

KinetiX

Inspection
Technologies



TruckView[®]

TRUCK (BOGIE) INSPECTION

The TruckView system uses high-speed and high-definition imaging to provide high resolution images of every truck (bogie) for inspection and measurement.

Every truck (bogie) is viewed from at least two angles, top and bottom, to provide a complete and reliable assessment of condition. TruckView inspects many features of trucks (bogies) including fasteners, side frame condition, bearings and related components, friction wedges, springs, and more.



TRUCKVIEW SYSTEM

Acquired images are processed by a set of image processing algorithms to assess the truck (bogie) components' condition and to report measurements and defects. The TruckView imaging system and processing algorithms are designed to operate in all ambient light and weather conditions.

Processed data and images from the TruckView system are integrated into the CMMS™ (Condition Monitoring Management System) software to provide web-based access for data visualization, alarm management, and data analytics. Automated alarms on the identified defects can be used to facilitate condition based maintenance workflows.

The system's scanner boxes are installed on specifically designed aluminum truss towers, that are mounted on foundations on each side of the track.

The TruckView system detects faults and can identify indicators that may lead to safety incidents. Automating inspections with TruckView helps mitigate incidents and improves safety.

MEASUREMENTS

Fasteners

Spring inspection to detect broken or missing springs

Heavy load imbalance

Bearing cap and cap bolts

Side frame mismatch

Bearing adapter

Bearing adapter wear plate

Bearing keeps

Sand hose position and activators

Wedge detection and height measurement

Individual and average wedge rise measurement

Hopper door

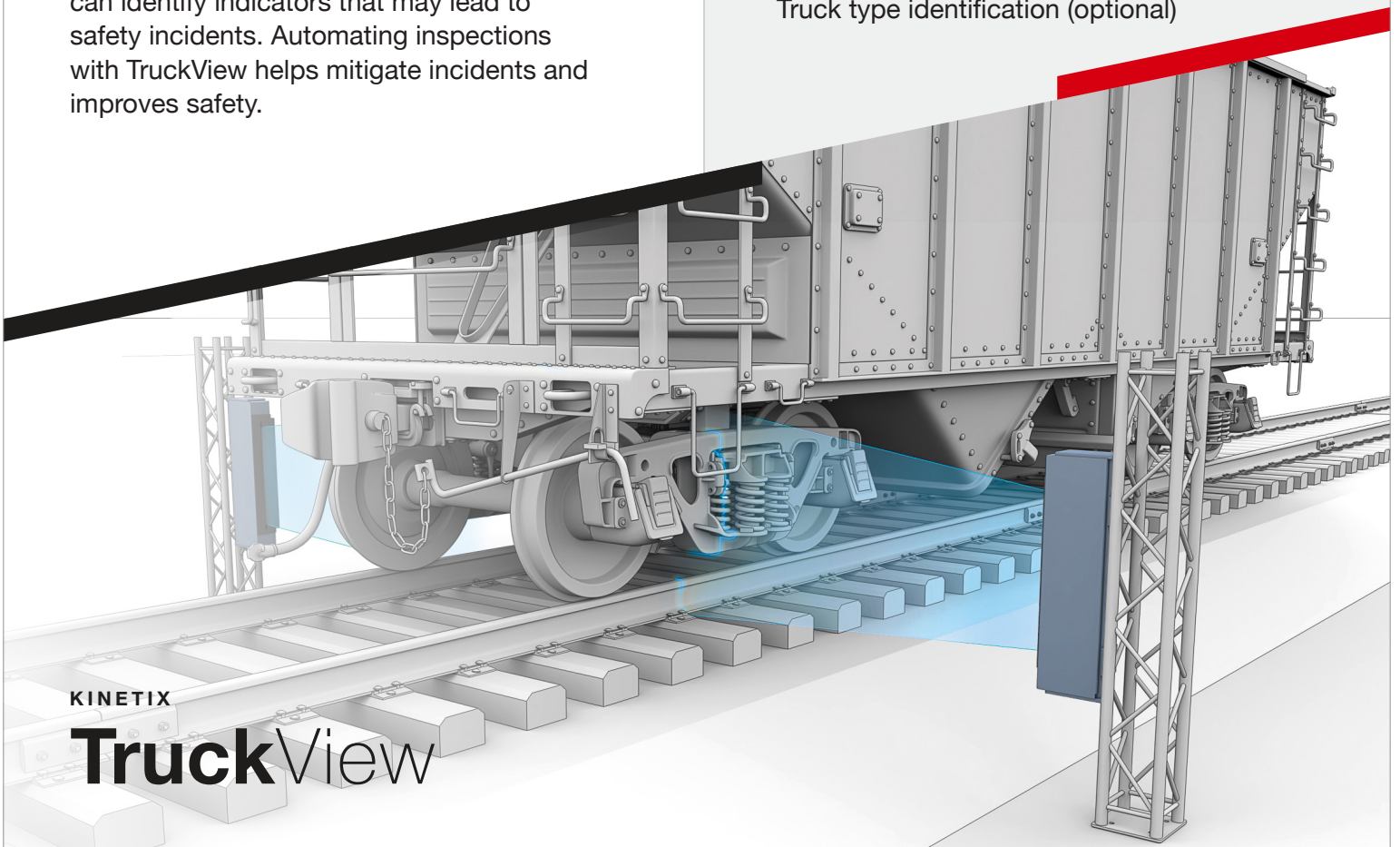
Earth straps

R-clips Wedge height

VTA valve inspection

Sliding wheel detection (optional)

Truck type identification (optional)



KINETIX

TruckView

SYSTEM FEATURES

Bi-directional system

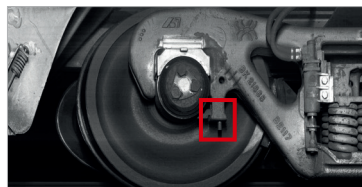
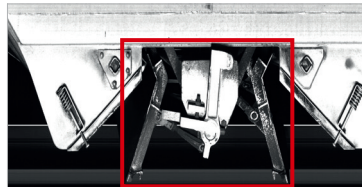
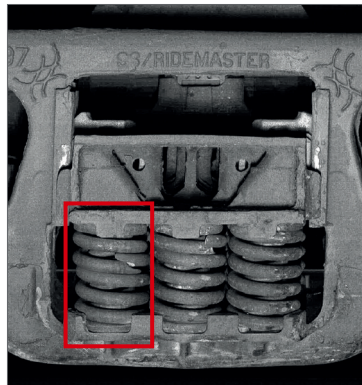
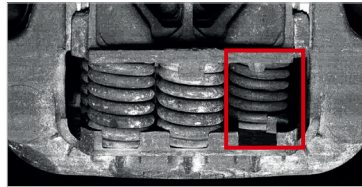
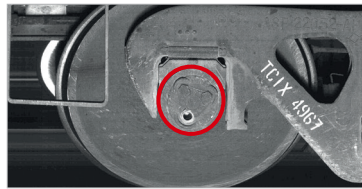
Inspection and measurement at mainline operational speeds

Operates in extreme environments

Installed off track on tower or pole (concrete or steel base) with no track interference

Easy maintenance

Automatic defect reporting



SOFTWARE FEATURES

Digital image acquisition/processing

AEI (RFID) integration

Automatic reporting

Web-based database/visualization (with CMMS™ (Condition Monitoring Management System) or TrainWatch™ software)

Remote monitoring/control

Depending on the rolling stock types and requirements, the system's measurement outputs may require optimization or customization.

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