

BOGIE CONDITION MONITOR



Know what to repair and when

TBOGI-HD is a new generation of wayside systems designed specifically for the harsh environments of freight and heavy haul railways. Using modern technology and an advanced array of geometry metrics, TBOGI-HD delivers unparalleled in-service assessments of individual bogies and wheelsets. The TBOGI-HD system is a cornerstone of efficient wheel-rail interfaces and an essential component of cost-effective railways.

TBOGI-HD SYSTEMS ENABLE CUSTOMERS TO:

- **Gain twice the wheel life.** TBOGI-HD pinpoints the source of accelerated wear issues. Early corrections yield longer wheel life and lower maintenance costs.
- **Stop premature rail wear, especially through curves.** TBOGI-HD identifies the specific defects responsible for characteristic rail wear. Railways can prioritise interventions and target the issues that are most prevalent in their network.
- **Improve fuel/energy efficiency.** TBOGI-HD quickly singles out any bogies experiencing higher than normal rolling resistance (up to 40% higher).
- **Reduce risk.** TBOGI-HD helps railways reduce the risk of unscheduled maintenance and derailment. Prompt attention to the most severe defects improves safety and lowers risk exposure.
- **Reveal hidden root causes.** TBOGI-HD offers unique insights for effective maintenance and uncovers issues other monitoring systems can't spot. Railways are better equipped to take smart, targeted action to end repeated maintenance costs.



Wayside Inspection Devices (WID) is a globally trusted producer of trouble-free, accurate measurement systems with proven performance in railroad environments around the world. WID's TBOGI system is widely recognized as the technology of choice for reliable bogie condition monitoring.

TBOGI-HD provides highly accurate, laser-based measurements.

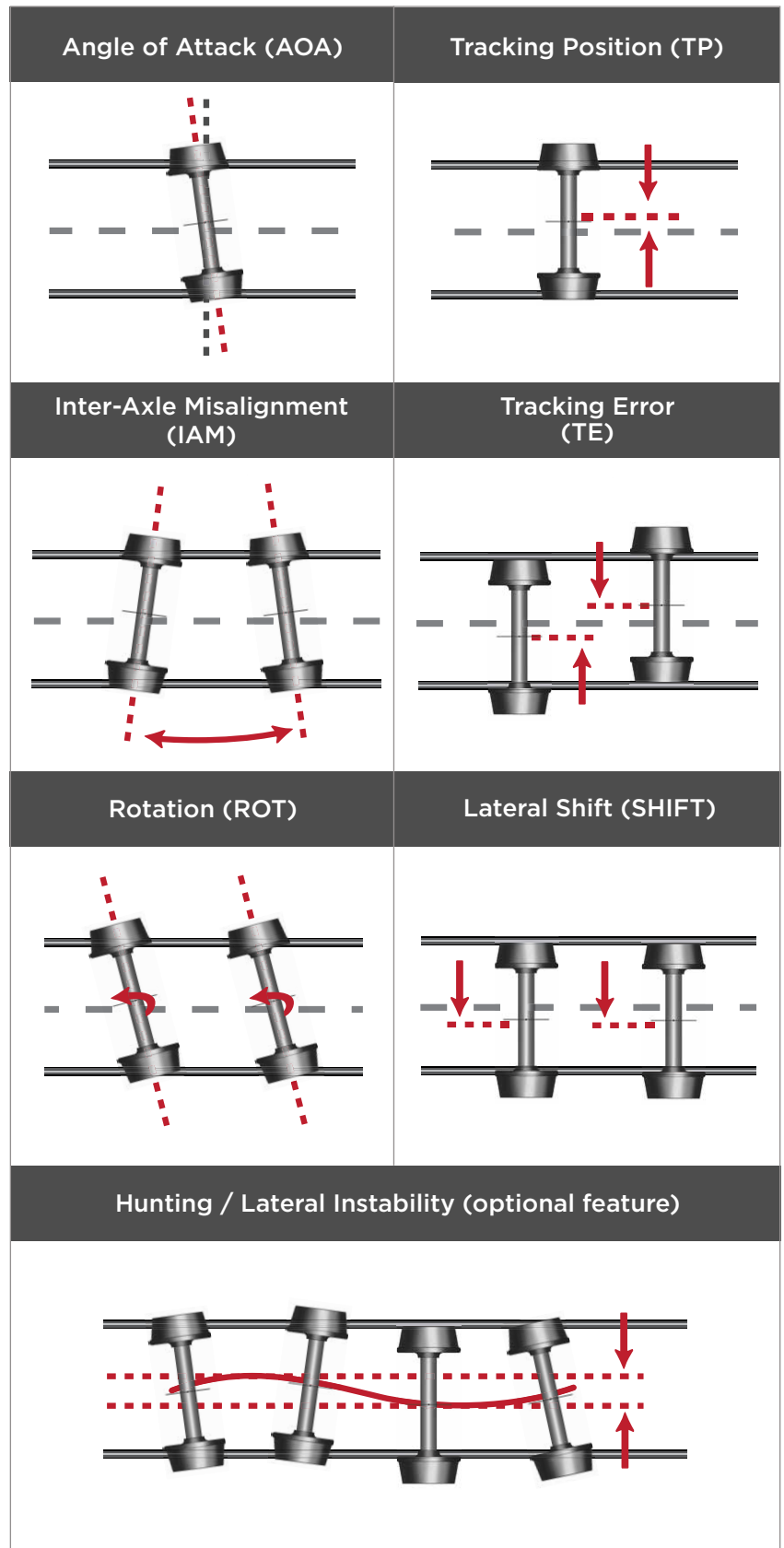
TBOGI-HD reveals the presence of compromised wheel-rail interfaces causing accelerated wear to wheels and rail. The TBOGI-HD system offers a unique, cost-effective method for capturing the condition of rolling stock and diagnosing precisely when - and why - issues emerge, before they become costly.

DATA & MEASUREMENTS

- Laser-based collection of highly accurate measurements for each wheelset of trains passing at speeds up to 300 km/h
- Comprehensive data tools, easily accessible via browser-based interfaces and a dedicated application for mobile devices
- Clear defect alerts and steps for targeting the right components, not only the obvious ones
- Accurate measurements regardless of changes in weather, train configuration, and rail lubrication conditions
- Identification of bogies with defective stability (hunting)

INSTALLATION

- Optimized design for the harsh environments of freight and heavy haul railways, including remote, dusty, or extreme temperature locations
- Tangent track installation means no need for special track layout
- Installed at a safe distance from passing trains; will not interfere with track maintenance work
- Simple to install and easy to maintain
- Proven to be railroad-tough, highly reliable, and cost-effective



**WAYSIDE
INSPECTION
DEVICES**

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