

MS 150/50

system for measuring the railway wheel profile

The measuring system is intended for measuring the railway wheel profile and determining its basic wear parameters. The measuring system is composed from a measuring unit and evaluating PC, for which a notebook computer is used. Both the devices are connected with a standard wireless communication technology IEEE 802.11 Wi-Fi.

The system allows measuring both dismantled wheelsets and the wheelsets on the vehicles and trainsets in operation, without necessary dismantling any vehicle parts. Based on the measurement and on its visualisation, the system compares the real measured values with the correct wheel profile and performs its basic evaluation. The system allows installing additional software modules for a deeper data analysis.

Basic technical parameters MS-150/50

Measurement range on the x-axis	150 mm
Measurement range on the y-axis	50 mm
Sensor resolution on the x-axis	0.02 mm
Sensor resolution on the y-axis	0.01 mm
Laser class	2EIC 60825-1:2008-05
Operating temperature range	0 to +50 °C
Storage temperature range	-20 to +70 °C
Dimensions	220 x 105 x 150 mm
Weight	1.5 kg (3.3 lbs)
Communication	Wi-Fi, range ca 100 m
Power supply	Li-Ion 3,7 V / 5,8 Ah
Measurement time:	
– low resolution	ca 3 s
– high resolution	ca 6 s
No of measurements to one charge cycle (1 measurement / 1 min)	ca 800 –1000 measurements

