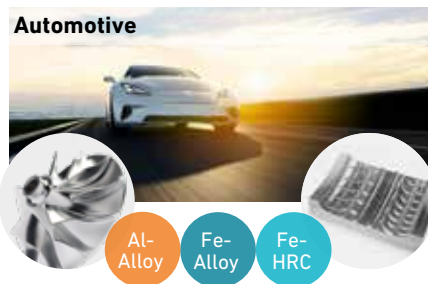


Step-Tec

HVC/HPC 150

milling and grinding spindle platform



We care about your challenge...

Inox

- Thermal stability inspite of high speed machining
- Part integrity despite of high material chip force
- Contamination by process

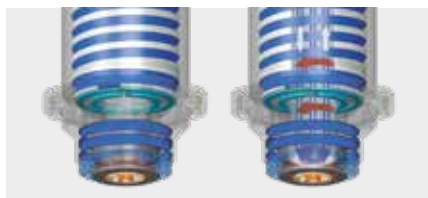
Fe-Alloy Fe-HRC

- Cost-efficient roughing and finishing
- Thermal stability inspite of high speed machining
- Reliable tool path despite of machining efforts

Al-Alloy

- Cost efficient roughing
- Fast and repeatable finishing
- Reliable precision inspite of dynamic machining

... and provide you the right solution



Reliable and repeatable machining processes due to polar temperature stability of $\Delta T = 1$ K. Whatever the required performance, our spindles stabilizes fast, reliably and with repeatable accuracy thanks to our patented Cool-Core technology and Opticool-System.

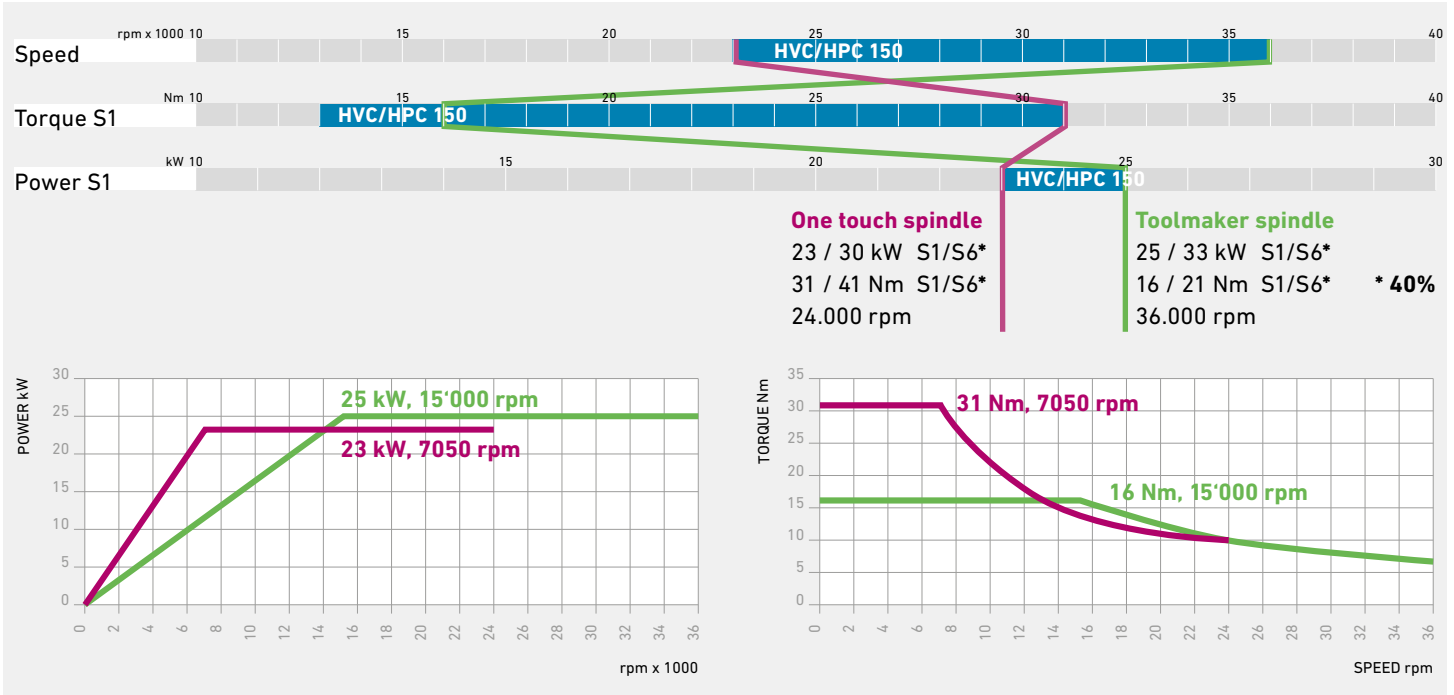


You will achieve surface quality down to $R_a = 0.03 \mu m$ regardless of the rpm's, thanks to the extreme of our shaft roundness. Our in-house manufacturing secures the highest serial repeatability.



Grinding or Milling, achieve the most perfect finish thanks to minimal runout and our stiff bearing arrangement backed with P2-quality bearings.

Step-Tec HVC/HPC 150



Monitoring options:

- Compensation
- Spindle status (T °C, \vec{a})
- Spindle Monitoring Software
- Spindle Diagnostic Software



Technical specifications:

- Acceleration to n_{max} within 1.2s
- Lubrication: oil-air
- Weight: 41-49kg
- Shaft cooling CoolCore (option)
- Optional AE sensor
- Process control via Profinet / Profibus
- HSK-A/F63, HSK-E50
- Through spindle coolant O, H₂O, oil
- Encoder 1 Vpp Incr. 230

• Platform-based specific solution upon your requirements

Customer Services



SEP Spindle Exchange Program

Highest availability and lowest capital commitment through factory-overhauled exchange spindle delivered within 24h in Europe (48h worldwide).



SFR Spindle Factory Repair

Cost-optimized repair with excellent quality, original parts and manufacturer warranty.



SOM Spindle Onsite Maintenance

Commissioning support, diagnosis, troubleshooting and exchange of wear parts.