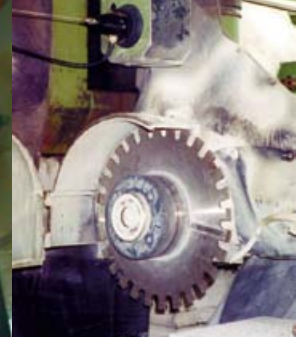
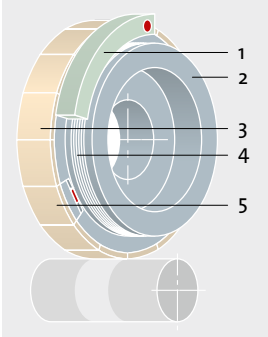


# Intelligent Machine Tools

- 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

[www.datatel-telemetry.de](http://www.datatel-telemetry.de)



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