NORDCO’S PORTABLE INSPECTION

PRODUCT LINE OVERVIEW

HANDTEST
- Single-channel digital ultrasonic flaw detector
- SiteScan 150 with A-Scan
- 70° & 37.5° Wedge Transducers
- 0° Transducer
- Finger Tip Transducers

MULTIPASS
- Single-channel digital ultrasonic flaw detector with 6” inspection wheel
- SiteScan 150 with A-Scan
- Manual couplant delivery

ONEPASS
- 12 channel HD, battery powered, digital ultrasonic flaw detector
- SmartFlow Couplant delivery
- Onboard Hand Test Kit with wireless digitizer
- Getac F-110 Tough Tablet, Win 7
- Common RailTruck software with A-Scan, B-Scan, Rec Engine & full Audit Capability
- Smart Tracking of GPS locations
- Included Accessories & transportation options

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Nordco’s innovative, portable solution for manual rail inspection ideal for **yards**, **crossings** and **plug rail** applications.

We bundled our latest sensing and processing technologies in a compact rail test unit to bring our leading detection capabilities to manual testing applications.

The ergonomically designed OnePass interrogates rail integrity with eleven transducers and represents defects in a B-Scan view. Defect verification is supported with our integrated hand test kit and on board digitizer.
ADVANCED HD DIGITAL SYSTEM

1. Getrac F-110 tough tablet with touch screen, integrated GPS, 8GB RAM, 128GB SSD, 4G LTE, WiFi connection to OnePass & Flexible, Quick Mount Holder
2. Common RailTruck v7.3 Inspection software runs on Windows 7
3. XL 9-11 with direct encoder & quick service mount
4. 12 Channel Nordco Digital UT processor; technology identical to Rail Truck

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COMMON SOFTWARE

1. A-Scan & Digital Scope
2. B-Scan with Defect tagging
3. Recognition Engine & Context View
4. Project & Defect tracking
5. Pause Test feature
6. SmartFlow Couplant control
7. Audio feedback
8. Wireless communication
9. GPS tracking of OnePass & Defects
10. Defect Iconing Toolbar

No extra training needed!
Same software runs on OnePass and Nordco’s Rail Trucks
PAUSE TEST

Maintain continuous test files when temporary Interruptions are necessary

1. Test is in progress
2. Train approaches; need to evacuate rail
3. Mark current location on rail & press light blue pause test button
4. Clear Rail until train passes
5. Setup on same location & press play button to continue current test
**SMARTFLOW COUPLANT DELIVERY**

1. **Built in couplant tank capable of holding 5 quarts of liquid**
2. **Software controls when couplant is applied to the wheel and adjusts flow depending on operating and environmental conditions**
3. **Spray nozzle optimizes couplant application on the track**
**ERGONOMIC**

1. **Detachable side handle** mounts left or right for more convenient pushing when walking next to the rail.
2. **Push handle height adjustable** via pull lever to accommodate ergonomic pushing for short to tall operators.
3. **Lift Handle** in front and under side for unit handling.
4. **Kick stands** support unit on ground or on track.
5. **Convenient retract lever** disengaging rail capture system.
ADAPTIVE RAIL CAPTURING

1. Light weight nylon guide wheels
2. Laterally spring loaded rail capturing system accommodates all rail weights and wear conditions
3. Automatically retracting rail guides for inspecting at switches and crossings
PLUG RAIL TESTING
INTEGRATED HAND TEST FEATURE

1. Integrated shelf contains hand test transducers & accessories
2. Quick Tablet Disconnect
3. Digitizer display with gain & gate adjustment
4. BNC connector for hand test transducer
5. Hand test wedge transducers
HAND TESTING
HAND TEST KIT

1. 1x 70° Transducer with Wedge
2. 1x 37.5° Transducer with Wedge
3. 1x 0° Transducer
4. 1x Finger Tip Transducer BNC
5. 1x Finger Tip Transducer Micro Dot
6. 1x MicroDot – BNC Adapter
7. 1x Coiled BNC-BNC Connection Cable
8. 1x Wedge Couplant
9. 1x Couplant Gel
10. 1x Custom Foam Insert
ACCESSORIES KIT

1. 2x 8.8” Transport Wheels & Axles
2. 2x Handle Extensions
3. 1x Hand Test Couplant Holder
4. 1x Spare Battery OnePass, 24V, 15Ah
5. 2x Spare Batteries F-110
6. 1x Dual Bay Battery Charger F-110
7. 1x Ultra Slim Keyboard with Bracket
8. 8x Rail Capture Locks (80 – 141 lbs)
9. 1x Essentials Toolkit
10. 1x Small Spare Parts

OnePass Battery Specifications
- Type: Lithium – Manganese (LiMn)
- 24 V, 15 AH
- 49 Lithium Cells – 3.7V 2200mAh
- Up to 1000 Watts
- 800 – 1000 Recharge Cycles
- 6.5” x 5.7” x 3.2” (165 x 145 x 81 mm)
- 4.9 lbs (2.2 kg)
OPTIONAL ACCESSORIES – BATTERIES

Nickel-Metal Hydrate Battery Pack
- Approved for air transportation
- 20% less capacity than standard Ni-Mn
OPTIONAL ACCESSORIES – SMALL CASE

Small Pelican Case with custom foam insert

- holds essential ONEPASS accessories and tools
- ideal for installation in dedicated vehicle
- L x W x D: 24.7” x 19.6” x 11.9” (627 x 498 x 302 mm)
- Fully Loaded: 40 lbs (10 kg)
OPTIONAL ACCESSORIES – OUTRIGGER

Outrigger Attachment
- ideal for long test runs for alignment support
- adjustable for narrow, standard & wide gage
- left and right side attachment
- quick mount
- additional telescoping stand
OPTIONAL ACCESSORIES – SHIELD

Rain / Sun Shield
- Protects touch screen from rain and snow
- Provides shade for better visibility during bright, sunny conditions
- Lightweight construction
- Easy attachment
- Supports quick tablet removal for hand testing
OPTIONAL ACCESSORIES – STAND

ONEPASS Vehicle Stand
- securely supports the ONEPASS in a service vehicle
- quick lock mechanism
- integrated bar for one-person wheel peeking
SHIPPING & TRANSPORTATION

1. Large Pelican case with custom foam insert
   - H x W x L: 51.1" x 27.5" x 22.8" (1296 x 699 x 579 mm)
   - Fully loaded: 190 lbs (86 kg)

2. Supporting Tools & Equipment
   - 1 gal (3.8 l) of wheel fluid
   - RSU filler pump & Gage
   - OnePass charger (120/220 V)
   - F110 Tablet chargers (12 V & 120/220 V)
   - Power cables and keyboard charger
CARDBOARD SHIPPING CONTAINER
- L x W x D: 24” x 24” x 70” (610 x 610 x 1778 mm)
- Fully Loaded: ~100 lbs (45 kg)
# SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
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<tbody>
<tr>
<td><strong>UT Signal Processor</strong></td>
<td>High-Definition, 12 Channel Digital Distance Resolution: 1/48” (0.5 mm)</td>
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<td><strong>Detector Technology</strong></td>
<td>XL 9-11Rolling Search Unit (RSU) Transducers: (2x3) 70°, (2) 45°, (1) 0° + (2) side lookers</td>
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<td><strong>Rail Capture</strong></td>
<td>Self-retracting, adaptive roller mechanism</td>
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<tr>
<td><strong>Computer</strong></td>
<td>Getac F-110 Tough Tablet Touch Screen, GPS, 8GB RAM, 128GB SSD, 4G LTE, WiFi</td>
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<td><strong>Software</strong></td>
<td>RailTruck v7.x Digitizer, A-scan, B-scan, auditable test record SmartTrack v1.x Asset Tracking &amp; GPS breadcrumbs</td>
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<td><strong>Couplant Capacity</strong></td>
<td>5 quarts with SmartFlow Technology</td>
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<tr>
<td><strong>Weight</strong></td>
<td>OnePass: 60 lbs (27.2 kg) - empty tank Tablet &amp; Holder: 6.6 lbs (3 kg)</td>
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<tr>
<td><strong>Operating Conditions</strong></td>
<td>20 to 100 °F (-6 to 38 °C ), light rain</td>
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<td><strong>Accessories Kit</strong></td>
<td>Included</td>
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<tr>
<td><strong>Onboard Hand Test Kit</strong></td>
<td>Included, 2.2 lbs (1 kg)</td>
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<tr>
<td><strong>All-in-One Transport Case</strong></td>
<td>Included, 190 lbs (86 kg) - fully loaded</td>
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<tr>
<td><strong>Options</strong></td>
<td>Small Tool Case, Cardboard Box, Vehicle bracket</td>
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PRODUCT LAYOUT

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