

MiniProf ^{BT})))

Wheel Back-to-Back

The MiniProf Wheel Back-to-Back measuring system is based on reliable full contact measurements and provides outstanding and precise results. Magnetically attached between the backsides of the two wheels, it measures the cross-sectional wheel profile and back-to-back distance in one fast, single measurement in less than five seconds per wheel. A complete railroad car is measured in only a few minutes. With a compact and lightweight design, it can be applied directly under the rolling stock or on standalone wheelsets depending on the type of work. Measurements are performed easily via the free mobile app MiniProf Criterion and calculations of wear parameters are provided instantly.

TECHNICAL DATA

Technology:

Full contact w. magnetic knife-shaped probe wheel for direct contact during the complete measuring process.

Product ID:

MP-165

Profile accuracy:

Better than: $\pm 9,0 \mu\text{m}$

Repeatability: $\pm 2,5 \mu\text{m}$

Back-to-back accuracy:

200 μm

Measuring speed:

< 5 seconds per profile

Operating temperature:

-15°C to +50°C

Weight/dimensions:

MP-165: 2,0 kg.

Transport case: 3,0 kg

Rod case: 1,5 kg

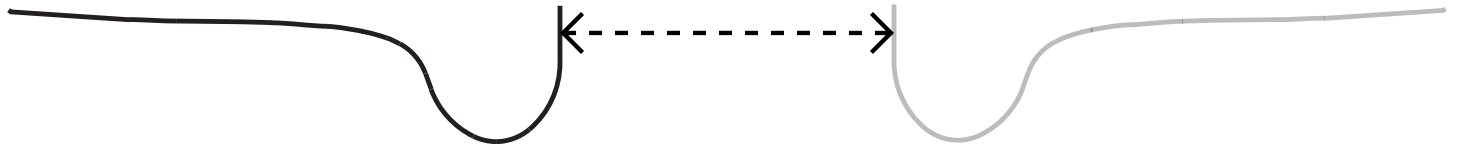
Scope of delivery:

- MiniProf Wheel Back-to-back unit
- Full Envision software package, 5 installations, free software updates. Measuring and analysis supported.
- MiniProf Criterion for iOS and Android. Measuring and analysis (selected calculations) supported. For details, please refer to greenwood.dk/criterion-compatibility.
- MiniProf cable & charger
- Rugged and waterproof transport case IP67 with room for MP and accessories
- Quick guide and free hotline support
- 2 years standard factory warranty with option to prolong to 10 years in total



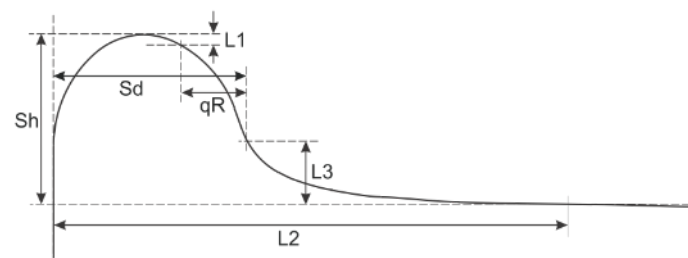
MiniProf - Much more than a measurement!

A world of data handling opportunities available in the full MiniProf Envision software package



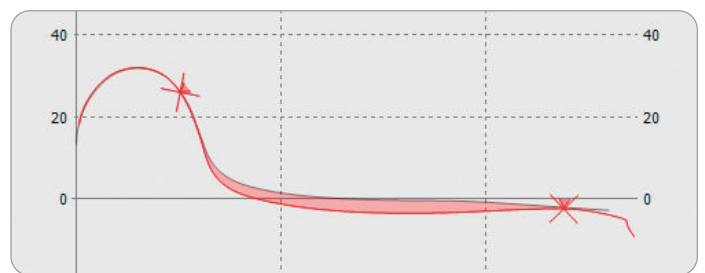
Back-to-back

The combined wheel profile and back-to-back measurement gives a valuable set of wear parameters for evaluating the condition of the wheelset, identifying where maintenance work is required and securing train operation within specified gauge and profile limits.



Wheel wear calculations

The Sd, Sh and qR values are calculated instantly and numerous additional calculations and alignments for wheels are available in the versatile and flexible Envision software package.



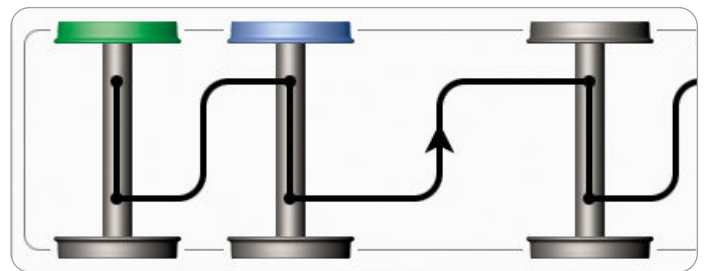
Wheel analysis

The MiniProf Envision software can visualize and calculate residuals and areas automatically. Measurements can be compared in multiple ways and easily exported to various formats. MiniProf Envision offers you a powerful wheel analysis tool as well as user friendly measuring software.



Reprofiling

The MiniProf BT Wheel Back-to-Back system is ideal to use before and after reprofiling of the wheels to determine when to reprofile and how much material to take off during the reprofiling process. This leads to precise reprofiling and improved lifetime of the rolling stock due to the unmatched high accuracy of the MiniProf system.



Measuring scheme

When measuring multiple profiles, the MiniProf BT measuring scheme is a very strong tool for clear identification of each profile in advance and for simplifying and reducing the measuring process even further.