



RAIL MEASUREMENT  
SYSTEMS AND SERVICES



Using Holland's proprietary Argus® track measurement technology, we offer multiple applications to test your track condition.



Argus<sup>®</sup>, Holland's proprietary track measurement technology, provides great flexibility to deploy units under dedicated track inspection cars and other rail-bound platforms. Its modular design enables operators to replace environmentally sealed rail sensors and system units in the field easily, if needed, maximizing uptime. Argus<sup>®</sup> measures track geometry and rail according to FRA 49 CFR 213 Track Safety Standards and Transport Canada TP 11373E. Custom track geometry channels and defect configurations can be provided.

## TrackSTAR<sup>®</sup> Contract Testing

Holland's contract testing vehicles simultaneously collect data on track geometry, track strength (via proprietary split load axle system) and rail profile measurement to provide a comprehensive assessment of your track condition, providing insights on continued safe operation and helping to direct you to the most effective use of your maintenance and capital funds. Our TrackSTAR<sup>®</sup> fleet allows the flexibility to provide testing services to any Class 1, regional, short line, transit, passenger and industrial railroad throughout North America.



### 400-Series

These units are ideal for freight / heavy haul, passenger & transit, as well as short line railroads. These are the heavy loaded units in Holland's fleet of TrackSTAR<sup>®</sup> vehicles.



### 491 TTV

This transit testing vehicle (TTV) is designed specifically to accommodate unique conditions on transit systems such as variable gauge, tight clearance and more.



### 650-Series

These units are ideal for short lines as well as industrial facility tracks. Track geometry and rail profile measurement in a medium load package.

## Locomotive UGMS (Unattended Geometry Measurement System)

Holland's UGMS, also known as Autonomous Track Geometry Measurement System or ATGMS, redefines the economics of track testing by capitalizing on the superior measurement technologies of the Argus® system and mounting it to the underside of a locomotive. The truck-mounted system near the central axle of the locomotive truck captures the most stringent loaded track conditions and finds track issues not visible to the other platforms. In addition to geometry, rail profile is collected to generate rail cant, rail wear, base-to-height ratio, and gage face angle. The system utilizes locomotive power, reducing the overall cost and minimizing the number of components to maintain. Proprietary mounting and sensor protectors allow maintenance-free operation for a year. Machine-learning based algorithm eliminates false spikes to accelerate turnover time for geometry defects, reports are reviewed remotely by experienced TrackSTAR operators before the delivery to the customer.



## Portable Inspection Systems

These systems, equipped with Holland's Argus® track measurement technology, are usable under any conventional hi-rail vehicle with a standard trailer hitch receiver. Our suite of portable inspection systems is designed to be installed on any hi-rail equipment or vehicle to become a track measurement unit with a wireless connection between the Argus® system and an onboard tablet. These units feature a lightweight and foldable mounting design which comes with a convenient travel and storage case.



### Gauge Inspector

This system offers real-time gauge measurement with on-board alerts. This simple configuration takes just a few minutes to set up and calibrate. A GPS and encoder are not required.



### Track Inspector

This full geometry system has the ability to be quickly mounted, configured, and calibrated by one person. It includes a quick set-up encoder and GPS to measure, mark and record your data.



# Rangecam™

Track Inspection and Maintenance Planning Software

*Make the right decisions at the right time.*

**Rangecam takes data in its raw form, cleans it up, and makes it useful for our partners.**

- Viewing and reporting of track condition data including geometry, GRMS, rail wear, profile and rail flaws.
- Rail replacement and interactive visual multi-year replacement plans. Tie replacement planning with budget.
- Manages data from a variety of sources. Data alignment, auto-detect rail weights, calculate measurements. High-level reporting.

- Combines wheel and rail profiles to examine the wheel/rail interface. Monitor wheel wear rates and optimize truing.
- Rail grind planning. Grind templates and plans. Pre and post-grind analysis for grind quality assurance.



# Holland®

# LiDAR

powered by  Cordel

Holland's LiDAR powered by Cordel provides you with a range of data applications such as high definition video, track imagery, clearance validation, line of sight, site measurements, condition assessments and more. Make the most of track inspections by combining track geometry with LiDAR data inputs.

- Perform virtual site visits for dozens of use cases
- Street-view like navigation
- Network-wide coverage
- Compatible with all .laz, .las and imagery formats
- Sync with network linear reference family
- Integrate with existing enterprise GIS environments



Holland LP  
1000 Holland Drive  
Crete, IL. 60417

# Holland®

hollandco.com  
sales@hollandco.com  
708.672.2300