

# DISC BRAKES PROFILE GAUGE IKD SERIES



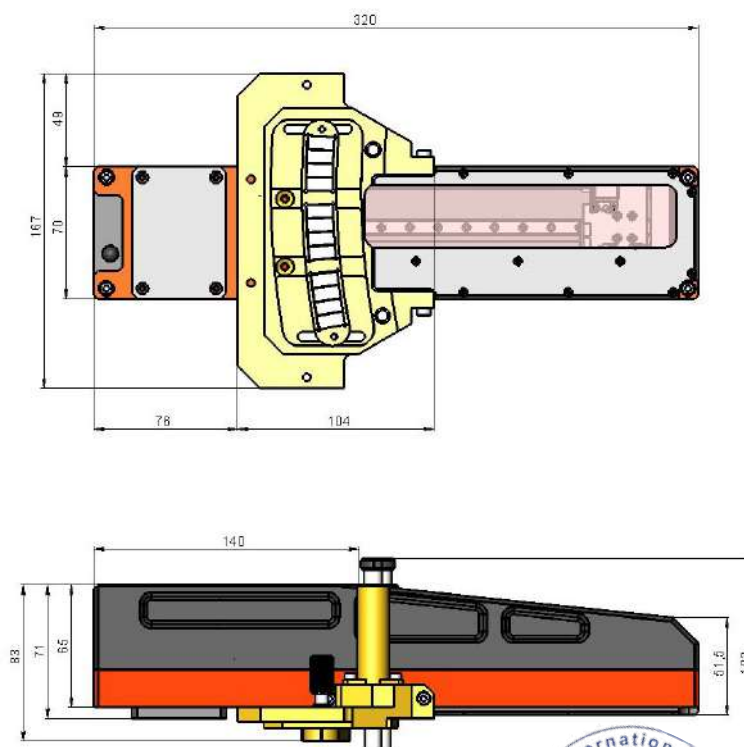
PDA based handheld instrument is employed for laser scanning and measurement of brake disks wear parameters.

The device is supplied with database and software package for disks wear data storage and processing.

## BASIC TECHNICAL DATA

Name of parameter	Value
Profile measurement range, mm	150
Measurement range, mm	30
Measurement error	± 0.03
Discreteness of indication, mm	0.01
Digital readout device dimensions (PDA), mm	114x74x20
Power supply (laser scanning module), V	3.7 Li-ion rechargeable battery 6800 mAh
Power supply (PDA), V	3.7 Li-polymer battery 3300 mAh
The number of measurements that can be taken before battery recharge is not less than	1000
PDA memory capacity, no less	100 000 measurements
Interface between laser module and PDA	Bluetooth

## OVERALL DIMENSIONS



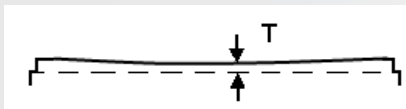
Certified according to ISO 9001:2015



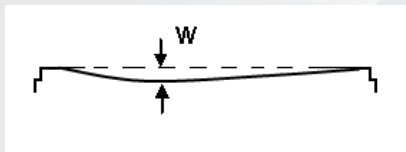
**OPERATION PRINCIPLE**

Operator mounts the laser scanning module onto the wheel to be measured. Having received a command from PDA or PC, the laser module performs non-contact scanning of the wheel 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: operator number, side identifier (left or right wheel), axis number, locomotive (carriage) number, wheel pair number, etc.

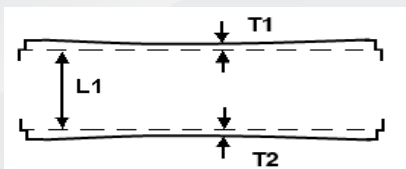
**GEOMETRIC PARAMETERS OF THE BRAKE DISC UNDER CONTROL**



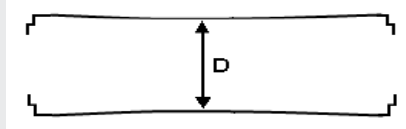
**Brake disc thickness:**  
Calculation of the brake disc thickness.



**Brake disc wear:**  
Calculation of the brake disc wear in relation to the reference profile.



**Overall brake disc thickness:**  
Calculation of the brake disc thickness. Calculation of the minimum value of the brake disc thickness for both sides.

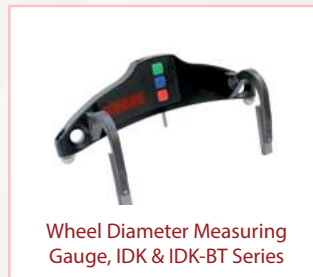


Two profiles must be measured:  
 $D = T1 + T2 + L1$

**MEASUREMENT INSTRUMENTS FOR RAILWAY TRANSPORT**



Railway Wheel Profile Gauge, IKP Series



Wheel Diameter Measuring Gauge, IDK & IDK-BT Series



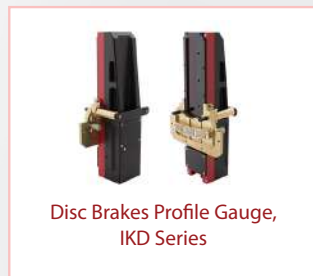
Back-to-Back Distance Measuring Gauge, IMR-L Series



Real time wheels geometry measurement system 3DWheel



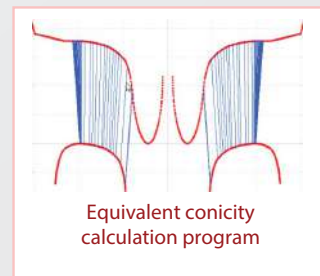
Back-to-Back Distance Measuring Gauge, IMR Series



Disc Brakes Profile Gauge, IKD Series



Rail Profile Measurement Gauge, PRP Series



Equivalent conicity calculation program

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