

Your Vision, Our Future

FOCUS PX Application



Automated Train Wheel Inspection









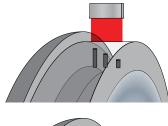
Code Compliance

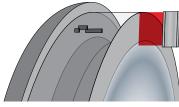
- ISO 5948
- NF EN 13262
- AAR

Train Wheel Inspection AAR, ISO, and EN Compliant

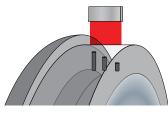
Railway transport continues to play an important role in the transport industry due in large part to its speed, reliability and affordability. Integrity is key to maintain this viability and ensure train safety. Stringent regulations are imposed on the inspection of train wheels and axles in both the manufacturing and service sectors. To meet and exceed these strict criteria, Olympus provides the power and flexibility of its FOCUS PX/FocusPC[™] package to experienced and knowledgeable integrators, who are then able to deliver fully code-compliant inspection systems.

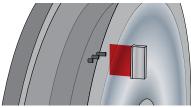
Manufacturing Inspection





In-Service Inspection





Requirements

Radial Defects:

- 2.0 mm FBH for high speed train wheels.
- 3.2 mm FBH for freight train wheels.
- Various depths from tread surface.

Axial Defects:

- 2.0 mm FBH for high speed train wheels.
- 3.2 mm FBH for freight train wheels.
- Various depths from rim surface.

Requirements

Radial Defects:

- 1.0 mm FBH for high speed train wheels.
- 2.0 to 3.2 mm FBH for freight train wheels.
- Various depths from tread surface.

Axial Defects:

- 3.0 or 5.0 mm FBH in the web section.
- Up to 3 defects at different depths.

Performance

- Inspection time down to 30 s/wheel for freight train wheels.
 - Complete tread and rim areas coverage.
- Inspection time down to 3 min./wheel for high speed train wheels.
 - In-depth tread, rim, hub and flange coverage.

Code Compliance

- EN 13262
- ISO 5948
- AFNOR 09-340

Performance

- Inspection time down to 30 s/wheel for freight train wheels.
 - Complete tread and rim areas coverage.
- Inspection time down to 3 min./wheel for high speed train wheels.
 - In-depth tread, rim, hub, and flange coverage.

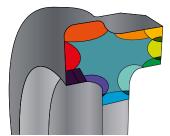
Code Compliance

- ESR 0331
- EN 13262
- AAR M107-84

Optional High Speed Train Inspection Requirements

Multizone Coverage

Specific code requirements subdivide the rim area into zones requiring additional coverage.



Sub Bore-Hole Area Inspection

Some codes require the inspection of the area under the bore holes, which is achieved with a Pitch-Catch configuration.



High-Performance Package

Experience the power of the FOCUS PX[™] acquisition unit, the flexibility of the FocusPC software, and the customization capability provided by the software development kits (SDK). These three components work in unison to maximize the performance of train wheel inspection systems.

FOCUS PX

Use the FOCUS PX to build fast and efficient inspection systems by benefiting from the high end specifications of this powerful acquisition unit.



Up to **30** MB/s data throughput per FOCUS PX





Up to

Automation and Customization

Fully automate your inspection system to reduce the cycle time per wheel and enhance detectability.

Customizable User Interface

Create your own specially designed user interface that optimizes and streamlines your system's performance.

FocusPC and SDK Features



Custom application

FOCUS PX

Probes and integration

- Advanced multiprobe and multigroup management for in-depth tread, rim, hub, and flange coverage.
- Dedicated user interface based on train wheel inspection requirements.
- External data retrieval capability for customized data presentation and processing.
- Fully automated and operator-free inspection systems using the SDKs.



Worldwide Partners

Olympus has a wide network of trusted partners that can provide you with a high-end solution for your inspection needs.



Developing a new solution?

Contact Olympus at: Info.IntegratedInstruments@olympus-ossa.com for special Integration Packages including the FOCUS PX, FocusPC, FocusControl and FocusData SDK along with customized training sessions and support.

Manual Inspection

Olympus offers an extensive portfolio of manual inspection products that can be used for prove-up testing to complement your automated inspection solution.



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