

# WHEEL PROFILE



## WHEEL PROFILE



wheel. The acoustic signals of the Calipri Wheel, as well as a graphic display, help even the inexperienced user to attain quick and reproducible results.

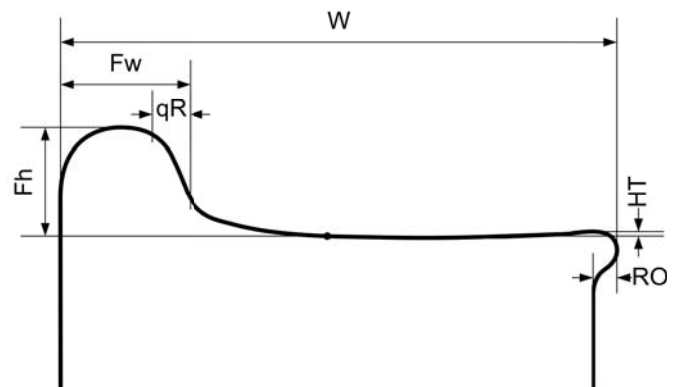
An automatic monitoring of measurement values allows for the immediate examination of the wheel profile as to further options for its deployment. The profile data and measurement values in their entirety are stored for further processing.

“Wheel Profile” is the main module for the measurement of railway wheel sets with the Calipri Wheel. This module allows for the 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 rollover are determined. By dint of flexibly adjustable measurement methods, well-nigh all common wheel widths and wheel

profile shapes of railway vehicles can be measured.

For the measurement, the user simply moves the sensor along the wheel by hand. In doing so, the sensor does not have to be in contact with the wheel nor does it have to be aligned accurately to the



## TECHNICAL DATA

### Measurement parameters:

- flange height – Fh
- flange width – Fw
- flange gradient – qR
- wheel width – W
- rollover – RO
- hollow tread – HT

### System requirements:

CW40 – Calipri-Wheel

**Measurement duration:** approx. 5sec.

**Accuracy:** < +/- 80  $\mu$ m

**Repeatability:** < +/- 35  $\mu$ m

**Accuracy, profile** (standard deviation of all measurement points): < 15  $\mu$ m

### Measuring range:

For all common wheel profiles (for instance, railway and tram wheels)

### Scope of delivery:

- software module (preinstalled on CW40 – Calipri-Wheel)

### Order code:

CWM001 – Wheel profile

CWM011 – Wheel profile Tram

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