

# RAIL PROFILE MEASUREMENT GAUGE PRP SERIES



Portable laser rail profilometer (PRP) is designed for non-contact registration of cross-section of the railhead acting face.

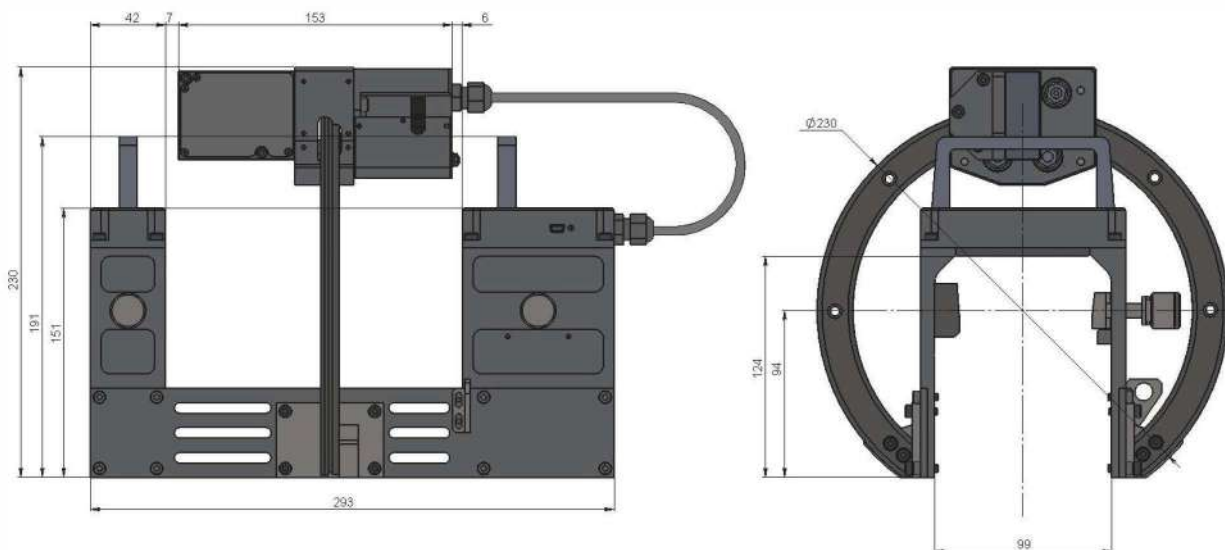
The main functions of PRP are:

- obtaining the information on the cross-section profile of the working railhead surface;
- full profile scanning and analyze of the railhead acting face;
- visualization of the combined graphical images of actual and new crosssection.

## BASIC TECHNICAL DATA

<b>Railhead vertical wear, mm</b>	from -15.0 to +20.0
<b>Lateral railhead wear, mm</b>	from -15.0 to +20.0
<b>Reduced railhead wear, mm</b>	up to 20.0
<b>Scanning angle inside the rail track, degrees</b>	108
<b>Scanning angle outside the rail track, degrees</b>	108
<b>Measurement error, not more than, mm</b>	±0.1
<b>Scanning time, sec</b>	10-12
<b>Power supply, laser module</b>	3.7V Li-ion battery, 6800mAh
<b>Power supply, PDA</b>	3.7V Li-polymer battery, 3300mAh
<b>Number of measurements that can be taken before battery recharge, not less than</b>	500
<b>PDA memory capacity</b>	100 000 measurements
<b>Interface between a laser module and PDA</b>	Bluetooth

## OVERALL DIMENSIONS

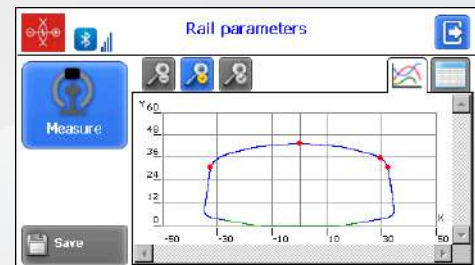
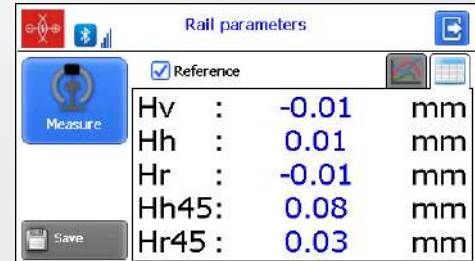
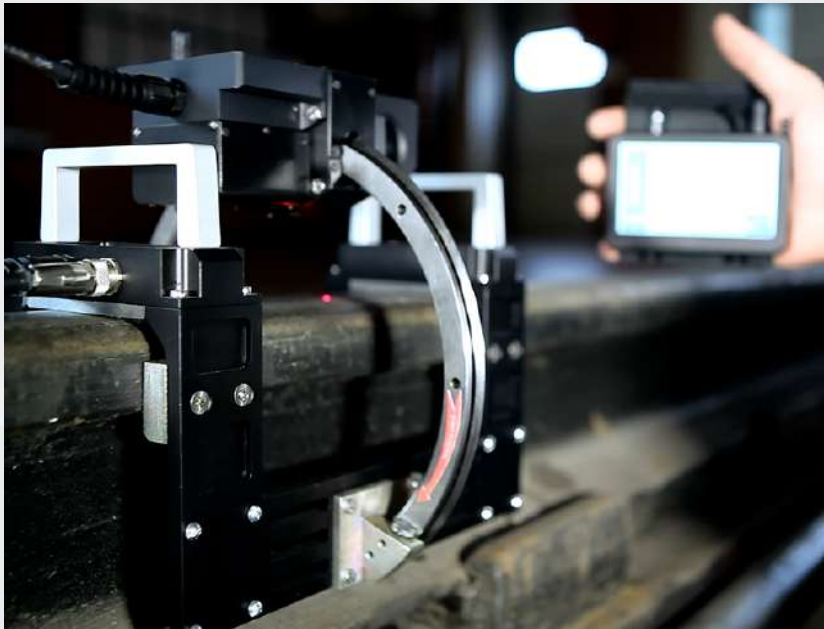


Certified according to ISO 9001:2015

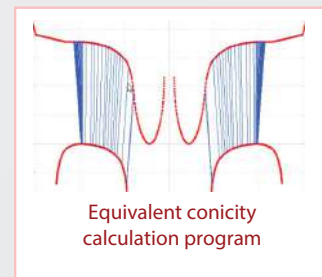
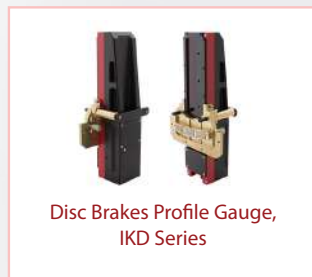
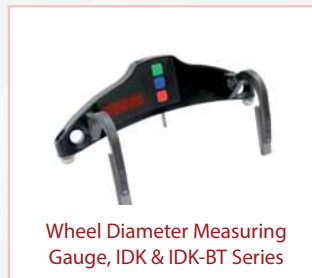


**OPERATION PRINCIPLE**

Operator mounts the laser scanning module onto the railhead to be measured. Having received a command from PDA or PC, the laser module performs non-contact scanning of rail surface. Measurement results (geometric parameters and profile of the surface) are displayed on PDA, can be saved in the PDA memory, and transferred to the PC database. Simultaneously, additional parameters can be saved: date, operator number, permanent way division, track number, rail type, etc.



**MEASUREMENT INSTRUMENTS FOR RAILWAY TRANSPORT**



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