

Step-Tec

HPC 190

milling, mill-turning and grinding spindle platform

Aerospace

Ni-/Ti-Alloy Composite Al-Alloy

Automotive

Al-Alloy Fe-HRC Fe-Alloy

Machinery and general mechanics

Fe-Alloy Al-Alloy Inox

We care about your challenge...



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



- Thermal stability inspite of relative high speed machining
- Reliable tool path despite of machining efforts (Fe-HRC)
- Repeatable short-cycle/high-frequency process (Inox)
- Cost efficient single-touch machining (Inox)



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



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

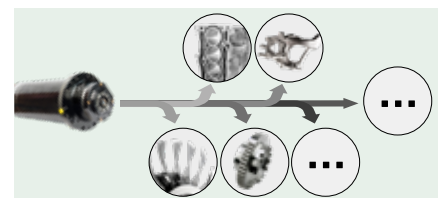
... and provide you the right solution



Maximized availability whatever happens thanks to our 24h Exchange Spindle Program with full OEM warranty.

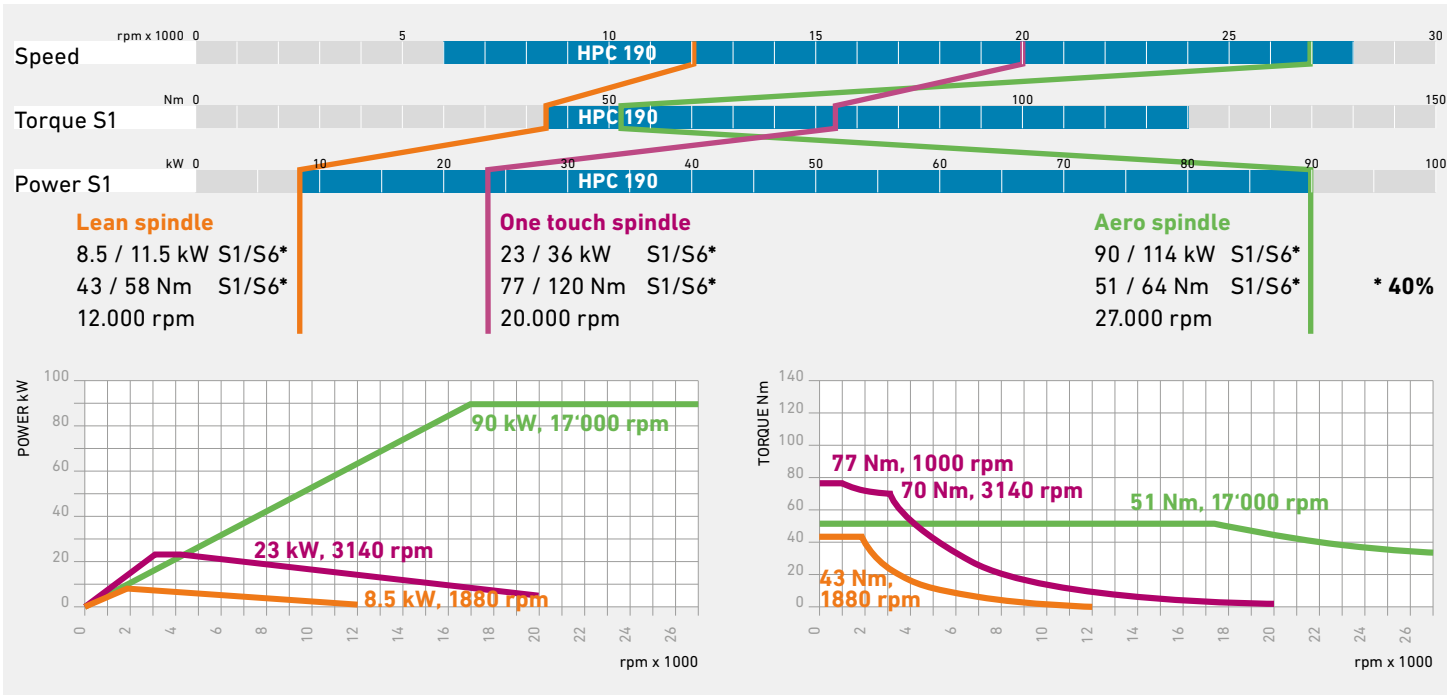


Speed-up part approval and maintain compliance as well as process safety thanks to our unique continuous process monitoring via acceleration sensor.



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

Step-Tec HPC 190



Monitoring options:

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



Technical specifications:

- Acceleration to n_{max} within 2.0s
- Lubrication: oil-air / grease
- Encoder 1Vpp Incr. 256
- Weight 89-93 kg
- Process control via Profinet / Profibus
- Shaft cooling CoolCore (option)
- Optional AE sensor
- Interface: HSK-A/T63, ISO-B40 and more
- Optional spindle shaft interlock (SSL) 500Nm
- Through spindle coolant 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.

GF Machining Solutions AG

Step-Tec

Roger-Federer-Allee 7

2504 Biel / Switzerland

www.step-tec.com