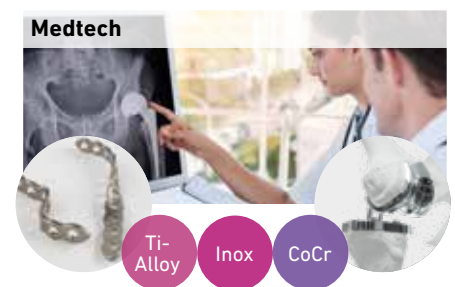
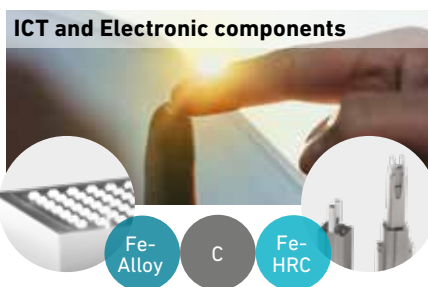


Step-Tec

HVC 120

milling and grinding spindle platform



We care about your challenge...



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



- Chip recycling
- Luxury precision and finishing
- Repeatable short-cycle/high-frequency process



- 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)

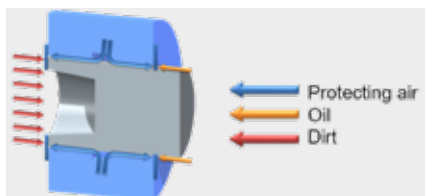


- Repeatable short-cycle/high-frequency process
- Part integrity and precision despite of hard/tough material
- Tool-cost influence on process definition



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

... and provide you the right solution



Broaden your range of application. Machine dirt- or oil sensitive material like composite without risk thanks to our Twin Air Sealing System (TAS).

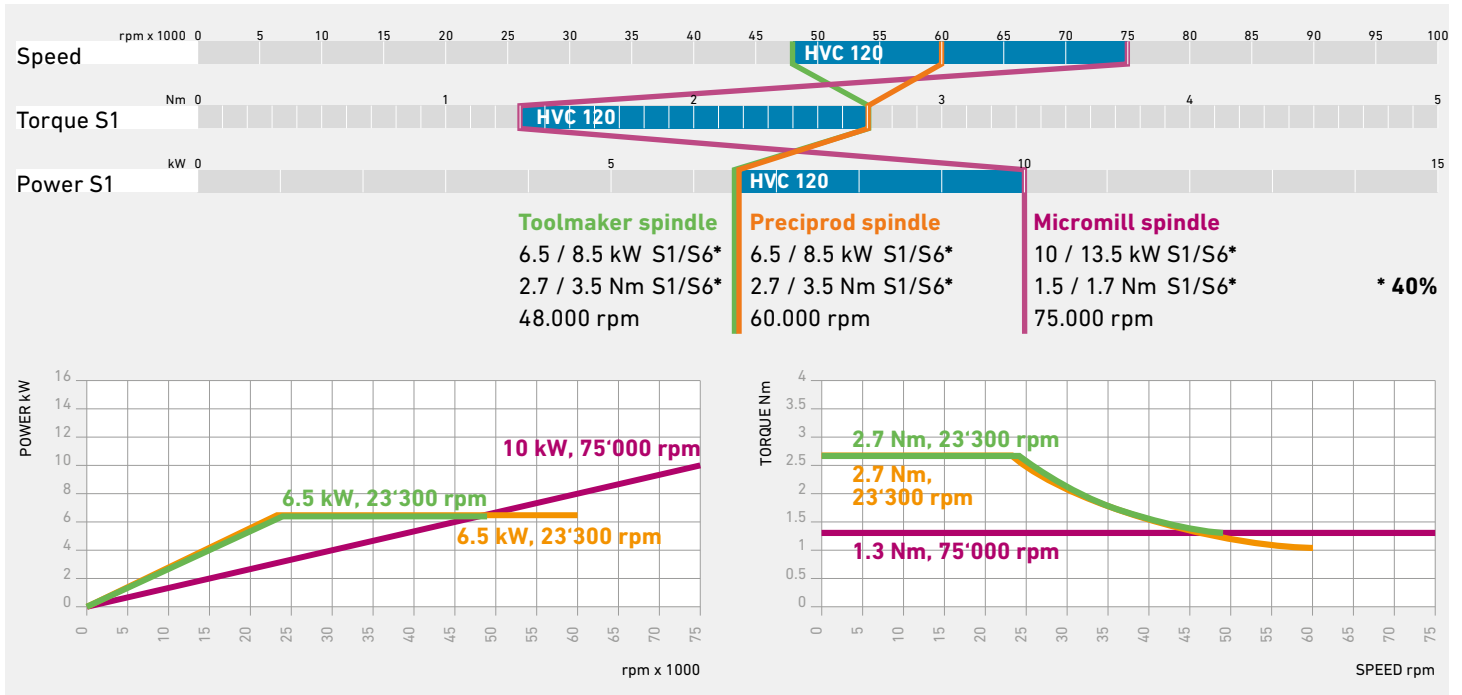


You will achieve surface quality down to $R_a = 0.03 \mu\text{m}$ regardless of the rpm's, thanks to the extreme of our shaft roundness. Our in-house manufacturing secures the highest serial repeatability.



Business development opportunities at reduced cost of integration with a platform range from 279 to 512 Nm (S1).

Step-Tec HVC 120



Monitoring options:

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



Technical specifications:

- Acceleration to n_{max} within 2s
- Lubrication: oil-air
- Encoder 1Vpp Incr. 128
- Weight: ~22kg
- Process control via Profinet/Profibus
- HSK-E32
- Through spindle cooling O, H₂O, 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.

GF Machining Solutions AG

Step-Tec

Roger-Federer-Allee 7

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