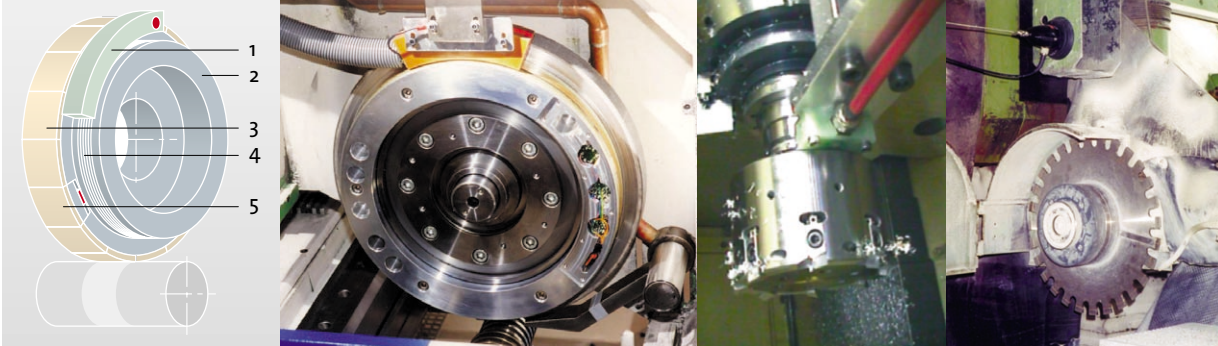


Intelligent Machine Tools

- 1 Stator Coil
- 2 Telemetry Carrier
- 3 Abrasives
- 4 Rotor Coil
- 5 Sensing Segment

Measurement of torque, tri-axial force and vibration in grinding process



Tri-axial vibration measurement in milling head

Temperature measurement on the blade of a stone saw



4-way drill head with integrated torque measurement to monitor the tapping process

Turnkey telemetry systems for measurement and wireless transmission of physical parameters on rotating tools and tool machine components e.g.:

- Monitoring of important process parameters in-situ (eg. force, torque, vibration, temperature)
- In-process registration of measured data for process control and machine control
- Monitoring of tool wear and manufacturing quality
- Development of intelligent tools
- Integration of microsensors and telemetry into tools
- Wireless data and energy transmission
- Suitable for use in applications with extreme operating conditions

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