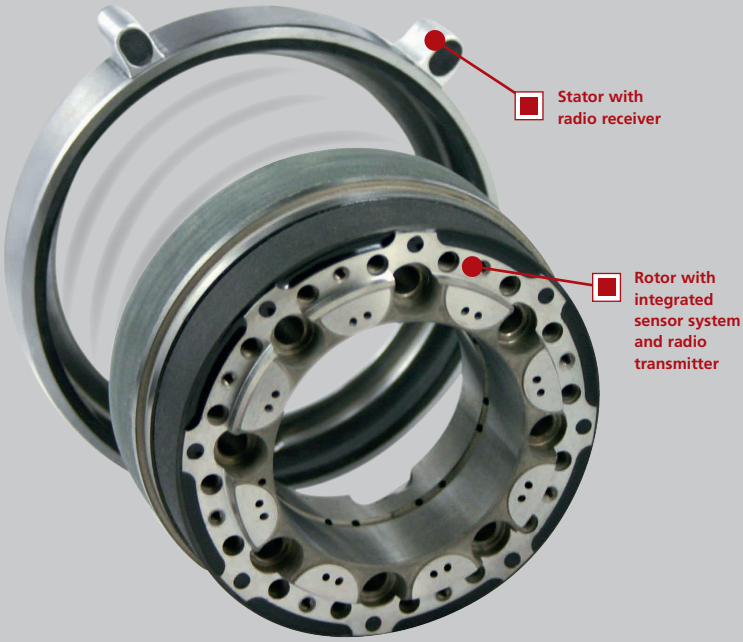
GROB CHIP-IN-SPINDLE DETECTION SYSTEM (SiS)

GROB OFFERS A SOLUTION.



Functionality

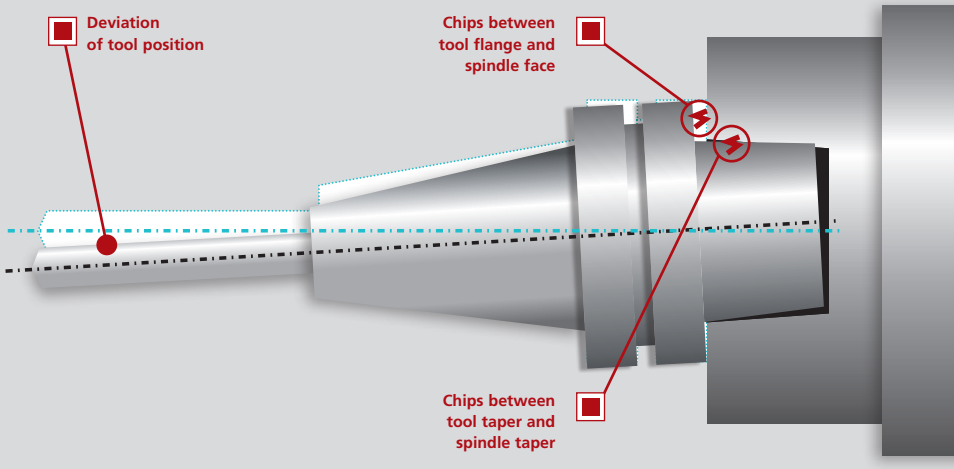
- The system detects the stress distribution in the spindle nose
- Chips between tool and spindle can be detected by analyzing the stress distribution

THE GROB CHIP-IN-SPINDLE DETECTION SYSTEM (SiS) ...

- used for automatic monitoring of the tool clamping.
- will stop the machine when defined limits are exceeded.

Do you have problems with tool clamping faults because of chip in spindle?

Do you need a safe chip detection system for microchips larger than 10 µm?



GROB CHIP-IN-SPINDLE DETECTION SYSTEM (SiS)

PERFORMANCE TESTS OF THE GROB CHIP-IN-SPINDLE DETECTION SYSTEM (SiS) SHOW:

▶ Fault detection at the tool taper

▶ Fault detection at the tool flange

▶ Detection without noticeable problems

MEASURING DURING SPINDLE STANDSTILL

- After the tool change
- Detection of chip before spindle start
- No influence on the cycle time

DETECTION OF EVERY CHIP

- At the tool flange
- At the tool taper

⇨ All faces are monitored

EASY INTEGRATION

- No change of existing area interference
- No spare parts necessary
- No batteries

Your advantages

- **Avoiding defective parts and run-out discrepancies**
- **Eliminating damages as a result of machining errors by using the GROB Chip-in-Spindle Detection System**
- **Optimizing the machining process**
- **Protection of tool and machine**
- **Increasing the process stability**

GROB-WERKE GmbH & Co. KG | Mindelheim, GERMANY
Phone: +49 8261 996-0 | Fax: +49 8261 996-268 | Mail: info@de.grobgroup.com

www.grobgroup.com