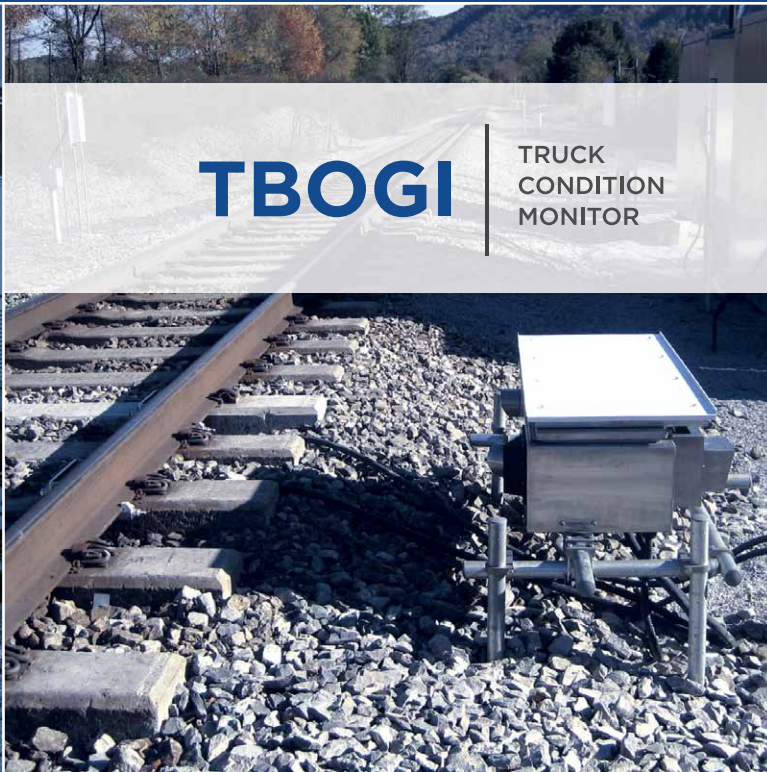


TRUCK CONDITION MONITORING



Know what to repair and when

The patented TBOGI technology developed by WID inspects rolling stock in motion to monitor the in-service condition of the trucks and their wheelsets. Using TBOGI technology to help direct maintenance resources will reduce the stress state of your railway operation.

TBOGI's comprehensive data set provides precious insight in determining the root cause of problem trucks.

TBOGI SYSTEMS ENABLE CUSTOMERS TO:

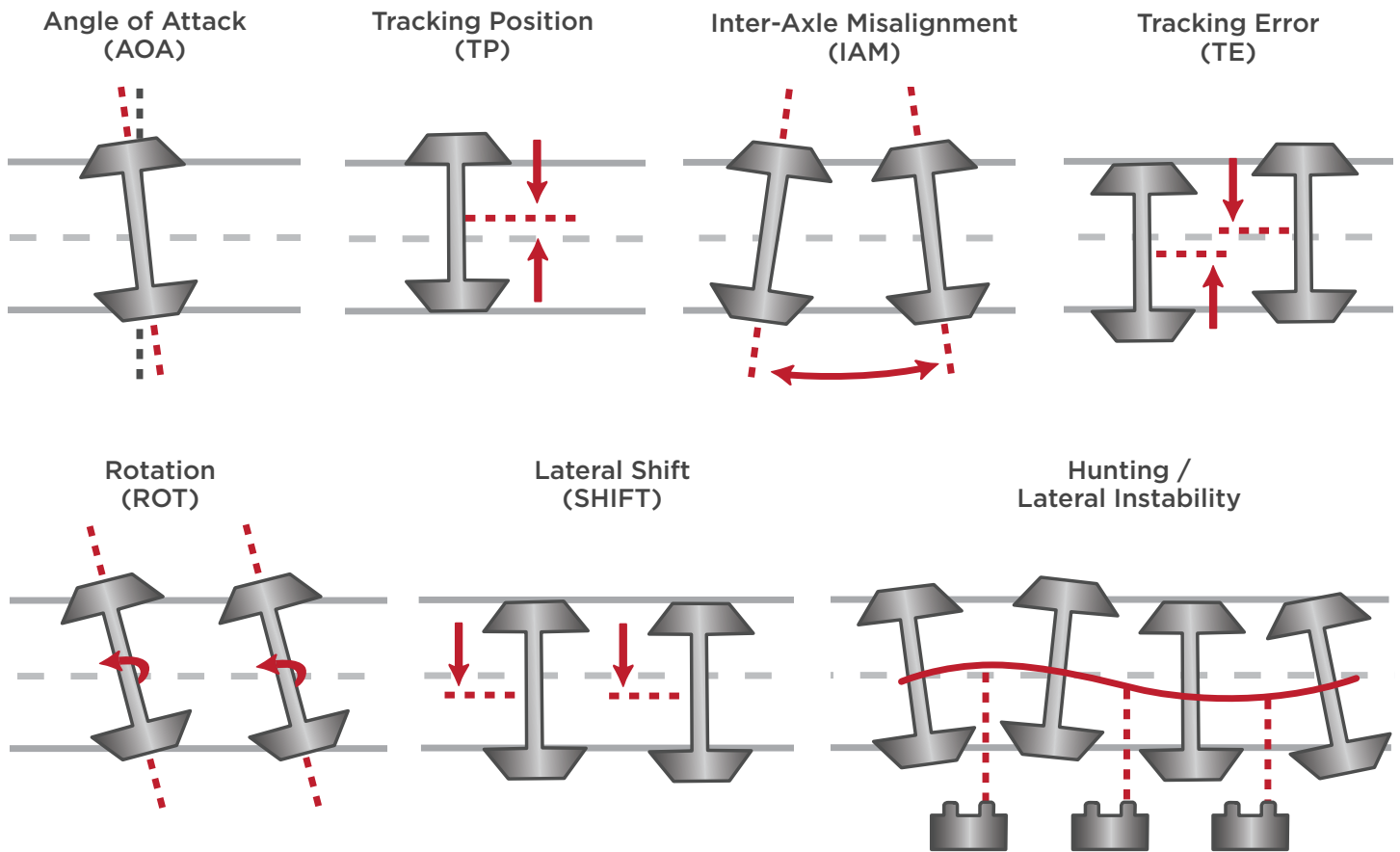
- **Reduce wheelset wear, prolong truck component life.** TBOGI identifies problem trucks early before accelerated and costly wear sets in. TBOGI-HD also identifies laterally unstable trucks (hunting) that further accelerate wear of truck components.
- **Reduce rail wear, rail-grinding frequency.** Accelerated wheel wear implies accelerated rail wear. Correcting geometric faults identified by TBOGI will reduce the rail wear rate and grinding requirements.
- **Reduce fuel consumption.** Correcting problem trucks identified by TBOGI will reduce their rolling resistance, which translates into fuel savings.
- **Enhance safety.** TBOGI identifies trucks with geometry issues (skewed, misaligned, improper tracking) that pose an increased derailment risk.
- **Direct maintenance.** TBOGI's comprehensive data set provides precious insight in determining the root cause of problem trucks.

WID has earned an excellent reputation for producing trouble-free, accurate measurement systems, well adapted to the harsh railroad operating environments around the world. TBOGI is widely recognized as the technology of choice for truck condition monitoring. TBOGI customers include passenger, freight and heavy haul railroads around the world.

TBOGI is a laser based system that provides high accuracy measurements of axle and truck geometry that reflect the health state of the truck.

TBOGI FEATURES:

- Laser based, provides high accuracy Angle of Attack and Tracking Position measurements of each wheelset of a passing train at speeds up to 300 km/h.
- TBOGI-HD also identifies hunting trucks / lateral instability.
- Installed on tangent track, no need for special track layout.
- Non-contact sensors installed at a safe distance from passing trains do not interfere with track maintenance work.
- Measurements are immune to changes in weather and rail lubrication conditions.
- Simple to install and maintain.
- Demonstrated high reliability record, low cost of ownership.



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