

WHEEL DIAMETER MEASURING GAUGE **IDK & IDK-BT SERIES**



Electronic gauge is designed for measuring wheel rolling circle diameter. Measurements are made directly on rolling stock without wheel set roll-out. The measurement of the diameter is performed according to the "three points" technique, without the complete wheel coverage.

The gauge contains numeric display to show the value of the wheel diameter. IDK-BT gauge contains Bluetooth interface for transfer results into wheel-set wear database management system.

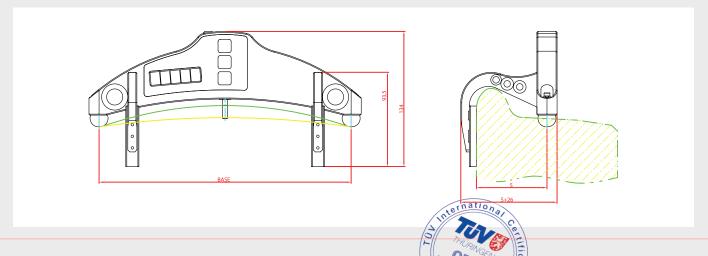
BASIC TECHNICAL DATA

Name of parameter	Value	
Measurement range, mm	4001400 or on request	
Measurement error, mm	±0.2	
Indication discreteness	0.1mm, 0.01mm or 0.01 inch	
Position of measurement, S, mm	on request	
Distance between axes of ball bearings (base), mm and measurement range, mm	200±0.5 (400950 mm) or	
	250±0.5 (6001400 mm) or	
	300±0.5 (7201400 mm)	
Display	build-in, LED	
Operating temperature, °C	-5+55	
Power supply – built-in rechargeable battery	rechargeable batteries 2xAAA 1,2V	
The number of measurements that can be taken before	1000	
battery recharge is not less than	1000	
Weigh, kg	0,5	

OVERALL DIMENSIONS

Electronic gauge contains two ball supports to place the gauge onto the roll surface, two side magnet supports to base the gauge to the wheel edge and a measuring tip.

There are a digital numeric display and control buttons on the front panel of the gauge. "Charge" connector for charging device connection and Bluetooth indication LED are situated on the top panel of the gauge.



RIFTEK Certified according to ISO 9001:2008



OPERATION PRINCIPLE

The measurement of the diameter is performed according to the "three points" technique, without the complete wheel coverage. The measurement method is based on the diameter calculation by the known length of the segment chord (the distance be-tween the ball bearings centers), which is obtained at placing the gauge onto the wheel.

EXAMPLE OF DESIGNATION WHEN ORDERING

IDK-S/B-MIN/MAX-X

Symbol	Description	
S	Position of measurement, mm	
В	Base, mm	
MIN	Bottom of measuring range, mm	
мах	Up of measuring range, mm	
x	Position of indication. A – Indication is at the side of side supports (figure A), B – Indication is at opposite side (figure B)	
вт	Bluetooth presence*	
* The gauge with Bluetooth can work in autonomous regime and together with RF303 PDA or PC, with		
measurements saving in database. Example: IDK-70/250-850/1260-A-BT. Position of measurement – 70 mm; base of the gauge – 250 mm; bottom of		
measuring range – 850 mm; up of measuring range – 1260 mm; position of indication – A,		
BT – Bluetooth presence.		
	Fig. A Fig. B	

MEASUREMENT INSTRUMENTS FOR RAILWAY TRANSPORT













