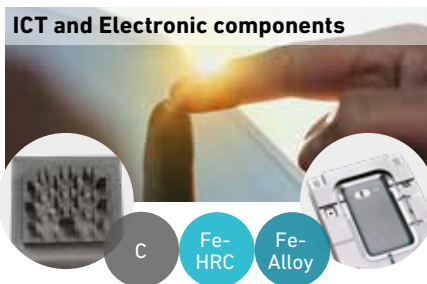


Step-Tec

HVC 140

milling and grinding spindle platform

ICT and Electronic components



C Fe-HRC Fe-Alloy

Medtech



CoCr Ceramic Inox

Packaging



Fe-HRC Fe-Alloy Al-Alloy

We care about your challenge...



- Part cleanliness
- Cost-efficient production
- Thermal stability with effects on downstream processes (EDM)



- Cost-efficient roughing and finishing (Fe-Alloy/HRC)
- Thermal stability inspite of high speed machining
- Reliable tool path despite of machining efforts
- Contamination by process (Inox)



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

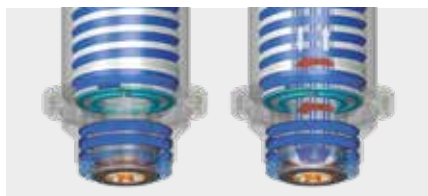


- Repeatable short-cycle/high-frequency process
- Part integrity and precision despite of hard/tough material
- Tool-cost influence on process definition



- Part cleanliness
- Part and process integrity despite of tough material
- Tool-cost influence on process definition

... 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.

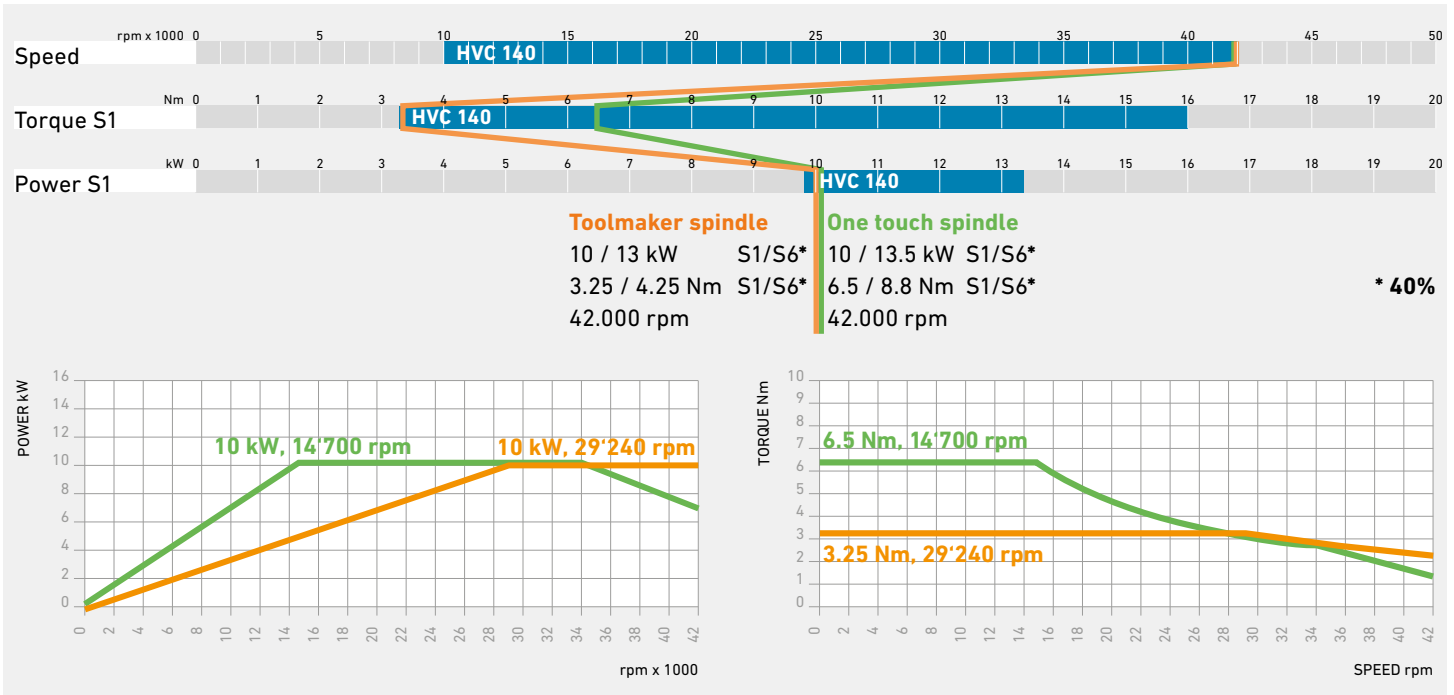


Speed-up part approval and maintain compliance as well as process safety thanks to our unique continuous process monitoring via acceleration sensor.



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 140



Monitoring options:

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



Technical specifications:

- Acceleration to n_{max} within 2.5s
- Lubrication: oil-air, grease
- Encoder 1Vpp Incr. 128
- Weight: 34-36kg
- Shaft cooling CoolCore (option)
- Process control via Profinet/Profibus
- HSK-A/C/E40, HSK-C50
- Through spindle cooling O, H₂O, CO₂, oil

• 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.