



RAIL MEASUREMENT
SYSTEMS AND SERVICES



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



Argus[®], 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[®] 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[®] 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[®] 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[®] 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.

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

Holland's Portable Inspection Systems are a lightweight, plug-and-play track measurement technology deployed from a conventional tow hitch receiver. Our adjustable hitch insert fits all standard hitches with no modifications. This feature eliminates the necessity of a dedicated hi-rail platform for the track measurement system. In other words, any available hi-rail platform with a hitch mount can be converted to an inspection vehicle. The portable systems can be operated by a single operator (weighs less than 50 lb.), deployed or removed within a minute, and stored and shipped with a luggage-size case. These systems can be folded up for highway travel without disassembling from the hitch receiver and folded back down to return to track measurement without calibration. Our new and improved Argus 2.0 system is designed to be more resilient in harsh environmental conditions.



Track Inspector

Track Inspector is a real-time track geometry and rail profile measurement system. Featuring a non-contact encoder, this system is available with three different software options: Manned Operation, Heads-Up, or Autonomous. The product package also contains a laptop with data collection and geometry exception reporting software as well as a tablet with a track feature or asset recording (event terminal). Users also have the option of a cellular modem with internet service for connectivity (data upload to Holland servers, remote connection by Holland engineers for technical support, data analytics, and more).



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.

