Complex for automatic inspection of locomotive wheelsets geometric parameters “COMPLEX-L”

Intended application

- Checking parametric geometry features, diagnosing wear and defects of locomotive wheelsets
- Determining endurance and registering faults of locomotive wheelsets.

Measured parameters

- Flange thickness and steepness
- Diameters and variation of diameters in a wheelset, a section and a locomotive

Station equipment and trackside assets of COMPLEX-L

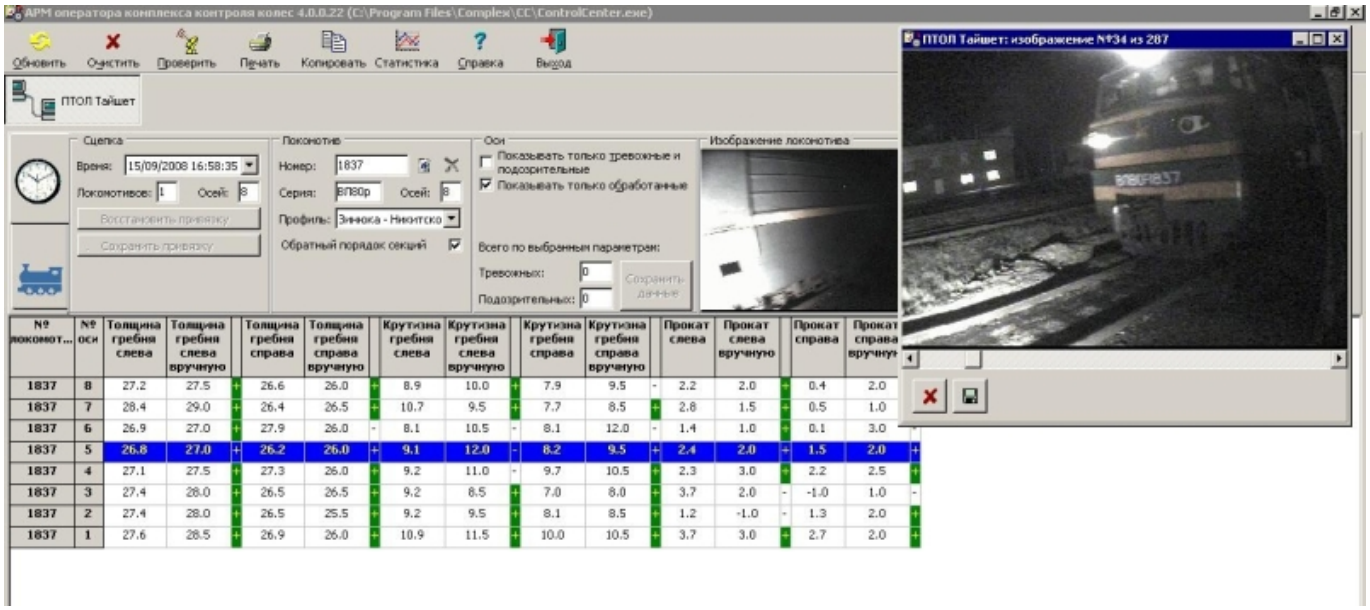
Principle of operation is based on noncontact laser inspection of locomotive wheelsets profile while passing an inspection station.

Technical characteristics

Locomotive speed while passing an inspection station	**from 5 to 15 kph**
Linear measurement error	**0.5 mm**
Operating temperature range	**-50 to + 50 ºC**
Trackside equipment enclosure	**Dust and moisture proof with thermostabilization**
Power supply voltage	**220 V**
Power consumption	**Up to 5 kW**

Railway vehicles **can be identified** using the supplied video cameras or in the automatic mode using information provided by the automatic vehicle identification system.

Measurement results are stored in the database and transmitted using TCP/IP to operator workstations at the locomotive maintenance depot, to the assigned locomotive depot and the automatic control system.



The dialogue box of the operator's workstation at a locomotive maintenance depot

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CNT Ltd.

- Manufactures and performs test checks of COMPLEX-L systems
- Undertakes delivery, mounting and on-site launch operations
- Provides training for maintenance and operating personnel
- Performs warranty service
- Offers post-warranty service under additional agreements
- Performs adjustments of the equipment to operational conditions