

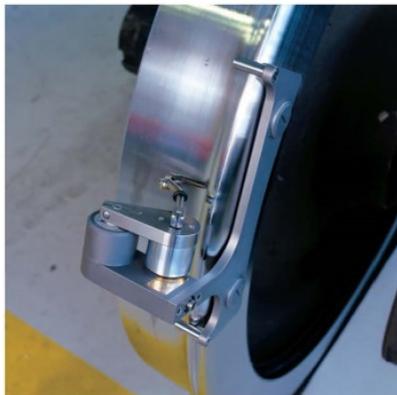
MiniProf

Profiling Wheel wear

The **MiniProf Wheel** is a reliable and accurate piece of measuring equipment, which anyone can operate. Its magnetic attachment enables you to measure the wheels of a complete railroad car in less than five minutes.

The **MiniProf Wheel** calculates S_d , S_h and qR instantly and can also measure the wheel diameter.

The reliable information on wheel wear enables you to optimise your maintenance and safety efforts.



Standard Wheel

The MiniProf Wheel instrument is an easy to use, lightweight and handheld tool for monitoring cross sectional profiles of the wheel. It is attached magnetically to the backside of the flange.

The instrument can be used on many different wheel types ranging from trams to locomotives. Adaptations can be made when no fitting design is available.

The instruments are normally used with a laptop for storing measurements. USB type instruments can also be used with a PDA making the use of MiniProf even more easy.



Lightrail Wheel

The MiniProf Lightrail series are compact Wheel instruments designed for use on tramway vehicles. The smaller back plate allows the instrument to be mounted even if the available space is near to non-existent.

The Lightrail instruments can also be made to take reference on the inner diameter of the wheel resulting in higher precision on the diameter.

The instruments can also be placed on the outside of the wheel giving a much more flexible instrument to use in the field.



TwinHead Wheel

The normal single head MiniProf Wheel instrument is extended to a TwinHead Wheel with a fixed beam between two heads. The system is magnetically attached to both wheels on the axle.

The TwinHead is efficient to obtain maximum accuracy when joint profiles are measured without moving the instrument.

The system is ideal for interaction studies between wheels and rails. Applications for a TwinHead are: Contact studies, Optimisation of wheel-rail contact, Steering/curve negotiation. Plug-in for calculating Equivalent Conicity is available.

MiniProf features

- Full contact measurements
- Magnetic attachment of instrument
- Easy to use and carry
- High precision titanium design
- USB connection to instrument
- Embedded battery for PDA and extended use
- Shock and water resistant transport case
- Calculation of wear parameters
- Comparison with reference profiles
- Open file format with 500-800 points per profile
- Profile and diameter in one single measurement
- Approved by DB for profile measurement

Note: MiniProf is patented under the following patent numbers: 166972 in Denmark, 0569469 in Europe, 3154332 in Japan and 5351411 in USA. The European patent covers the following countries: Austria, Belgium, Switzerland/ Liechtenstein, Germany, Spain, France, Great Britain, Italy, The Netherlands and Sweden.

Specifications

- Accuracy Better than $\pm 36 \mu\text{m}$
- Repeatability $\pm 20 \mu\text{m}$
- Weight 0.9 kg
- Speed
 - Measuring rate 10000 points/sec.
 - Profile scanning <5 sec.
 - Processing <1 sec.*
- Profile file size 20-30 kb/profile**
- Power consumption
 - Standby 0.5 mA
 - In use 110 mA

*) Processing speed depends on computer. Especially PDA's will be slower.
**) Size depends on configuration and optional compression

Related products



MiniProf Rail



MiniProf Brake



Wheel Extensions

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