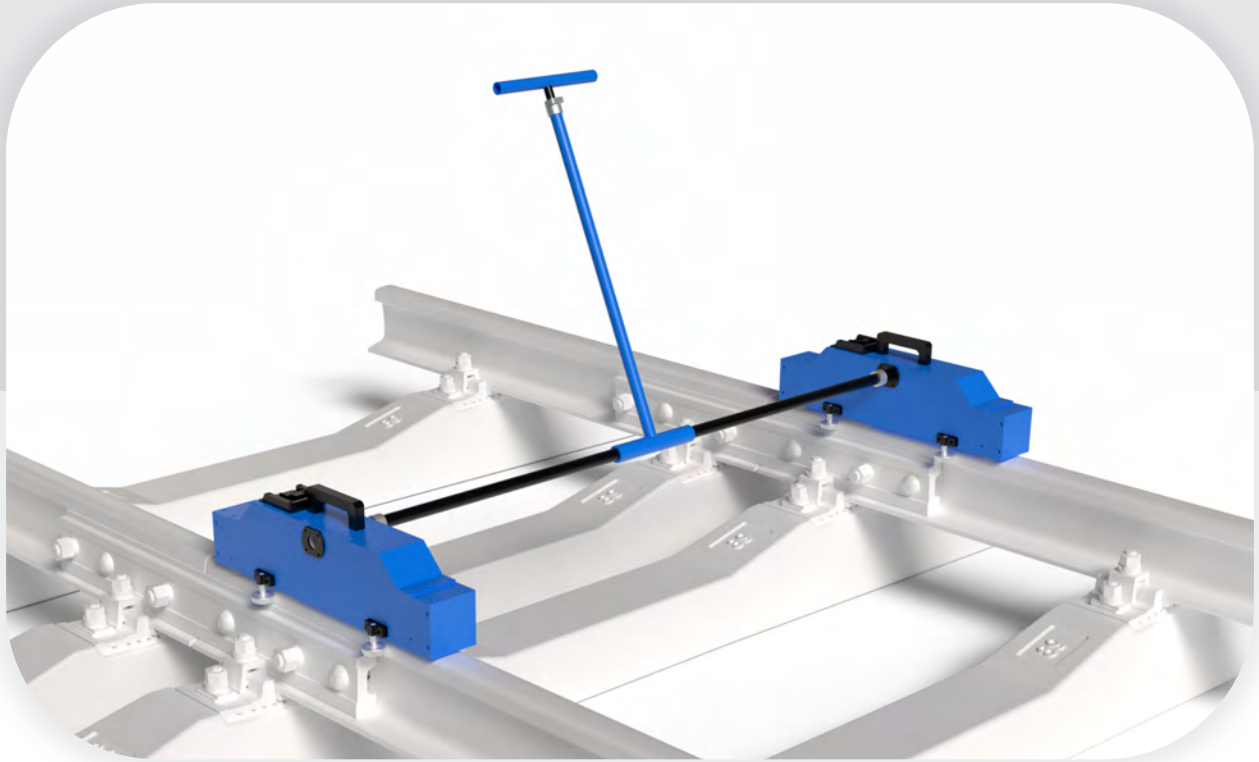




RVC1000 - Inspection Trolley

*Accurate Rail Corrugation Measurement,
enhanced by intelligent visual inspection*

The RVC1000 is a portable inspection trolley equipped with high-resolution cameras and optical sensors designed for rail corrugation and top-rail surface analysis. The system records synchronized video and profile data while moving along the track, providing a complete representation of the rail condition.



Accurate
Corrugation
measurement



HD Rail
Surface
Visualization



Intelligent
Data
Analysis



Smart Use
with single
operator

Main Technical Parameters



Parameters	Value
Step Acquisition	1 mm or 2 mm
Measurement Speed	Up to 5 Km/h
Camera resolution	0.2 mm per pixel
Displacement precision	0.001 μ m
Repeatability	1 μ m
WaveLength	10-30, 30-100, 10-300, 300-1000 [mm]
Compatible with:	EN 13231-3 2012 JJF1035-2011 GB/T 1958-2017
Battery	4 h, Makita tools battery
Illuminating system	LED
PC	Rugged Tablet PC

Rail Corrugation & Surface Inspection

RVC1000 performs precise measurement of corrugation on the top of the rail, integrating:

- High-accuracy corrugation measurement
- High-definition visual inspection of the rail head
- Synchronized data and image acquisition

The system allows operators to **directly associate numerical corrugation values with the actual rail surface condition.**

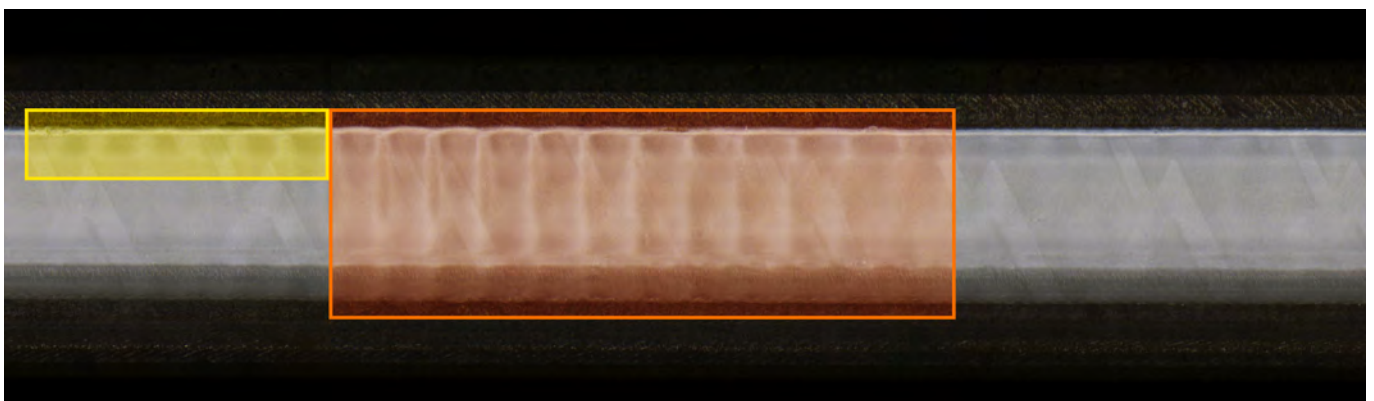


In-Office Analysis Software

The dedicated **In-Office software** allows operators to:

- Analyze acquired corrugation and video data
- Configure evaluation thresholds
- Generate detailed inspection reports
- Review rail surface images synchronized with measurements

Thanks to **artificial intelligence algorithms**, rail surface images can be **automatically analyzed** to support the detection of rail surface defects, improving inspection efficiency and consistency.

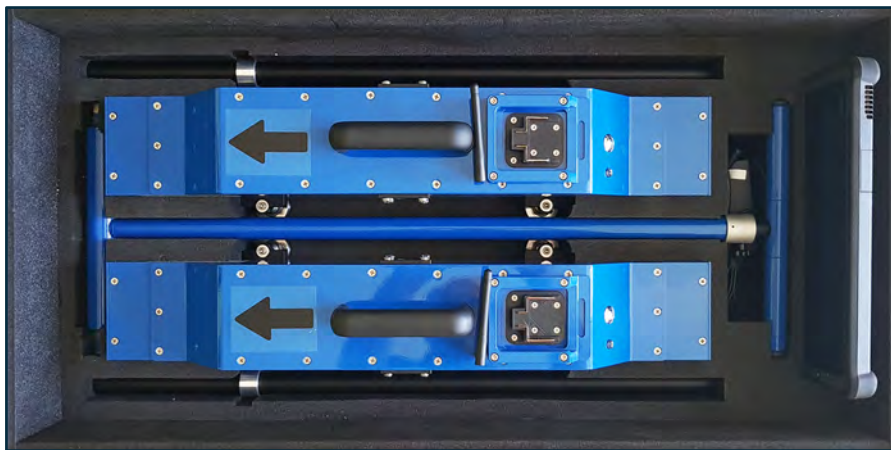


Portability & Field Operation

RVC1000 is designed for maximum portability and ease of use:

- Can be **transported and operated by a single person**
- **Quick on-site deployment** without complex setup
- **Ideal for spot inspections and targeted measurement campaigns**

The **trolley-based design** makes it suitable for use in a wide range of operational environments.



Power Supply & Autonomy



RVC1000 is powered by **external removable battery packs**, handled in the same way as common professional electric tools.

- Each battery pack provides **more than 4 hours of continuous measurement**
- **Batteries can be replaced quickly and easily**
- With spare battery kits, operating time can be extended to match the available inspection window