Spindles for high speed

HF series of inserts

Upto 25,000 rpm (mechanical speed)

Compact roller bearing at neck
- Small wharve dia (18.5 mm)
- Minimum clearance
- Saves power

Steel bolster
- No chance of cracking of bolster
- No blow holes ensures spindle remains lubricated
- Quick heat dissipation extends relubrication cycle

German oil spool
- Dampens vibrations
- Facilitates uniform and continuous lubrication

Floating footstep with conical design
- Minimum point contact of spindle blade tip with footstep bearing
- Extremely low co-efficient of friction
- Ensures continuous alignment of spindle top part axis with spindle insert axis

Axial/buffer spring
- Absorbs axial load and protects spindle blade tip

10 million spindles in operation across the globe