

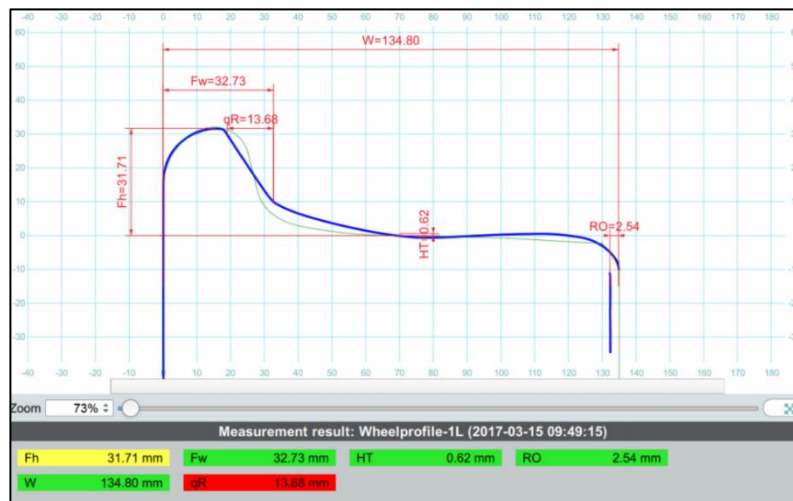
Measurement module “Wheel Profile”



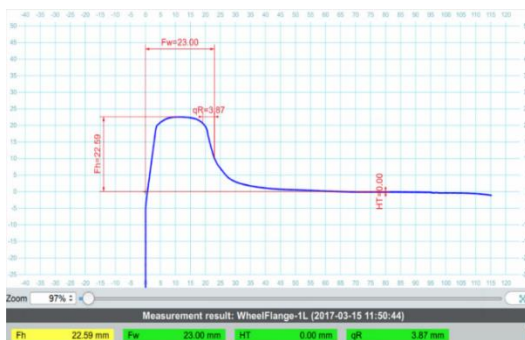
1 APPLICATION

The “Wheel Profile” module allows for the precise measurement of an entire wheel profile cross section within a few seconds. Alongside the key wheel flange dimensions (height, width, qR), the wheel width, hollow tread as well as the roller are determined. The “Wheel Profile” module can be applied for all common heavy as well as light rail wheels. The magnetic supporting gauge “BR 600” is used to measure heavily worn rails and is included in this module offering. Mounted on the unworn area of the inner wheel side, the gauge ensures ensure the correct alignment of the data. All of the measured variables are displayed on the sensor and tablet PC within a few seconds. These results can then be compared automatically with your reference values.

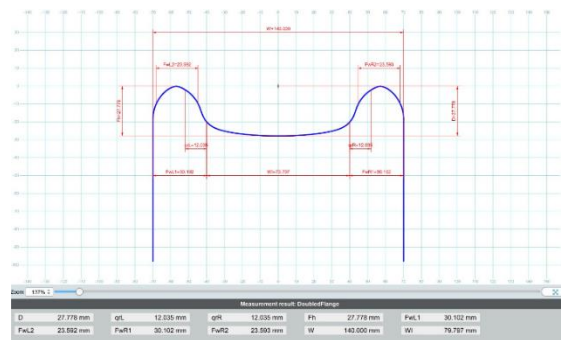
Measured variables:



Measurement method “WheelProfile”



Measurement method “WheelFlange”



Measurement method “DoubleFlangedWheelProfile”



2 TECHNICAL DATA

| | |
|-------------------------------------|--|
| Compatibility | CALIPRI C41, CALIPRI C42 |
| Accuracy | Absolute accuracy: < $\pm 80 \mu\text{m}$ Repeatability: < $\pm 35 \mu\text{m}$ |
| Scope of application | For all common heavy and light rail wheel profiles |
| Dimensions | Flange height → Fh Flange width → Fw Flange width 2 → Fw2 Flange width 3 → d Flange slope → qR Flange angle → FAI Inner flange angle → FAII Wheel width → W Wheel width L → L Rollover → RO Hollow tread → HT Hollow tread 2 → HT2 Rolling circle diameter → Df Arris → Arris Wear area → AW |
| Standards & certificates | CALIPRI is approved and uses i.a. in Germany (DB), Austria (ÖBB), Switzerland (SBB), France (SNCF), China (Chengdu Railway Bureau) and the Czech Republic (SŽDC). This measuring module has been successfully tested according to JCGM100: 2008, DIN V ENV 13005: 1999-06, DIN EN 13715: 2001-01, DIN EN 15313: 2016-09 and DIN 27201-9: 2017-06. |
| Product ID | CMM1001 |



3 SCOPE OF SUPPLY AND SERVICES

- Software license measurement module “Wheel Profile”
 - 3 measurement methods (WheelProfile, WheelFlange, DoubleFlangedWheelProfile)
 - In case of supplementary order: activation via remote access

- Supporting gauge “BR 600”
 - Magnetic gauge for heavily worn wheels



Supporting gauge “BR 600”

Add-Ons

Measurement module “Wheel Diameter“

- Measurement of rolling circle diameter
- Product ID: CMM1005

Measurement module “Tyre Thickness“

- Measurement of railway wheel thickness
- Product ID: CMM1003

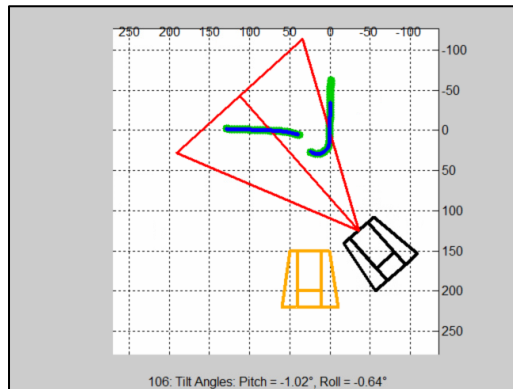
Measurement module “Equivalent Conicity“

- Measurement of running properties (rail-wheel-contact)
- Product ID: CMM1011

4 MEASUREMENT PROCESS



Measurement

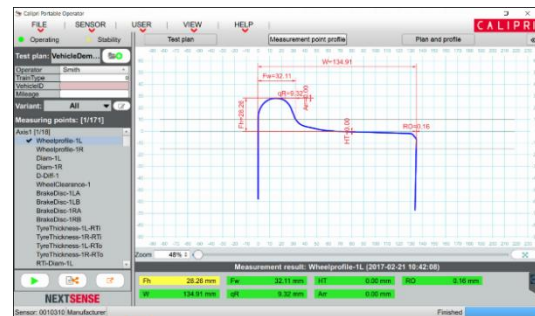


Sensor guidance (Tutor)



Measurement result on sensor

AND



Measurement results on tablet PC

Offer & Live demonstrations:
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