

**UGMS** 



## The track measurement platform you select impacts the data you receive and, ultimately, the decisions made that keep you running safely and efficiently.

Holland's Argus® Track Measurement Technology Suite offers the flexibility to deploy in a variety of attended and unattended configurations. The newest addition to the Argus suite is Locomotive UGMS – a locomotive-based autonomous track geometry and rail profile measurement system. Taking advantage of existing train routes, Locomotive UGMS provides continuous testing along critical network corridors while being integrated into revenue service.

## LOCOMOTIVE MOUNTED UGMS



## **Key Features of Holland's Locomotive UGMS include:**

- Most stringent loaded track measurement (FRA 213 geometry channels, rail profile and cant) provided with measurements taken nearby the locomotive truck center
- Load severity and mounting location identify geometry exceptions not visible to other systems (autonomous freight, inspection cars, hi-rails)
- Maximum rail profile coverage is provided at sharp curves since truck-mounted system follows the track centerline
- Unique mounting design requires no welding or drilling
- Cost-effective autonomous track measurement system utilizes locomotive power, GPS, non-contact distance measurement, and tachometer without compromising quality
- Most economical per mile loaded track measurement due to high utilization of locomotives (>100,000 miles/year)
- Proven one-year maintenance-free performance in North American heavy haul environment, including extreme weather conditions
- On-board defect generation allows for critical exception delivery within hours based on cellular connectivity
- Machine learning algorithms augment defect vetting

- Conventional bundle reports (executive summary, curve reports, defect summary, strip/brush charts), defect list, movement report, and movement map files are provided to the customers daily
- Historical geometry measurements such as TrackSTAR GRMS can be overlaid with the latest locomotive UGMS measurements

