WSA
WHEEL SURFACE ANALYSER

APPLICATION

- Wheel roughness quantification.
- Wheel diameter.
- Out-of-roundness.
- Noise measurements and predictions.

FEATURES

- Measures wheel surface perpendicular variation as function of distance along circumference.
- Complies with EN 15610:2009.

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SPECIFICATIONS

Measurement transducers

- Dynamic range: ± 5000 µm.
- Transducer type: displacement (LVDT).
- Number of transducers: 3 (independently positioned over the rail head).
- Measurement noise floor: 0.1 µm.
- Encoder for position determination 128 pulses per rotation.

Data acquisition

- Recording device: 4 channel simultaneous sampling – 16 bit A/D converter.
- Resampling in post-processing at 1000 samples per meter.
- Data storage: 1 Gigabyte memory.
- 6 hours of measurements.
- Download of data to laptop: USB-1.

Data processing

- Flexible software allowing data output in various forms.
- Roughness spectra in:
  - 1/3 octave bands ;
  - narrow band ;
  - PSD.
- Colour maps.
- RMS level versus distance, …