

## Training SPECHT® 600 (SIEMENS 840D sl)

### Mechanical Maintenance – M1 (Repair and Replacement)

**Target group:** The Training is provided for mechanics of SPECHT machine centers

**Number of Participants:** Maximum 5 participants.

**Training Period:** The nominal training period of course M2 is 2 days (each 7 hours).  
Deviations require prior consultation.

**Prerequisites:**

- Completed vocational training as an industrial mechanic
- Additional training as a technician/ engineer
- Knowledge of measuring instruments
- Experience in the detection of wear marks

**Training Target:**

- Safety regulations for maintenance personnel
- Use of suitable auxiliary and measuring equipment (from catalog)
- Diagnosis possibilities, fault and wear detection
- Repairs on axis and spindles
- Machine check after collision

**Training contents:**

- Safety instructions
- Alarms, messages, alarm protocol
- Fixing of errors, cancelling messages
- Repairs on rotary axes
  - Removing / installing bridge
  - Replacement encoder, sealing center pin
  - Replacement of pneumatic clamping
  - Motor exchange (rotor / stator)
  - Adjust commutation angle on motors connected in parallel mode and individually operated
- Repairs at auxiliary axes (magazine)
  - Chain magazine HSK 63
    - Motor exchange at CT1, CT2, CT3, YT1 und ZT3
    - Setup axis zero points and transfer positions (*POS\_PREP*)
    - cone cleaner

- Tool breakage control
- Chain magazine HSK 100
  - Motor exchange CT1, ZT1
  - indexing of chain
  - Motor exchange VT1
  - Setup axis zero points and transfer positions (*POS\_PREP*)
  - cone cleaner
  - Tool breakage control
- Removing and installing of Clamping fixture
  - Adjustment of seat check
- Machine check after collision
  - Check spindle geometry
  - Seat points of the clamping device: "Small geometry"
  - Recognize and correct tensions of the gantry axes