

Step-Tec

HPC 290

milling and mill-turning spindle platform

Machinery and general mechanics

Al-Alloy Fe-Alloy Fe_xC

Aerospace

Ti-Alloy Composite Al-Alloy

Transportation

Al-Alloy Fe-HRC Fe_xC

We care about your challenge...

- Fe-Alloy Fe_xC Al-Alloy
- Cost efficient single-touch machining
 - Reliable productivity over long machining period
 - Stable precision inspite of dynamic machining

- Fe-HRC
- Thermal stability inspite of relative high speed machining
 - Reliable tool path despite of machining efforts

- Com-posite
- Spindle/part contamination by process
 - Thermal stability inspite of high power machining
 - Process compliance despite of tough material

- Ni-/Ti-Alloy
- Critical downtime due to high fix costs
 - Process compliance despite of hard/tough material
 - Thermal stability inspite of high power machining

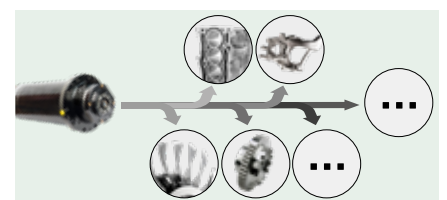
... and provide you the right solution



Maximize production uptime through spindle integrity monitoring with our embedded acceleration and temperature sensors. Access to your data on the machine by our monitoring system (SMS) and offline by our diagnose system (SDS).

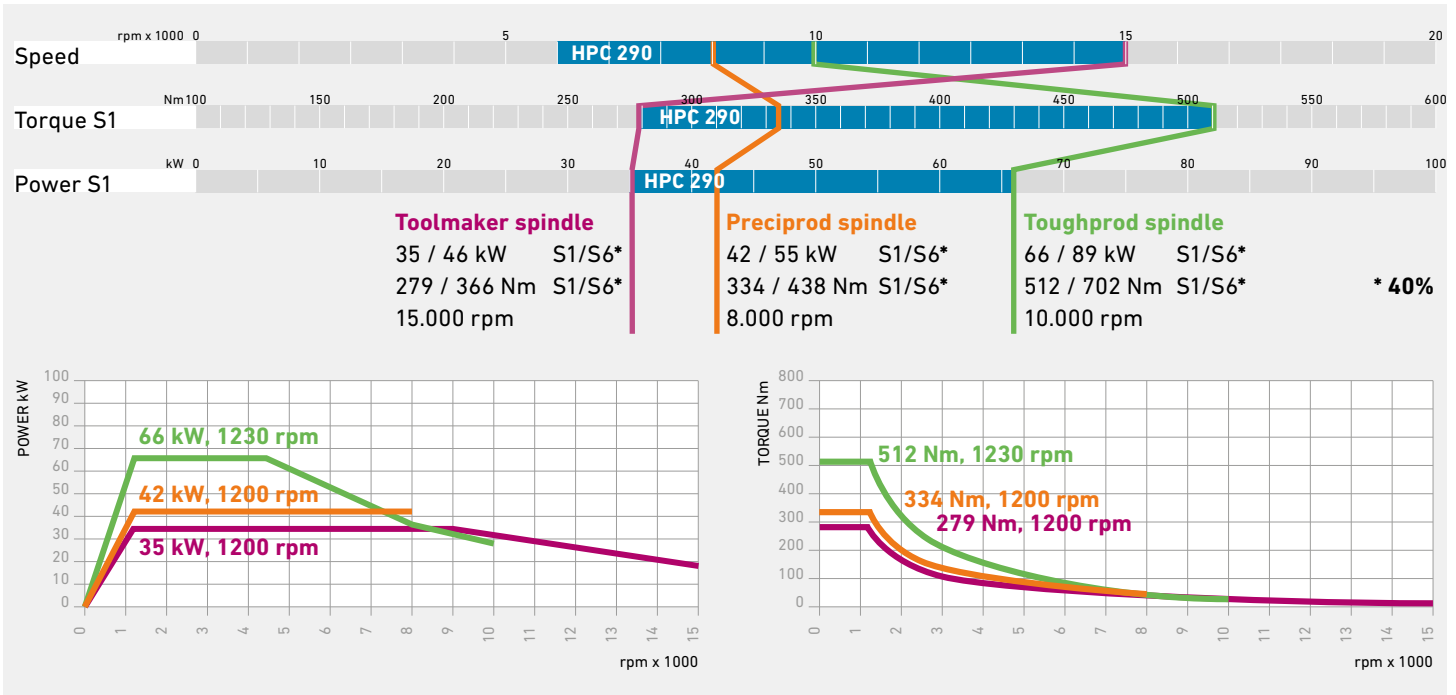


Generate high and precision throughput, thanks to the opportunity to mill and turn parts in one clamping with our spindle shaft interlock option.



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

Step-Tec HPC 290



Monitoring options:

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



Technical specifications:

- Acceleration to n_{max} within 2s (0-8.000 rpm)
- Lubrication: oil-air, grease
- Encoder 1Vpp Incr. 256/407
- Weight: 230-235 kg
- Shaft cooling CoolCore (option)
- Optional spindle shaft interlock (SSL) 800Nm
- Process control via Profinet/Profibus
- HSK-A/T100, ISO-AD50
- 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

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