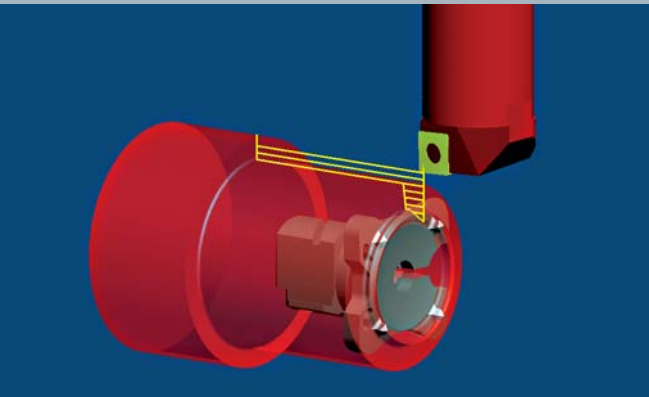


Mill turning of a spine implant on a Chiron FZ 12K S

hyperMILL® provides turning, 2D, 3D, HSC and 5AXIS milling strategies within one single user interface. This means that all the turning and milling steps of a machining job can be programmed in the same CAM software. The millTURN module is integrated seamlessly so that stock tracking, collision avoidance and the tool database are available for all job steps. This ensures quick and easy programming as well as superb process safety.

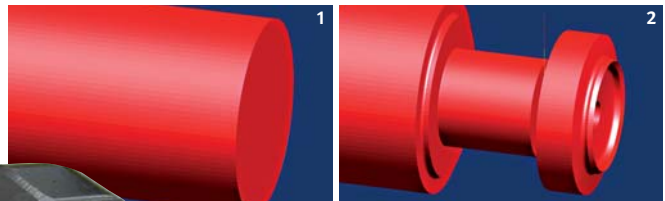
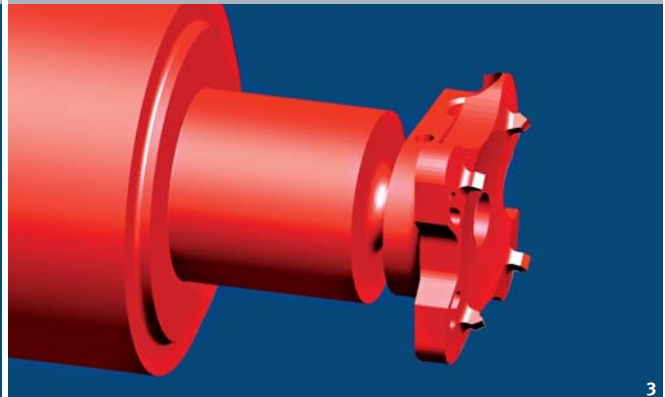
Turn roughing

All slanting structures are included in the straight roughing cycle. Add-on functions such as tool angle definition, stock trimming and path compensation are available for adapting the machining job to specific requirements.



Stock tracking

After each turning or milling step, the remaining stock is calculated. Thanks to precise machining status feedback for the stock, milling only proceeds in areas where rest material is detected.



- Machine:** FZ 12K S with lathe spindle
- Traverse paths X/Y/Z:** 550 / 320 / 360 mm
- Acceleration X/Y/Z:** 1/1,2/1,5 g
- Rapid travel X/Y/Z:** 75 m/min
- Tilt head range:** -10° to +100° / 0-90° in 0,5 s
- Motor spindle RPM up to:** 24,000 min⁻¹
- Tool holder:** HSK-A 50
- Milling output in St 60:** 120 cm³/min
- Drilling output in St 60:** 25 mm
- Thread cutting:** M 20
- Lathe spindle RPM:** 4,500 min⁻¹
- Lathe spindle:**
- Rod opening:** locking clamp max. Ø 65 mm
- Chain magazine:**
- Tool slots:** 24 / 48 / 64 / 161 / 240
- Tool change time:** 0,9 s
- Chip-to-chip time:** 1,9 s

Material: Titanium



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