GF Machining Solutions

Step-Tec

HVC/HPC 150
milling and grinding spindle platform

We care about your challenge...

Inox
• Thermal stability inspite of high speed machining
• Part integrity despite of high material chip force
• Contamination by process

Fe-Alloy Fe-HRC
• Cost-efficient roughing and finishing
• Thermal stability inspite of high speed machining
• Reliable tool path despite of machining efforts

Al-Alloy
• Cost efficient roughing
• Fast and repeatable finishing
• Reliable precision inspite of dynamic machining

... and provide you the right solution

Reliable and repeatable machining processes due to polar temperature stability of $\Delta T = 1 \text{ K}$. Whatever the required performance, our spindles stabilizes fast, reliably and with repeatable accuracy thanks to our patented Cool-Core technology and Opticool-System.

Inox

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.

Al-Alloy

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
**Step-Tec HVC/HPC 150**

- **Speed**: 15, 20, 25, 30, 35, 40 rpm
- **Torque S1**: 15, 20, 25, 30, 35 Nm
- **Power S1**: 10, 15, 20, 25, 30 kW

**Monitoring options:**
- Compensation
- Spindle status (T °C, J)
- Spindle Monitoring Software
- Spindle Diagnostic Software

**Technical specifications:**
- Acceleration to \( n_{\max} \) within 1.2s
- Lubrication: oil-air
- Weight: 41-49kg
- Shaft cooling CoolCore (option)
- Optional AE sensor
- Process control via Profinet / Profibus
- HSK-A/F63, HSK-E50
- Through spindle coolant O, H2O, oil
- Encoder 1 Vpp Incr. 230

- 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**
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