

Mobile Machine Diagnostics

Processing Quality

**Process and
Cutting Data Optimization**

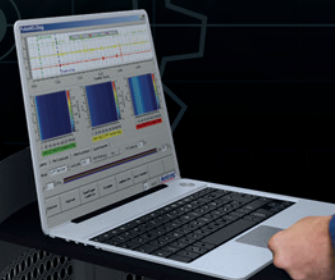
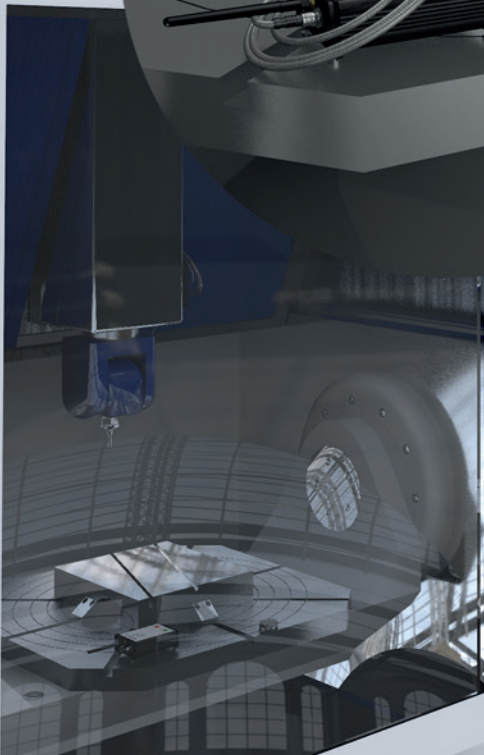
Wear

of Machine Components

Unbalance

of Tool or Spindle

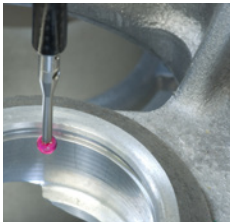
... Mobile Measurement!



Better be safe. Safely be better.

Mobile Diagnosing Tool WiFi BoxNG

■ Do you know these problems: Processing quality, machine anomalies?



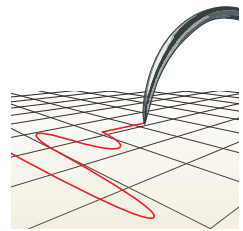
Chatter marks



Dimensional accuracy

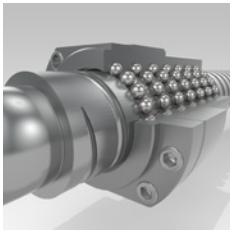


Noises

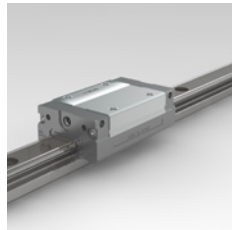


Vibrations

■ Possible causes: Defects, wear, damages, assembly errors?



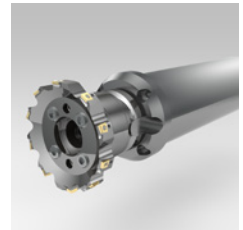
Ball screw



Linear guide



Bearing



Unbalance

■ Our WiFi BoxNG will assist you to identify these problems!



Wireless data transfer

- Measurement even possible within closed machining room



Mobile application

- Location independent operation



Assist with preventive maintenance

- Problem detection at an early stage

■ Assembly Examples

WiFi BoxNG can be simply assembled and disassembled through magnet screws.



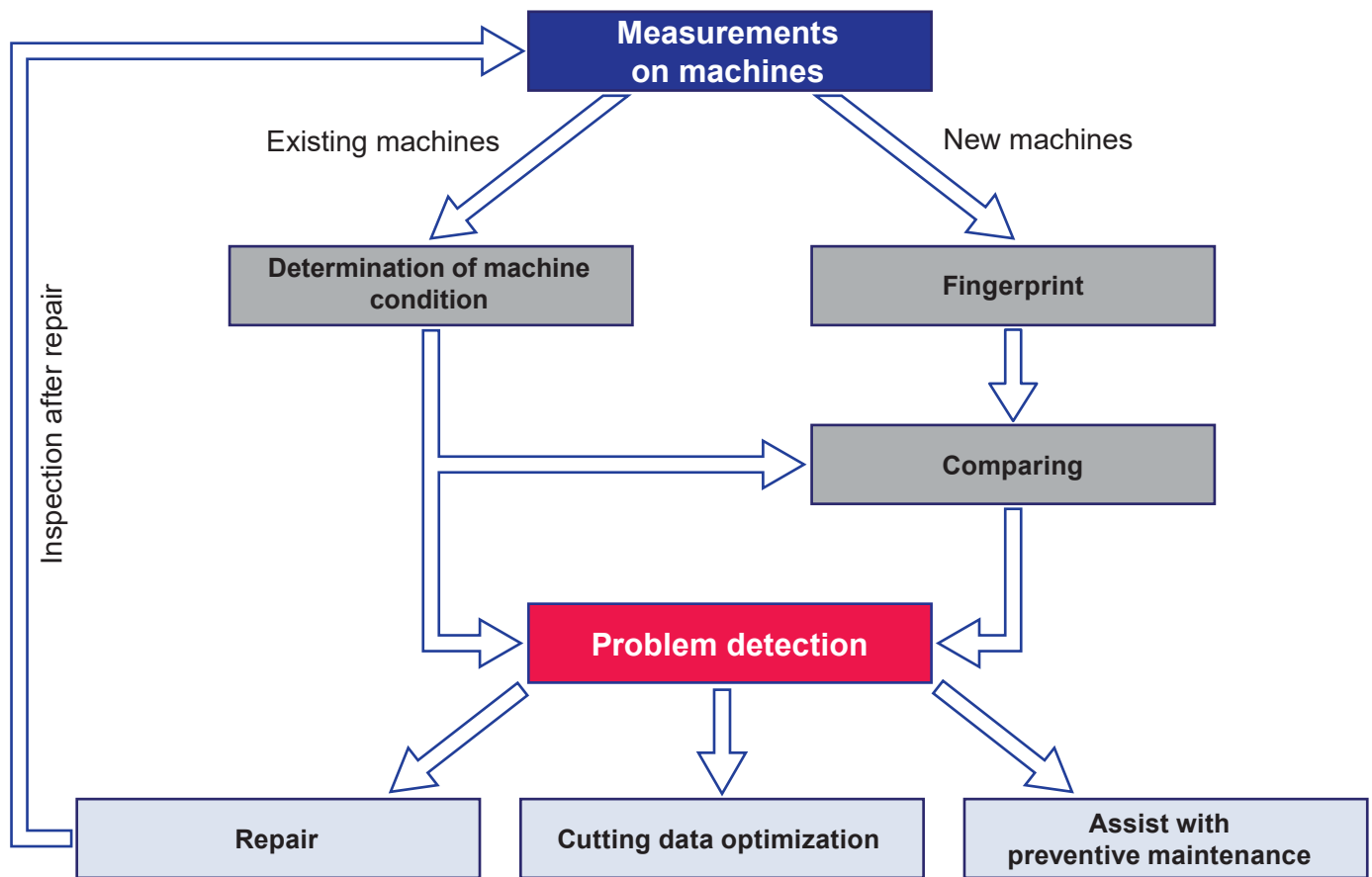
Spindle housing



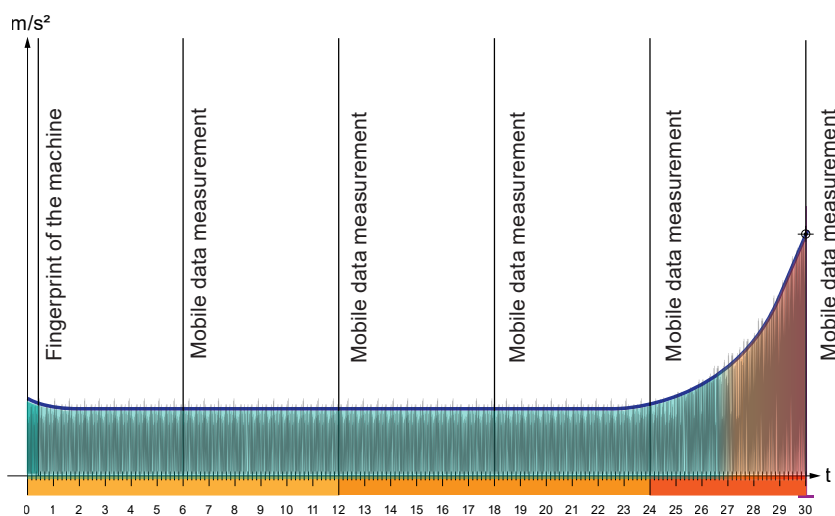
Cutting table / sliding carriage

Application Examples

■ For an Optimal Processing



■ Regular Measurements



Detect Problems of Machine Components

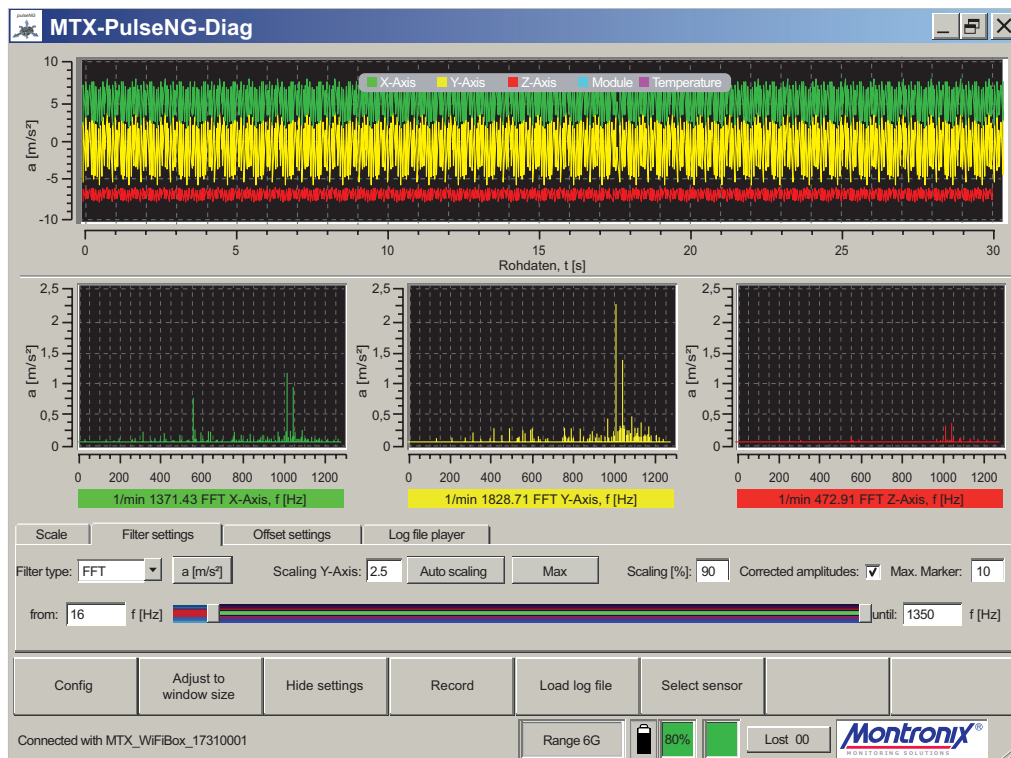
- Wear, trend diagram
- Damages
- Geometry errors
- Inadequate fixing

Benefit from WiFi BoxNG

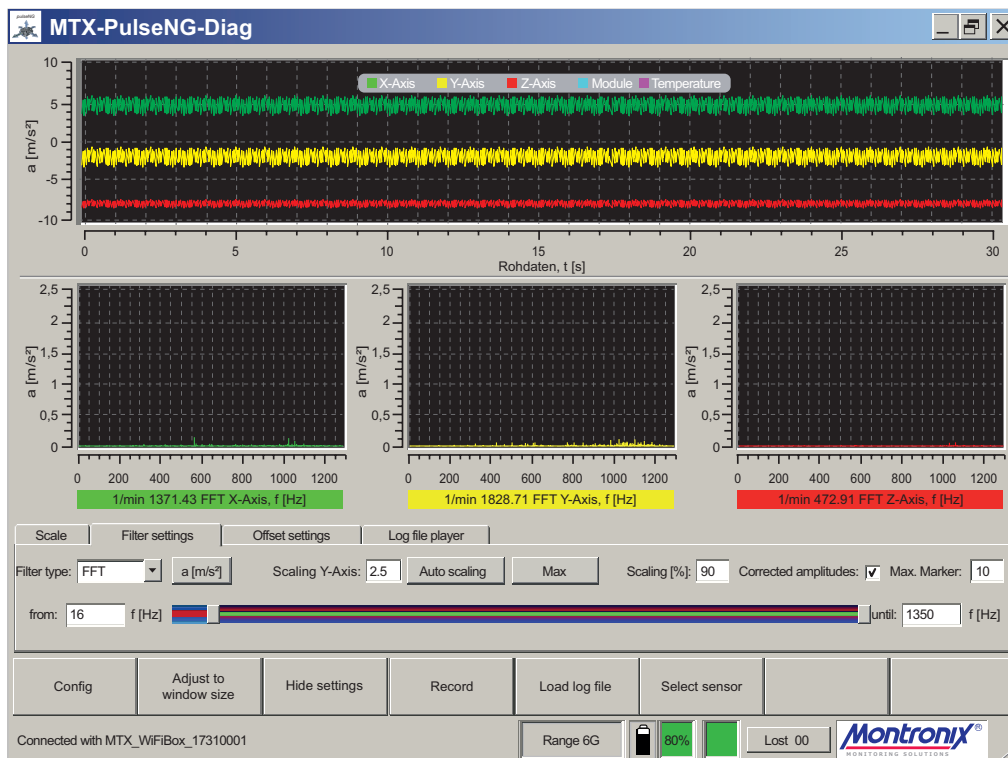
- Increase machine availability
- Inspection after repair
- Improve tool lifetime
- Optimization of cutting data

Application Examples

■ Spindle



before



after

Application Examples

■ Ball Screw



before



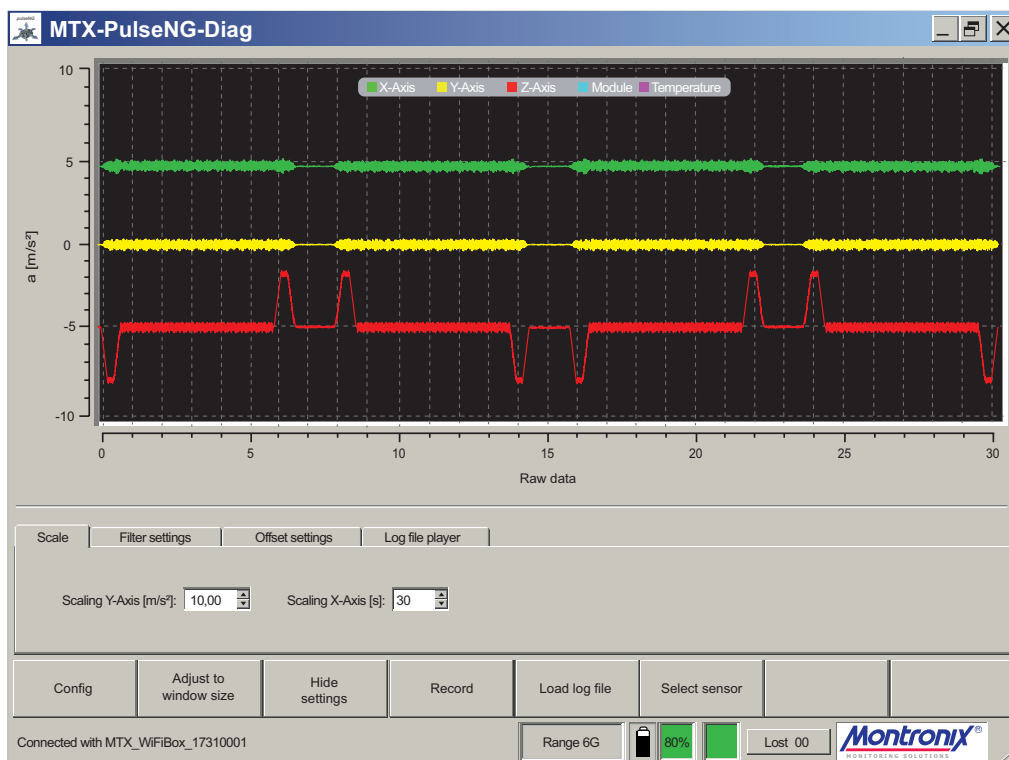
after

Application Examples

■ Linear Guide / Carriage



before



after

Universally Applicable

Machining Centers



Turning Machines



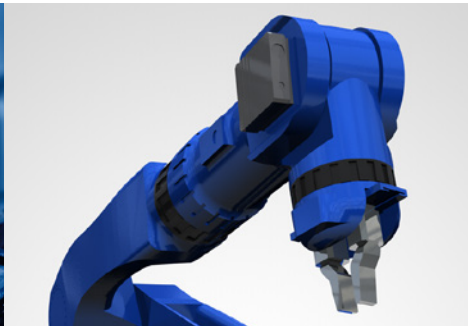
Grinding Machines



Drilling / Milling Machines



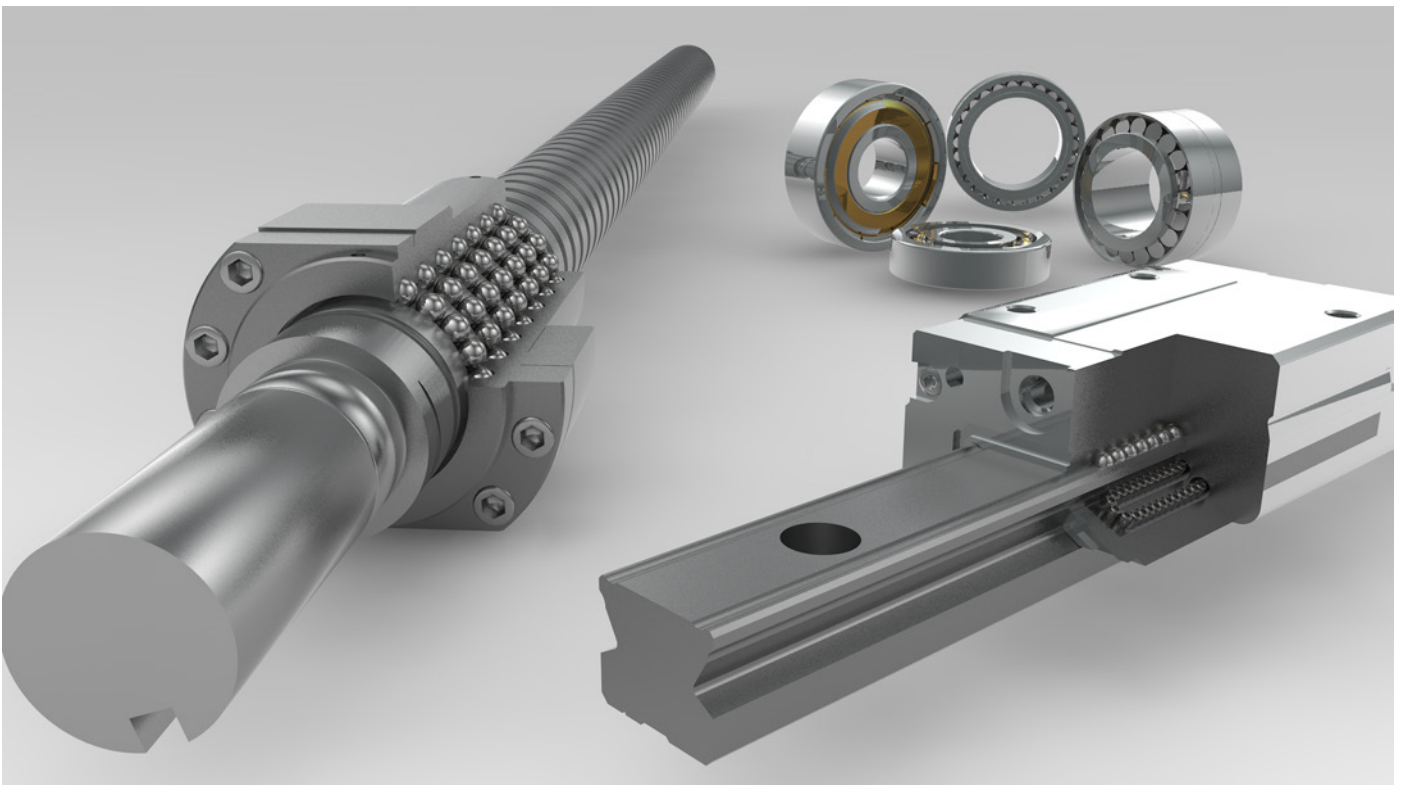
Robots



Handling Systems



Diagnostics of Machine Components



■ Product Features

WiFi BoxNG	
Dimensions (HxWxD) in mm	approx. 130 x 85 x 35
Weight	approx. 450 g
Protection class	IP54
Standard	IEEE 802.11b, 802.11g
Reception range	up to 100 m in buildings
Frequency range	2,412 - 2,484 GHz
Battery run-time	~ 15 h

PulseNG 3 Axes Acceleration Sensor	
Dimensions (HxWxD) in mm	approx. 30 x 40 x 12
Weight	approx. 100 g
Protection class	IP67
Resolution ($\pm 2 \text{ G}$ / $\pm 6 \text{ G}$)	0,01 m/s ² / 0,03 m/s ²
Band width	1350 Hz
Sample rate	3248 values/second per axis of the sensor

■ Global Competency



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