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)
- 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 ΔT = 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    Always a step ahead
GF Machining Solutions

Step-Tec HVC 140

Technical specifications:
- Acceleration to $n_{\text{max}}$ 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, H$_2$O, CO$_2$, oil
- Platform-based specific solution upon your requirements

Monitoring options:
- Compensation
- Spindle status ($T \degree C, \theta$)
- 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.

GF Machining Solutions AG
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