

Automated Train Axle ISI

Introduction

WesDyne Sweden has delivered the leading systems for train axle in-service inspections on the Swedish market since the mid 1980's. The equipment has proven to be very robust and reliable, the first system delivered is still in operation (June 2011).

Current systems are semi automated, one-man inspection devices, with the next generation bringing automated, state-of-the-art data collection systems to the market at comparative prices.

Description

The Axman (Automated Axle Manipulator) constitutes the next-generation automated ultrasonic inspection system for train axles, allowing for a full inspection of tangential cracks even under bearings and wheels of holed axles.

The Axman ISI system has several attractive features:

- Time saving, up to 8 times faster than manual systems.
- Multiple UT channels to be run simultaneously.
- Storage of inspection data
- Integrated ultrasonic system with possibility for A-, B- and C-scan
- Compatible with all ultrasonic data collection devices currently on the market (June 2011)
- Accurate indication/defect positioning
- Off-line evaluation possible
- Pre-programmed, motorized scan sequences
- Modular; different axle dimensions irrelevant
- Inspection under wheels and bearings possible
- Low weight and easy handling



Current, semi automated, inspection of train axle with WesDyne equipment

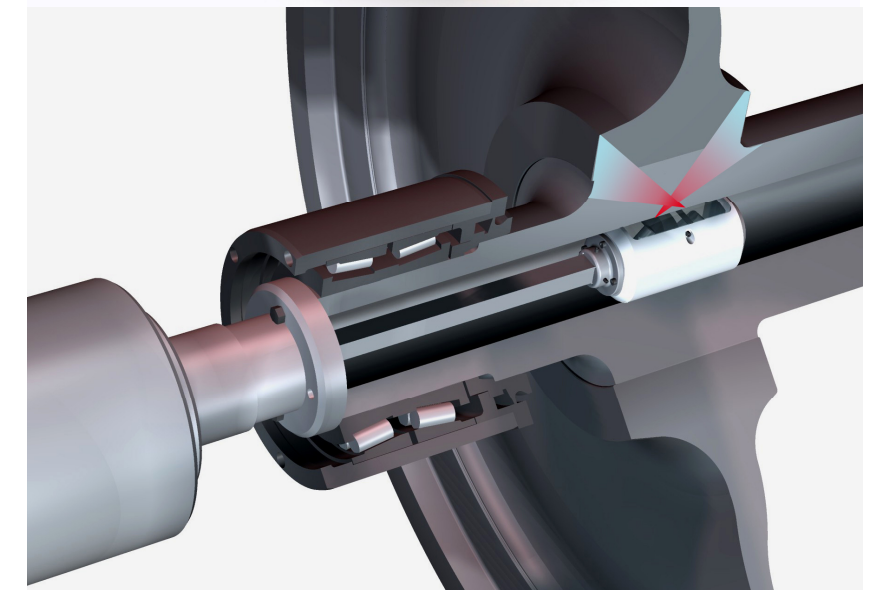
Technical data

Weight (typical)	15 kg
Length (overall)	2 600 mm
Number of axis	2
Operating range, circumferential	No limit
Axial speed	0 – 90 mm/s*
Connections	110-230V/10A, 50/60 Hz
Operator interface	PC – standard type Ultrasonic system** WILMA***

*: Governed by inspection procedure

** : End-user choice

***: Proprietary WesDyne Sweden control software



AxMan Automated Mechanized Inspection System for train axles

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