

WAYSIDE INSPECTION DEVICES INC.

Truck / Bogie Optical Geometry Inspection System

Features:

- Identifies skewed and "warped" trucks.
- Identifies misaligned trucks.
- Identifies trucks with incorrect wheelset tracking.
- Identifies trucks that wear their wheels asymmetrically ("diagonal wheel wear") even before severe wear sets in.
- Identifies trucks displaying lateral instability "truck hunting" (TBOGI-HD configuration).
- Simple to install and maintain.
- Demonstrated high reliability record, low cost of ownership.
- Non-contact sensors installed at a safe distance from passing trains do not interfere with track maintenance work.
- Installed on tangent track, no need for special track layout.
- Measurements are insensitive to changes in weather and rail lubrication conditions.
- Measure at train speeds up to 250km/h.
- Laser based sensor provides high accuracy wheelset angle of attack and tracking position information.



T R U C K P E R F O R M A N C E M O N I T O R I N G

Acting on data produced by the TBOGI can:

- Enhance safety.
- Reduce wheelset replacement, prolong truck component life.
- Reduce rail wear.
- Reduce fuel consumption.
- Optimize maintenance resources.

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Wayside Inspection Devices (WID) is the world leader in truck performance monitoring using non-contact optical systems. WID pioneered the design and development of the Truck/Bogie Optical Geometry Inspection (TBOGI) system, an advanced patented truck performance monitoring tool that overcomes the inherent limitations of traditional contact technologies to enable the characterisation of truck defects and the implementation of uniform defect thresholds.

The TBOGI accurately measures, by optical means, angle of attack and tracking position of wheelsets passing at speeds up to 250km/hr. This information is immediately processed on site after the passage of a train. The data files can be automatically transmitted to another computer and be tailored to be easily incorporated in the user's database of choice.

Our new TBOGI-HD configuration detects laterally unstable trucks ("truck hunting") in addition to TBOGI truck performance monitoring. The TBOGI-HD thus provides from a single tangent site installation comprehensive and unparalleled truck performance monitoring capabilities.



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