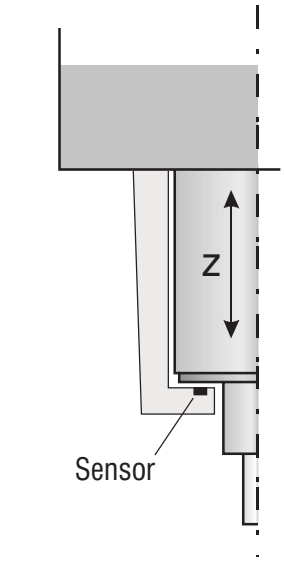
MICRO-EPSILON

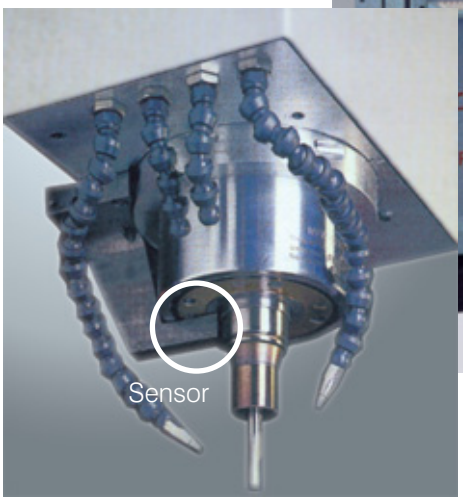
Compensation of the thermal extension

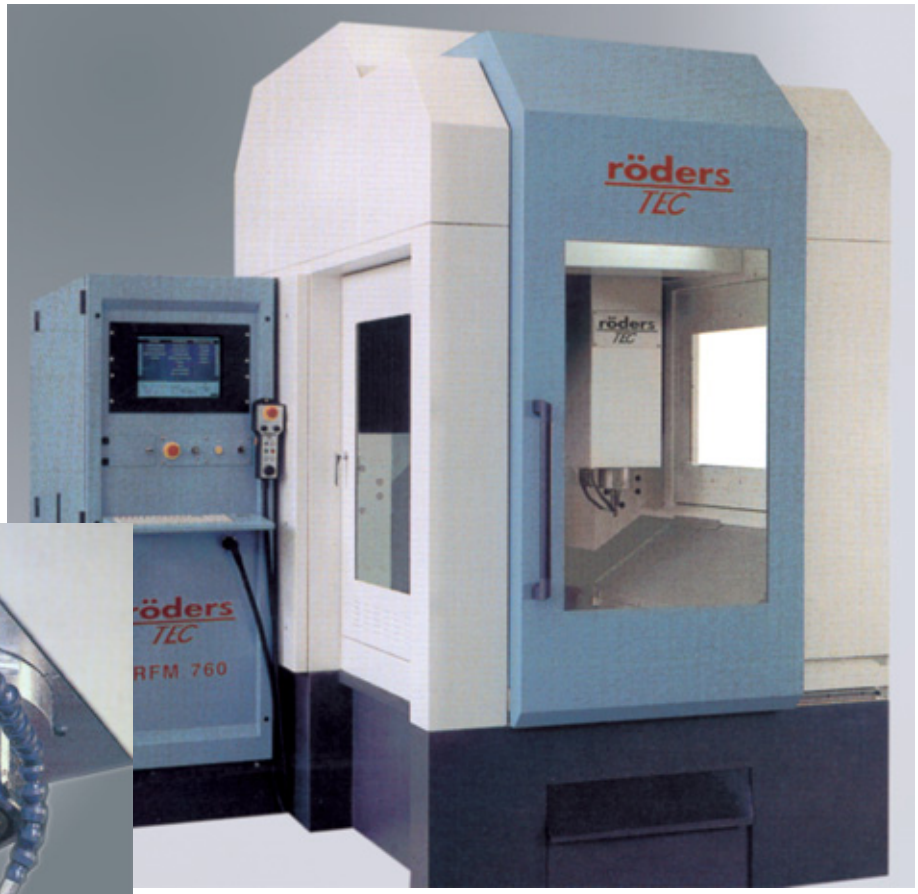
Fluctuations of temperature lead to thermal extension and therefore too erroneous in the milling process. A highly precise, non contact displacement sensor of MICRO-EPSILON measure this shift of the spindle. With the information from the sensor the CNC-control unit can do a active compensation of the axial extension. The accuracy of the milling process can be improved much more like with a temperature sensor.

Reasons for choosing the system

- Miniature sensor
- Non-contact and wear free
- Sensor-change possible
- Very high temperature stability ±0.1 µm/°C
- Very high resolution <1 µm







Pic: röders TEC www.roederstec.com