RailMeasurement

RAIL MEASURING TECHNOLOGY
WHEN ACCURATE MEASUREMENTS MATTER

RRT

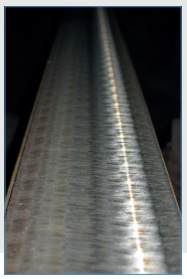
RM-RRT Rail Roughness Tester
Rail Surface Roughness measuring device for rails in tracks and switches,
Suitable for vignola and grooved rails and in accordance with EN13231-2:2020.

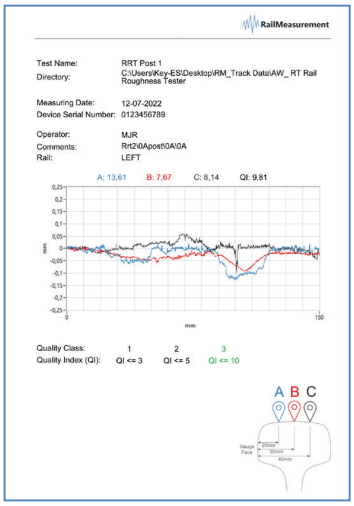
RailMeasurement

Product description:
Rail surface irregularities of the order of microns (0.001 mm) in amplitude are important in the generation of wheel/rail rolling noise and vibrations. The RRT portable rail roughness measuring device is easy to carry and set-up and is suitable for verification of the quality of the rail running surface by means of the quality index (QI) as per the EN13231-2:2020 standards.

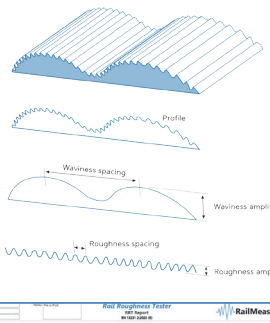
Applications:
- Monitoring of rail surface quality – evaluation of rail Quality Index (QI)
- Detection of rail surface irregularities
- Detection of rail rougness even below the 10 - 30 mm wavelength range
- Assessment of mobile rail treatment results e.g. rail grinding and milling
- Measuring and monitoring depths of short wave corrugations

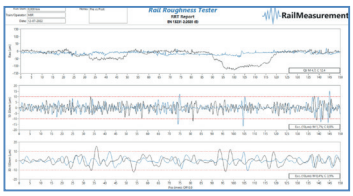
Main characteristics:
- Measurements that are highly accurate and repeatable
- Relatively simple installation and setup
- Contact measurement system using 3 displacement sensors
- Suitable for any track gauge
- User-friendly software for acquisition and review of measurement data
- Operation through notebook or tablet-pc
- Robust yet light weight design
- Extensive product support





QI – rail roughness





Short wave corrugation – rail waviness

TECHNICAL DATA RRT Rail Roughness Tester

# probes and lateral positions	3 probes at fixed positions 20 - 30 - 40 mm from gauge face	
Measuring probe resolution	0.0001 mm	
Accuracy	0.001 mm	
Measuring range vertical	1.5 mm	
Measuring range horizontal	150 mm	
Track gauge	Multi Gauge 800 - 1650 mm	
Dimensions	300 x 120 x 100 mm	
Weight	5 kg	
Standard compliance	EN13231-2:2020	

TECHNOLOGY FROM THE LEADERS IN RAIL MEASUREMENT SYSTEMS