

Stationary Wheel Inspection System



Key Features

The Stationary Wheel Inspection System includes the following key features:

- Multiple inspection stations, with two mechanical test heads per station; one dual array per test head
- 24-channel digital processing
- Ultrasound couplant delivery system with optional water recovery
- Computer with real-time data collection

Provides real-time assessment of wheel flaws.



Inspection test head mounted on an underfloor profiling machine

Real-time assessment of wheel flaws

The Stationary Wheel Inspection System consists of multiple inspection stations, with two mechanical test heads per station.

As rail wheels are passed over the inspection stations on flange-bearing track, the system sprays couplant onto the lower surface of the wheel using a fine mist. The inspection probes assess the integrity of the wheels as they rotate against the inspection head.

The system then provides real-time assessment and reporting of flaw types, flaw sizes, and flaw locations that appear in and across the tread and rim of the wheel.

Multiple configurations available

The Stationary Wheel Inspection System is available in multiple configurations to meet your needs. For example, we can incorporate your system into:

- A maintenance/wheel shop facility
- Wheel truing/profiling machine operations

When the Stationary Wheel Inspection System is integrated into a profiling process, you have the ability to inspect the wheel either before or after the profiling operation. Your rolling stock engineering group gains the flexibility needed to find defects before they cause broken wheel derailments.

Nordco has partnered with Simmons Machine Tool Corporation to integrate the Stationary Wheel Inspection System with the Simmons Stanray and Hegenscheidt U2000-400 underfloor wheel profiling machines.



Use your smartphone to scan this code for more information.



Section of flange-bearing track

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