Step-Tec

HPC 190
milling, mill-turning and grinding spindle platform

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    Always a step ahead
Step-Tec HPC 190

Lean spindle
- Speed: 8.5 / 11.5 kW S1/S6*
- Torque: 43 / 58 Nm S1/S6*
- RPM: 12,000 rpm

One touch spindle
- Speed: 23 / 36 kW S1/S6*
- Torque: 77 / 120 Nm S1/S6*
- RPM: 20,000 rpm

Aero spindle
- Speed: 90 / 114 kW S1/S6*
- Torque: 51 / 64 Nm S1/S6*
- RPM: 27,000 rpm

Technical specifications:
- Acceleration to $n_{\text{max}}$ 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, H$_2$O, CO$_2$, oil

Monitoring options:
- Compensation
- Spindle status ($T \, ^{\circ}C, \, \varphi$)
- Spindle Monitoring Software
- Spindle Diagnostic Software

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.

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