



MessReg IMU

Inertial track geometry trolley

- ✓ Measurement of absolute track geometry
- ✓ Automatic continuous data capture
- ✓ EN 13848-4 compliant

www.vogelundploetscher.de/en
www.robел.com

MessReg IMU

Precise and reliable detection of track alignment faults provided by advanced IMU-based measurement of track geometric parameters – that is what MessReg IMU guarantees. The measurement system is the ideal solution for validating absolute track geometry, for example before or after tamping. Measurement data is displayed numerically and graphically in real time. The corresponding limit values can be set individually. Tolerance exceeding are automatically detected by the software and highlighted in colour. In addition, the user can enter events or track defects according to their position – simply at the touch of a button.

The measurement result is then available either as a PDF report or as an Excel data export.

Engineered to be modular and ergonomic

Thanks to its smart and modular design, MessReg IMU is made ready for measurement in a few simple steps. On track, the measurement system can be operated by one person. Alternatively, the measurement technology can be built-in as an integrated system for other rail vehicles.

Applications

- ✓ Track geometry inspection
- ✓ Inventory assessment of track section
- ✓ Construction acceptance and commissioning inspections
- ✓ Data provision for tamping operations

Standard scope of supply

- ✓ Mobile inertial measurement system
- ✓ Outdoor tablet with GPS
- ✓ Software for data capture and evaluation
- ✓ Solid transport case

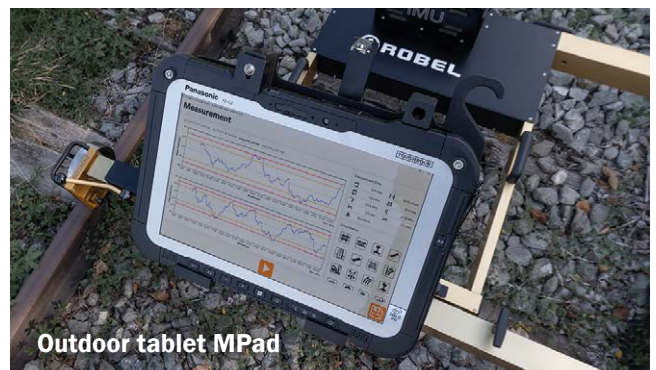
TECHNICAL DATA*

Measurement resolution	0,1 mm
Measurement interval	≤ 250 mm
Track gauge	1420 – 1485 mm
Gradient	± 65 mm
Cant	± 225 mm
Twist	± 225 mm
Alignment	± 50 mm
Longitudinal level	± 50 mm
Chord	configurable

Dimensions | Weight

MessReg IMU	~ 1640 x 940 x 1000 mm 35 kg
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* Preliminary technical data. Subject to change without notice.
All specifications refer to the nominal track gauge of 1435 mm.
Other track gauges available on request.



KEY FEATURES

- ✓ Efficient determination of absolute track geometry
- ✓ High-precision inertial measurement
- ✓ Real-time display of measurement data
- ✓ Automatic data processing with graphical evaluation
- ✓ Complies with EN 13848-4

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