



Vogel & Plötscher

RMF 1100

Mobile corrugation measuring system



Primary profile of the rail surface



Simultaneous measurement of the left and right rails



Complies with EN 13231-2:2020 and DB directive 824.8310:2017



RMF 1100

RMF 1100 is the approved longitudinal measuring system for the checking and the acceptance of reprofiling work such as grinding or milling of rails, in accordance with the applicable regulations.

Innovative capture

Data capture is performed continuously on the basis of our unique RMF measuring principle, which has been internationally proven and recognized for years. The two side parts of the measuring system each generate an ongoing chord on the rail surface. Special measuring pins with high-resolution sensors record the primary profile of the left and right rail surfaces at intervals of 2 millimeters. The measuring software **RMFcatcher** displays the measured values graphically and numerically in real time on the outdoor notebook "MPC". An export of the measuring data is possible in *.csv or *.xls format. The user can take notes about structural characteristics or deficits of the rail to a specific measuring point. The recorded primary profile is the serious and verifiable basis for all subsequent evaluations.

Better evaluation

The optional evaluation software **RMFviewer** enables a professional data processing including a graphical evaluation and a measurement report according to EN 13231-2:2020 and DB directive 824.8310:2017. The recorded primary profile is split and evaluated in defined wavelengths from 10 mm to 1000 mm. Customized measurement reports and evaluations are available on request.

Practical adjustment

The measuring system is supplied in a tough storage case. It can be set and used by one single operator. Optionally, the RMF 1100 can be supplied with an assembly kit for grooved rails or as a special design for the mounting into reprofiling machines.

Technical data*

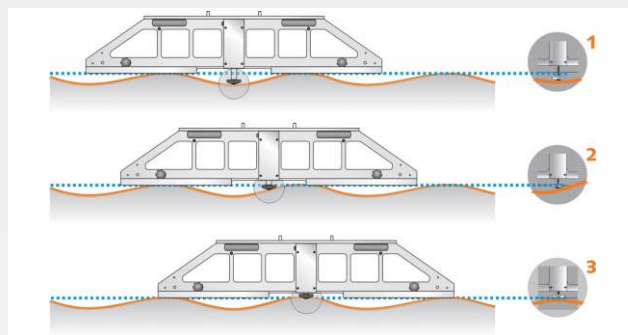
Nominal track gauge:	1435 mm and 1000 mm
Measurement resolution:	0,01 mm
Sampling rate:	2 mm
Measuring range:	-3,5 bis +2,5 mm
Wavelengths:	10 mm – 1000 mm
Measurement speed:	Walking speed (~ 2-5 km/h)
Dimensions Weight	
> RMF 1100	~ 1200 x 1660 x 850 mm 48 kg
> Case:	~ 1710 x 570 x 430 mm 38 kg

*All figures based on a nominal gauge of 1435 mm.
Details for other gauges available on request.



RMF 1100 integrated in reprofiling machine

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Measurement method RMF 1100



RMFcatcher measuring software (paused mode)

Key features

- + Digital measurements of corrugation and waves
- + Primary profile of the rail surface
- + Evaluation according to EN 13231-2:2020 and DB directive 824.8310:2017 (option)
- + The measuring system is longitudinally and transversely insulated
- + Customized integration into reprofiling machines (on request)
- + Modular structure made of robust aluminum
- + Approved by DB

For more information
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Maß nehmen.