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The TMD 1-2 is an efficient solution for the detection of transverse profile on all rails. The measuring device TMD 1-2 is applicable for grooved rails and standard Vignol rails.

The working procedure for rail measuring is based on non-contact principle achieved by laser detection units. The measuring device is portable by hand and weighs only 9 kg.

The TMD 1-2 supports a standard USB interface, external power supply and on-board power supply (2x 18 VDC batteries). The measurement data are recorded in the form of raw data and printable files, on hard disc and USB stick. All recorded data can be analysed on an external PC. The program supports the output of the measured profiles with comparison to the target template curve and information according to DB-Ril 824 regulation.

Detection and calculation of actual transverse profile comply with EN 13231.

Technical data of TMD 1-2

TMD 1-2

Non-contact measuring device

Horizontal range for detection	.....	≤ 100,0 mm
Horizontal resolution	.....	0,1 mm
Vertical range for detection	.....	50 mm
Vertical resolution	.....	≤ 0,01 mm
Vertical accuracy	.....	≤ 0,01 mm
Measuring speed	.....	≤ 1 sec
Recording time	.....	≤ 1 sec
LASER class	.....	2 M
Rechargeable battery type	.....	2x 18VDC / 2x 60 Ah
Battery capacity (permanent measurements)	.....	8 hrs
Operating temperature range	.....	-10°C to +65°C
Weight of measuring device	.....	9,0 kg
Online-port	.....	- USB - WLAN, - Online-Evaluation

Control panel

Display	.....	10 inch touch screen
Resolution	.....	1024x768 Pixel, LCD
Degree of protection	.....	IP 67 (100% humidity)

Evaluating-Software PROFIL-SOFT

Online-processing software for on-site validation of the measuring results

- Operating system: XP, WIN 7, WIN 10
- 10 different templates (reference profiles) including different inclinations
- Evaluation methods:
 - two fixed reference points according to EN 13231
 - calculation of rail wear perpendicular to reference profile
 - track gauge detection
 - 10 points detection according to EN13231
- One-window screen: all relevant measuring data are displayed in one window per rail.
- Evaluation of various types of raw data
- Data recording on USB



DEVELOPMENT - DESIGN - MANUFACTURING - SALE - SERVICE

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