

SP 125 N

The SP 125 N is CNC special-purpose measuring machine designed for precise wheelset wear measurements. Automatic system inspects the conditions of wheel tread surface, brake discs and axles.



The following measurements can be taken before and after machining:

- Wheelset back-to-back distance
- Wheel tread diameter and width
- Wheel rim thickness and width
- Radial and axial run-outs
- Flange thickness and height
- qR inclination
- Distance wheel rim inner faces to axle dust-shield collar (C-C' dimension)
- Depth of wheel tread wear
- Depth of flat spots on wheel tread

TECHNICAL SPECIFICATIONS		SP 125 N
Track gauge	mm	1435 ⁽¹⁾
Min. wheel tread diameter	mm	600
Max. wheel tread diameter	mm	1250
Max. difference of flange diameters	mm	8 ⁽²⁾
Max. length of wheelset axle	mm	2600 ⁽³⁾
Min. length of wheelset axle	mm	1720 ⁽³⁾
Rapid travel	mm / min	5000
Max. weight of wheelset	t	3

⁽¹⁾ – Another track gauge to be agreed upon.
⁽²⁾ – For centre holes diameter of 12 mm.
⁽³⁾ – For track gauge of 1435 mm.

Laser Measurement System

The laser measurement system for wheelset is designed for monitoring of wheel profile wear. The degree of wheel profile wear is determined on the base of a virtual picture of wheel surface created from the measured data.

The system consists of the modules installed in tracks and providing the following functions:

- Vehicle and wheelset identification
- Data collection and processing with optimisation of wheel profile machining
- Full communications between the system and Underfloor or Above floor Wheel Lathe
- Wheel measurement carried out on a vehicle running with the maximum speed of 10 kmph



The offer elaborated in cooperation with the company P.U.T. GRAW Sp. z o.o., a supplier of track and rolling stock wheel measuring systems.