

## Training SPECHT - Operator – B2 (basic – 5 days; including machine geometry)

- Target group:** The Training is provided for operators of SPECHT machine centers
- Number of Participants:** Maximum **5 participants.**
- Training Period:** The nominal training period of course B2 is 5 days (each maximum 7 hours in day shift). [Deviations require prior consultation.](#)

### Prerequisites:

- Basic knowledges in operating of machining centers
- No or little knowledge of machine control

### Training target:

- Basic knowledges in operating MAG-machining centers
- Operation of the machining center in production mode
- Loading and unloading of tools in tool magazine
- Troubleshooting of simple errors
- 20% of the training is carried out in a class room
- 80% of the training is carried out at the machine

### Training Contents:

- Safety instructions
- Safety equipment of machining center (Emergency Stop, safeta guards, etc.)
- Overview of the machine modules
- Keyboard and controls
- Screen layout, operating ranges Standard and HMI
- Operating modes, functions modes und NC-functions
- Switching Machining centers on / off
- Homing of the machining center
- Operating of the Pallet changer
- Machining center warm-up and warm-keeping
- Start, stop, and resume production
- Tool change in automatic, semi-automatic and jog mode, tool data, tool monitoring tool state and release
- Operating the machine center in setup-mode
  - via HMI-menue
  - in JOG-mode
- Operating the machine center in single mode
  - automatic mode
  - MDA (semi-automatic)
- Diagnostic possibilities
- Alarms, messages, alarm protocol

- Fix errors, delete messages
  - Chain magazine HSK 63
    - Setup axis zero points and transfer positions (*POS\_PREP*)
    - cone cleaner
  - Tool breakage control
- Machine check after collision
  - Check spindle geometry
  - Seat points of the clamping device: "Small geometry"
  - Recognize and correct tensions of the gantry axes