

Tool and process monitoring



Better be safe. Safely be better.

Tool and process monitoring

Description

Tool and process monitoring solutions from MONTRONIX are used worldwide in the metalworking industry. Their application areas cover almost all methods of machining operations.

By detecting and diagnosing production problems, the Montronix monitoring solutions help to reduce production costs and downtime.

A variety of sensor options

Montronix develops and uses high quality sensors providing optimal signals. Only clear signals offer optimal evaluation at the highest resolution possible.

Sensorless process by digital drive data (DDD) is our standard. Intelligent algorithms enable a reliable process monitoring.



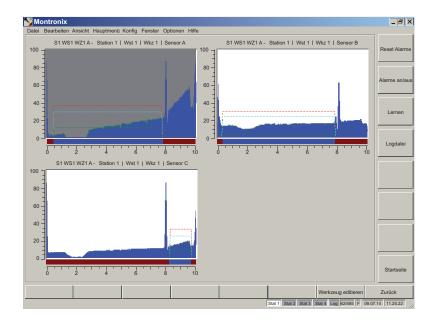








Process visualization software SPECTRA™ -hmi

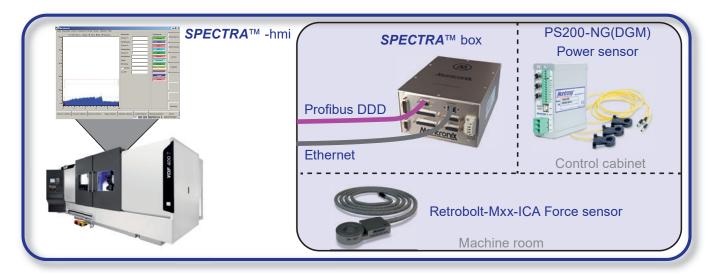


The newly developed process visualization software Spectra [™] -hmi is technically forward-looking:

- Free configurable display up to 12 sensor windows
- User administration with 7 levels of access, protected by password
- Graphical change in the monitoring limits
- · Offline log file player with filter functions
- · Operating system independent
- Quick adjustment of parameters (Multi Edit, Quick Edit)

Applications

Example execution of a turning machine



Monitoring of the turning process

- √ Base: For capitals tool breakages
- ✓ MONTRONIX recommendation: Micro breakouts, quality assurance, collision
- **▶** Extension: Monitoring Lifetools
- ✓ Drilling, milling and threading processes
- ✓ For tools \emptyset < 3 mm shredding machines

and Force sensor

with:

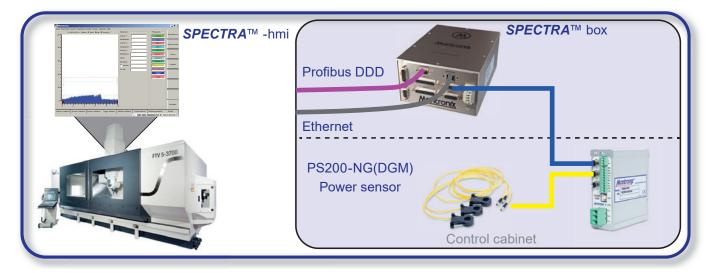
and

with: Digital Drive Data

Power sensor

Digital Drive Data

Example execution of a machining center



Monitoring of the cutting process

- ✓ Drilling, milling and threading processes
- ✓ For tools \emptyset < 3 mm shredding machines

⇒ Extension:

✓ Collision protection and vibration overload

Digital Drive Data with: Power sensor

and

with: Vibration sensor

PulseNG or



GLOBAL COMPETENCY



MONTRONIX GmbH

Benzstr. 7

Headquarter

D-71720 Oberstenfeld

MONTRONIX GmbH

Tel: +49 7062 6793 00 Gottlieb-Daimler-Str. 53/1 Fax: +49 7062 6793 10

Headquarter D-71711 Murr

GREEPS TWww.montronix.com Telephone +49 7144 15086 30

Montronix Representations Fax

+49 7144 15086 31

worldwide at:

https://www.montronix.com



