

RAIL & CROSSING PROFILE MEASUREMENT



Rail Profile Contact Scanner - Basic Version

Applications of RPCS include:-

- Checking the manufactured rail profile at takeover
- Periodic checking of rail wear for planning the maintenance
- Measuring the eliminated material and measuring the profile during grinding activity

The portable RPCS is a very effective equipment for measuring the rail profile because of its light weight, simple and quick operability. The magnetic measuring base and the telescopic support leg provide stability and adequate measuring position. The mechanical scanning roller scans the real rail profile, therefore the contamination on the rail surface does not distort the measurement. The profile measurement can be done on most of the rail types e.g. on Vignol and Phoenix rails as well.



Rail Profile Contact Scanner - Frog measurement

With a "Frog" attachment the RPCS device is capable of measuring the cross section profile of the frogs at turnouts. The following parameters can be measured and calculated with this option:

- the top wear of the switch blade
- the width of the flangeway
- the depth of the flangeway



Technical Specification

Resolution	5 μ m	Repeatability	\pm 10 μ m
Time demand of one measurement	cc. 8 seconds	Accuracy	+20 μ m
Operation temperature	-20°C ... +50°C	Measuring range X	320 mm
Operating time	Min. 8 hours/1000 measurement	Measuring range Y	60 mm
Supply	1 rechargeable battery (18560 type)	Communication	Bluetooth
Insulation resistance	2 MOhm/500 V (DC)	Dust and water resistance	IP54

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