

STÖCKEL

Grinding machines





- Sale and design of grinding machines since 1979
- Manufacturing of granite grinding machines since 1999
- 35 employees
- Based in Herborn, Germany
- Fully air-conditioned production for high-precision machines
 - ~ 30 machines / year





FNX series

- Grinding size from 500 x 200 mm to 800 x 500 mm
- Cast iron base
- Cross table design
- Linear guides and ball screws in Y- and Z-axis
- Sliding guides and belt drive in X-axis



FNL series



- Grinding size from 1000x 500 mm to 2000 x 600 mm
- Cast iron base
- Column type design
- Linear guides and ball screws in Y- and Z-axis
- Sliding guides and belt or hydraulic drive in X-axis



- Surface or profile grinding machine for every task
 - Gantry type machine (granite)
 - Grinding length from 800 – 6000 mm
 - Grinding width from 400 – 1500 mm
 - X-Axis:
 - Slideways
 - Linear Guideways
 - Hydrostatic Guideways
- with
- Belt drive
 - Hydraulic cylinder
 - Ball screw
 - Linear motor
 - Y- and Z-axis with linear guide and ball screw (hydrostatic in Z-axis possible)
 - Grinding spindle conventional or hydrostatic

FD series



- Surface or profile grinding machine for every task
 - Gantry type machine (granite)
 - Grinding length from 800 – 6000 mm
 - Grinding width from 400 – 1500 mm
 - X-Axis:
 - Slideways
 - Linear Guideways
 - Hydrostatic Guideways
- with
- Belt drive
 - Hydraulic cylinder
 - Ball screw
 - Linear motor
 - Y- and Z-axis with linear guide and ball screw (hydrostatic in Z-axis possible)
 - Grinding spindle conventional or hydrostatic



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 - Gantry type machine (granite)
 - Grinding length from 800 – 6000 mm
 - Grinding width from 400 – 1500 mm
 - X-Axis:
 - Slideways
 - Linear Guideways
 - Hydrostatic Guideways
- with
- Belt drive
 - Hydraulic cylinder
 - Ball screw
 - Linear motor
 - Y- and Z-axis with linear guide and ball screw (hydrostatic in Z-axis possible)
 - Grinding spindle conventional or hydrostatic

FLS series

- Surface or profile grinding machine for every task
 - Column design made of granite
 - Grinding length from 800 - 4000 mm
 - Grinding width from 400 - 800 mm
 - X-axis:
 - Slideways
 - Linear guides
 - Hydrostatic guides
- With
- Hydraulic cylinder
 - Ball screw drive
 - Linear motor
- Y- and Z-axis with linear guide and ball screw drive or hydrostatic version available



FSX series



- Profile grinding machine in cross table design
- Fully hydrostatic design in all guides and drives
- Extreme precision: infeed accuracies in the range of 0.0001 mm
- Grinding size from 600 x 300 mm to 800 x 400 mm
- Available with hydrostatic or conventional grinding spindle



- Profile grinding machine in cross table design
- Fully hydrostatic design in all guides and drives
- Extreme precision: infeed accuracies in the range of 0.0001 mm
- Grinding size from 600 x 300 mm to 800 x 400 mm
- Available with hydrostatic or conventional grinding spindle

FR series



- Cast iron based rotary table machine
- Rotary table diameter: 300 - 1200 mm
- Y-axis: linear guide and ball screw drive
- Z-axis: box guide and ball screw drive





- Granite-based rotary table machine
- Rotary table diameter: 600 - 1200 mm
- Y- and Z-axis: linear guide and ball screw drive
- Hydrostatic rotary table with radial and axial run-out accuracies of 0.0002 mm

KSM series



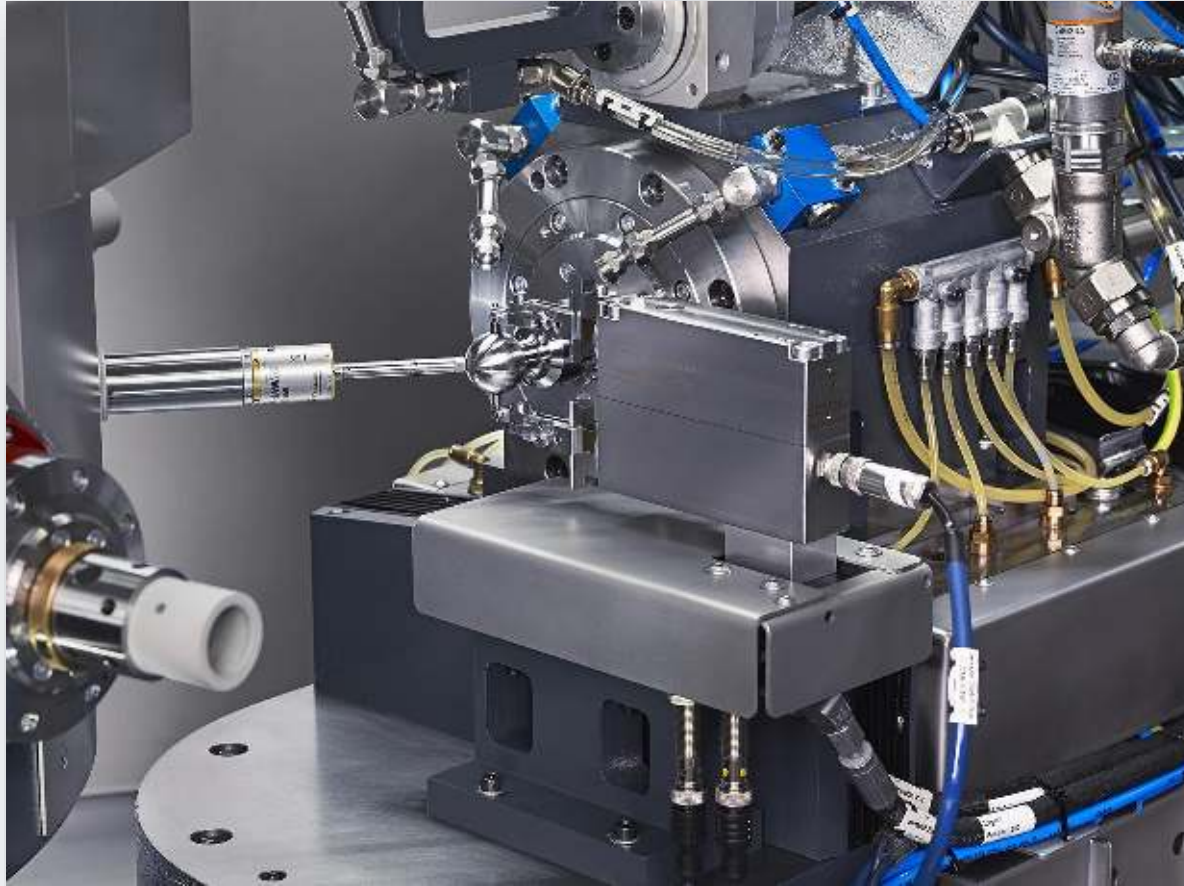
- Special machine for grinding and polishing balls
- Granite base
- 4 tool spindles, 2 rotary axes
- Force-controlled grinding for perfect grinding and polishing results and low tool wear (60 times lower than competitor)
- Integrated probe and measuring caliper

KSM series



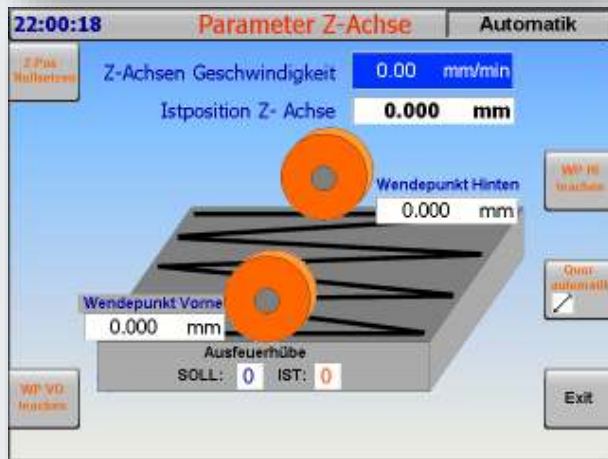
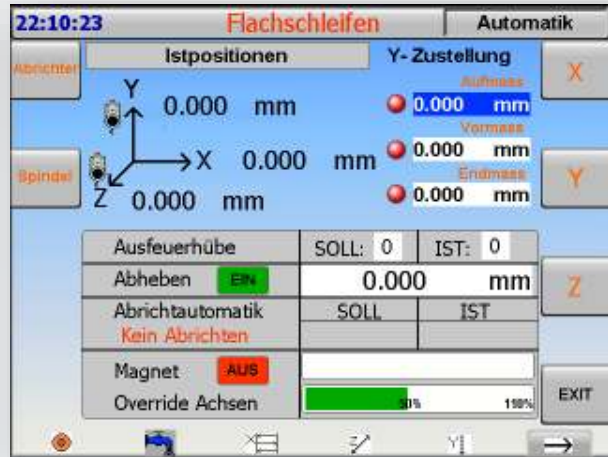
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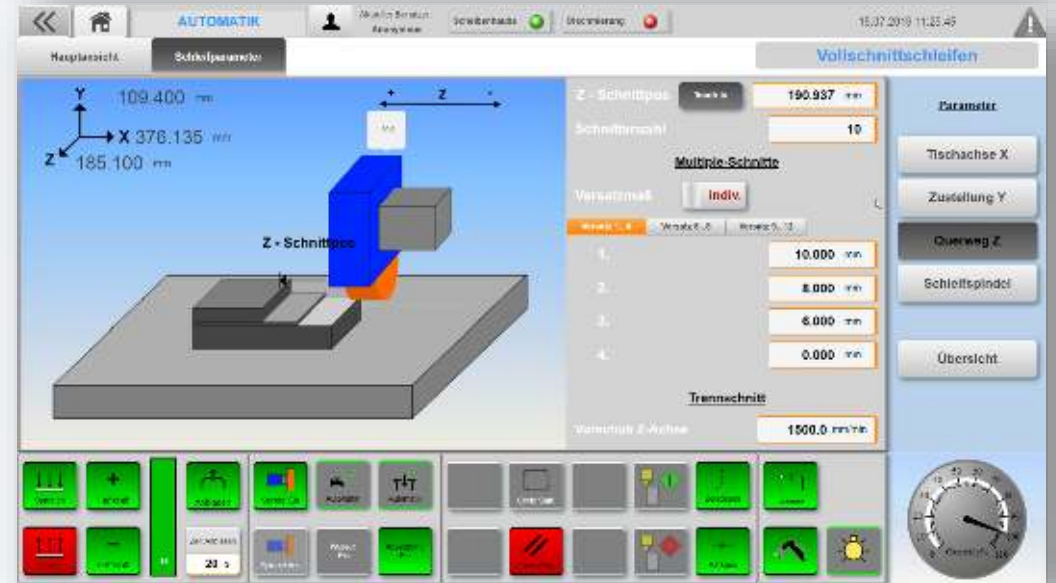
ST-2 control



- Control for simple surface and plunge grinding
- Semi-automatic grinding

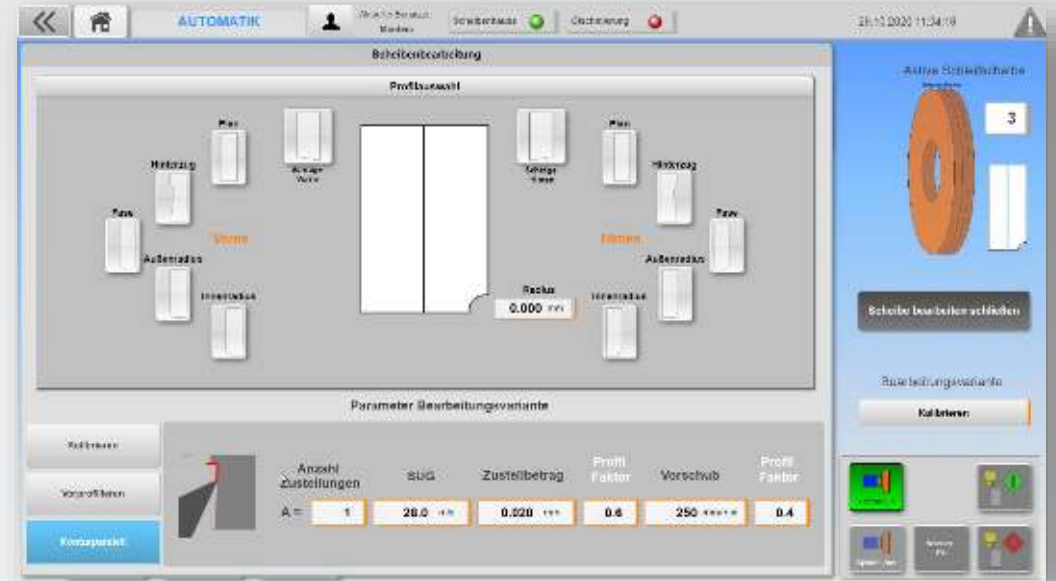
NC-T control

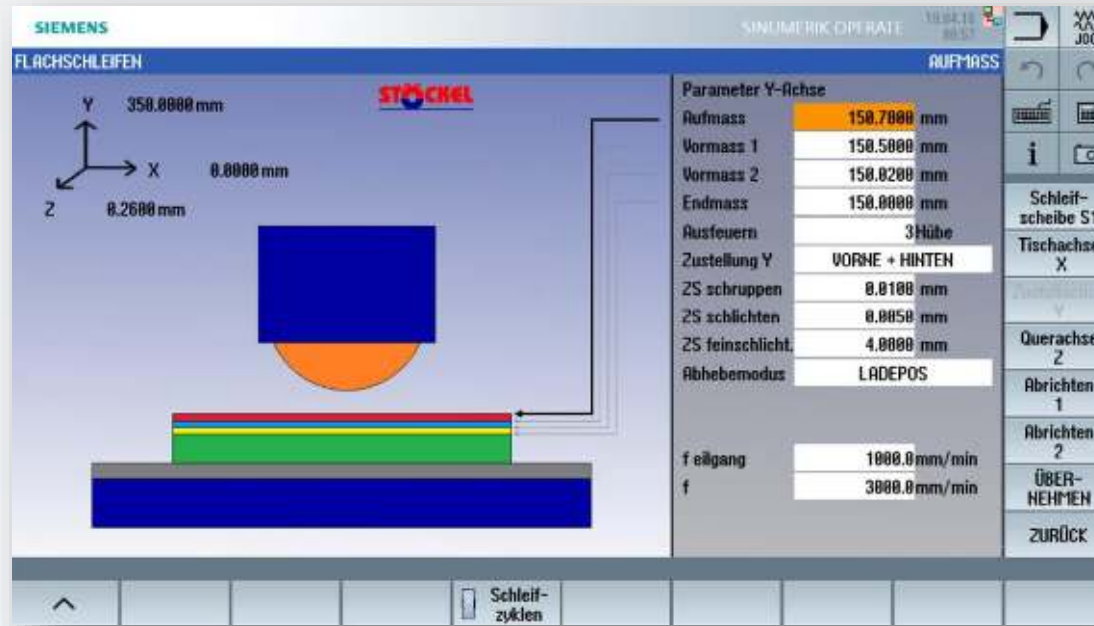
- Control for surface and profile grinding
- Grinding wheel magazine
- Contour software for simple profiles
- WinWOP for complex profiles
- Linking of grinding cycles
- Integration of sensors (e.g. acoustic sensor, balancing, etc.)
- B&R-basis



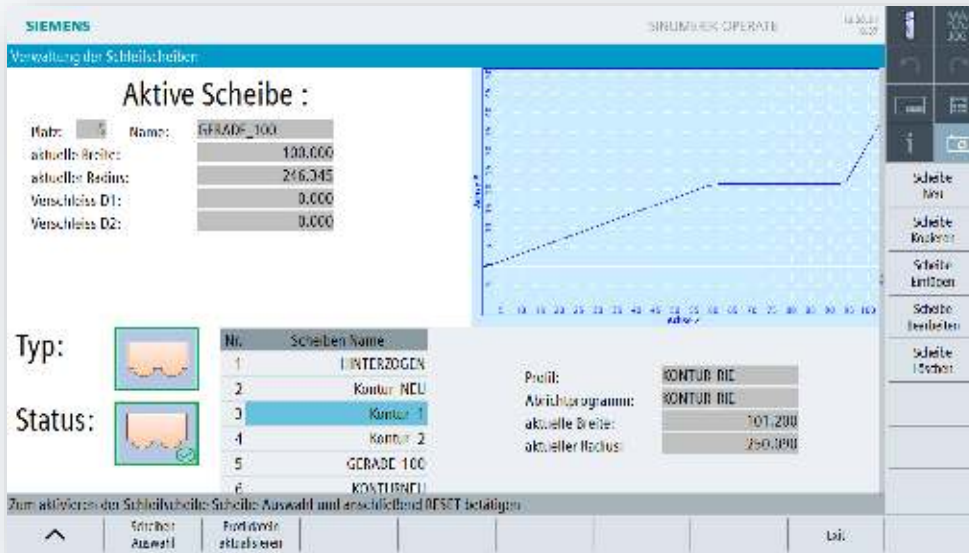
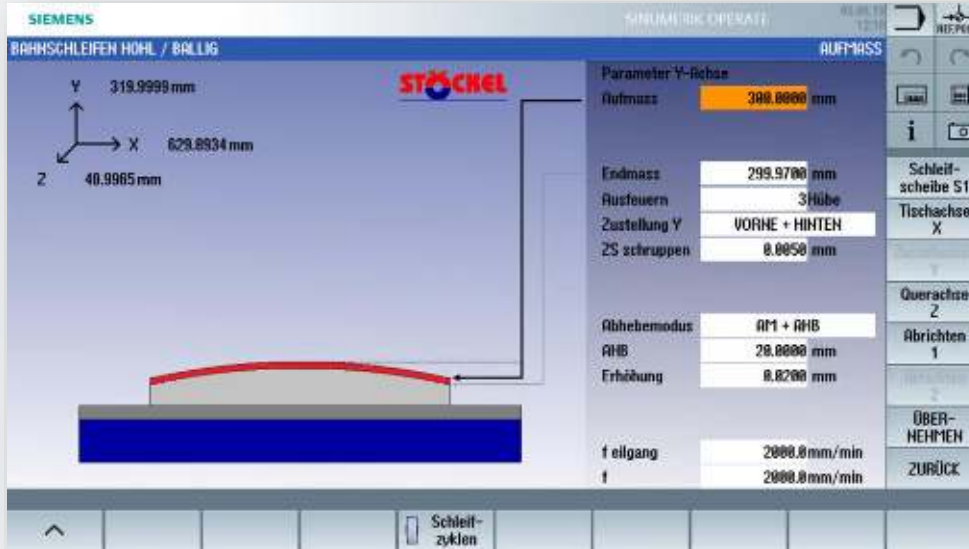
NC-T control

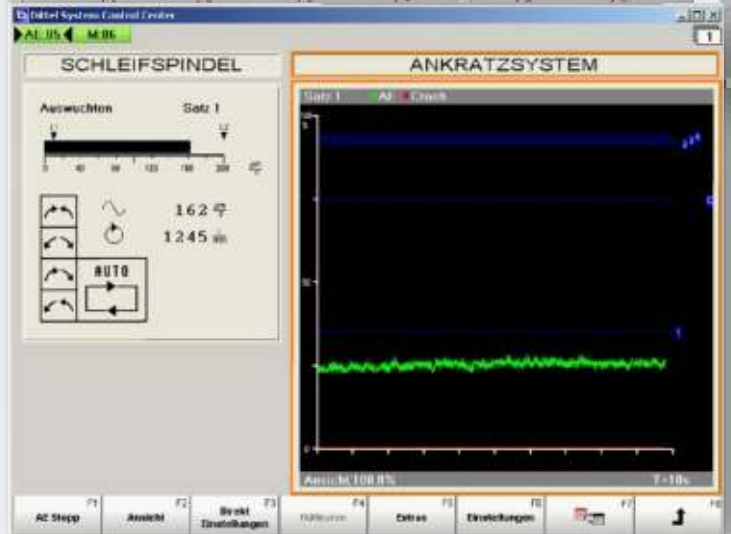
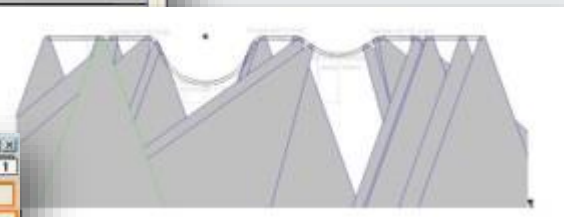
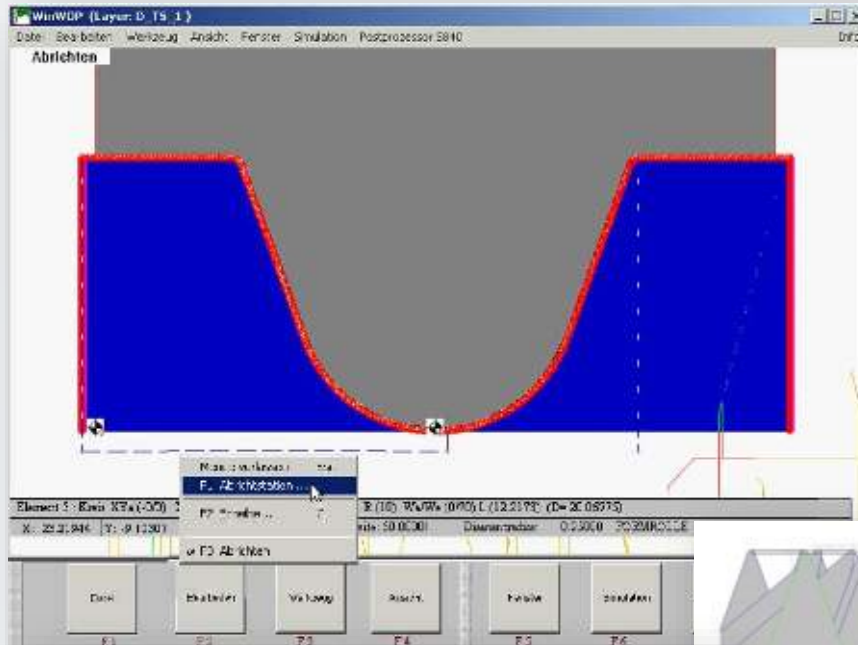
- Control for surface and profile grinding
- Grinding wheel magazine
- Contour software for simple profiles
- WinWOP for complex profiles
- Linking of grinding cycles
- Integration of sensors (e.g. acoustic sensor, balancing, etc.)
- B&R-basis





- Control for surface and profile grinding and for complex processes
- Grinding wheel magazine
- WinWOP for complex profiles
- Linking of grinding cycles
- Integration of sensors, probes and additional axes
- Siemens-basis





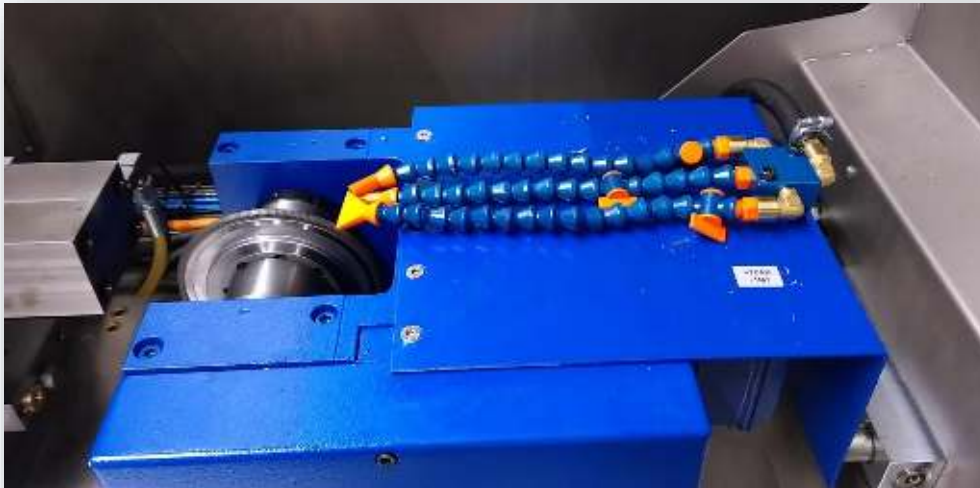


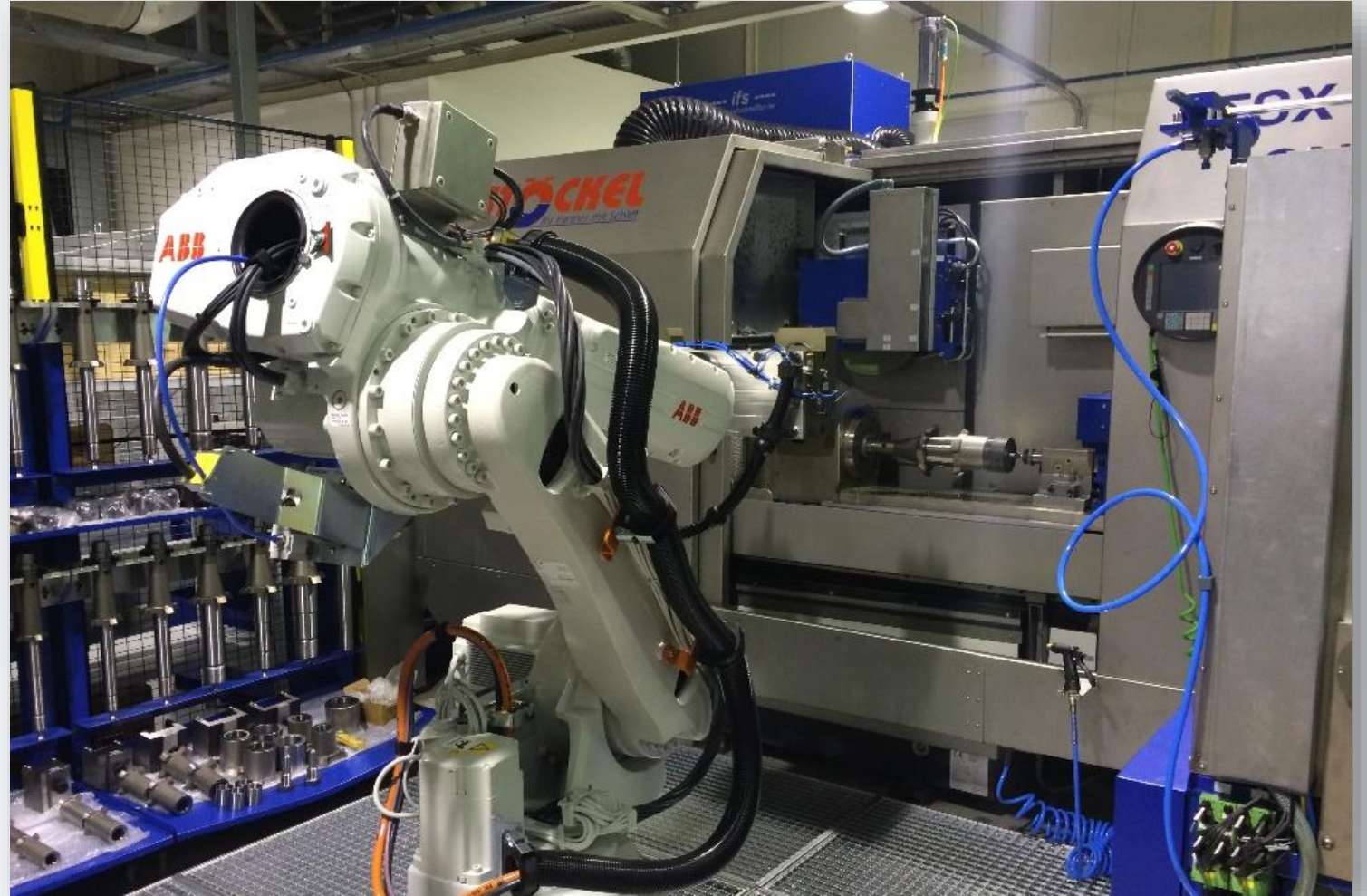
- (Gantry-) Design based on granite
- High rigidity of the overall system
- Very good damping properties
- High temperature stability and low heat conduction
- Almost stress-free material
- Precise to machine

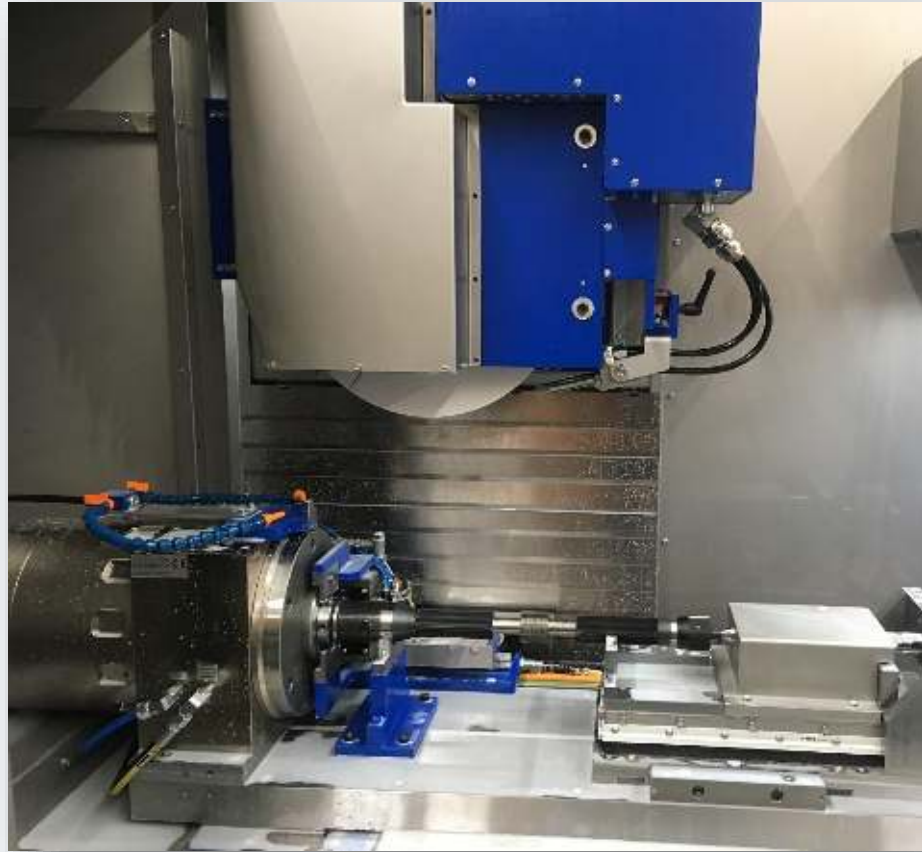


Technology

Dressing









- Wide range of extraction, cooling and coolant filtration systems available
- Integration of central systems possible at any time





STÖCKEL
Ihr Partner mit Schliif
FD 6080 CNC

STÖCKEL
Grinding machines

