GF Machining Solutions

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 \( R_a = 0.03 \mu m \) 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  Always a step ahead
Step-Tec HVC 120

**Technical specifications:**
- Acceleration to $n_{\text{max}}$ within 2s
- Lubrication: oil-air
- Encoder 1Vpp Incr. 128
- Weight: ~22kg
- Process control via Profinet/Profibus
- HSK-E32
- Through spindle cooling O, H$_2$O, oil

**Monitoring options:**
- Compensation
- Spindle status (T °C, $\vec{f}$)
- 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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