–	●	–	○
Easy Tool-ID	–	–	–	●
DPM code scanner	–	●	–	–
TDB database/data acquisition	●	●	○	–
3D-Visio	●	●		–
Easy Convert	–	–	–	●

Technical data STP 500

Model	STP 500
Basic frame	HSK63
Quick adjustment	Electromagnetic
Measurement procedure	Camera, image processing
Measurement control	PC measurement electronics
Measurement range: X-axis ø	400 mm
Measurement range: Z-axis ø	500 mm
Interfaces	Opus, others upon request
Dimensions (WxDxH)	860 x 590 x 1060 mm
Total width	1500 mm
Weight	120 kg

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