

Portable Track and Rail Profile Geometry System



A New Perspective to Track Measurement

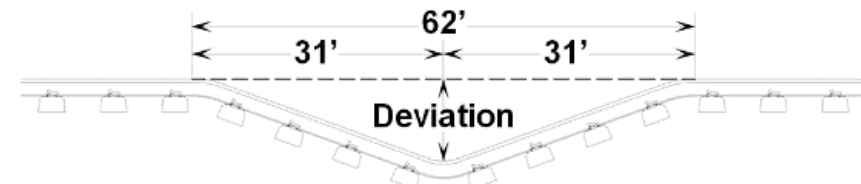
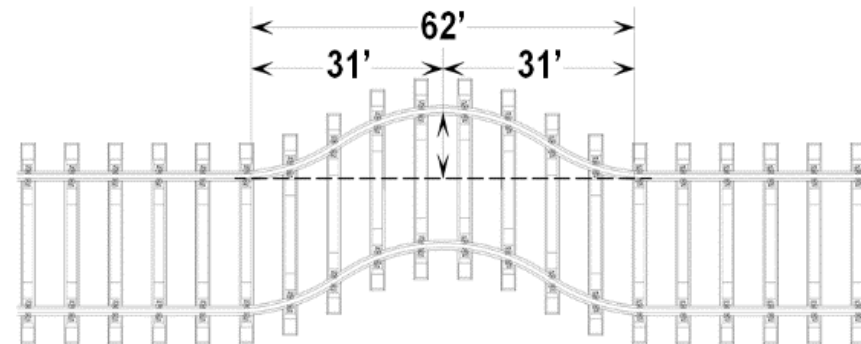
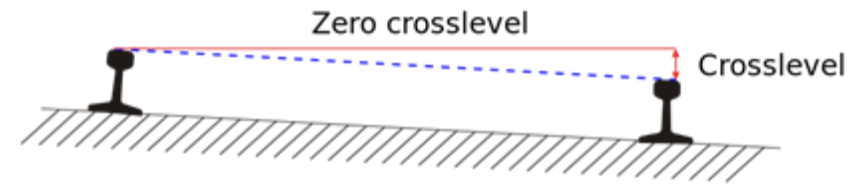
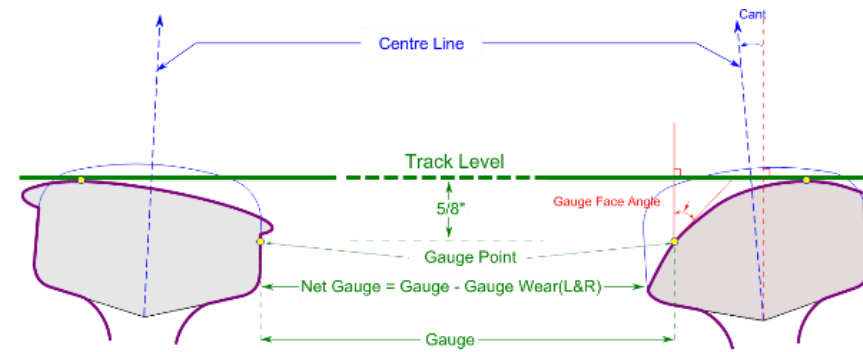


Railway Track Geometry

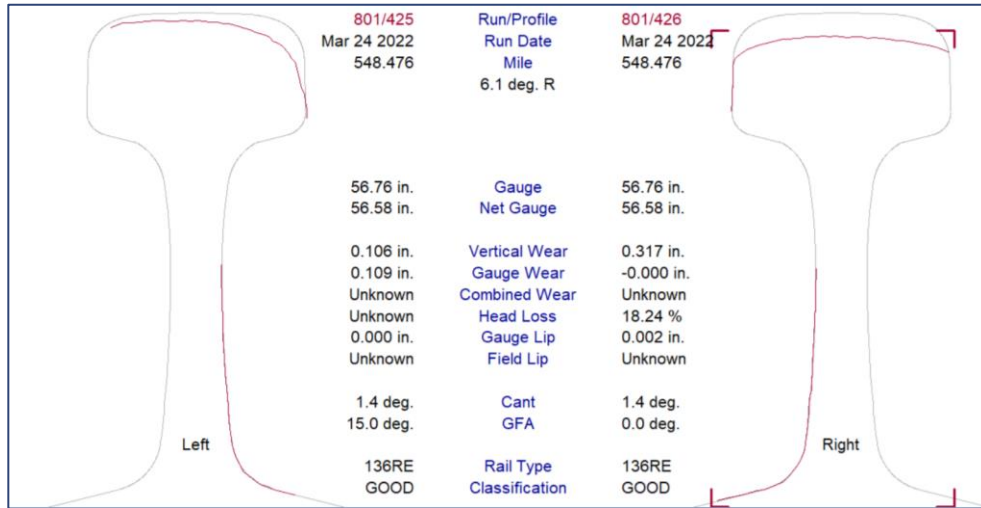


Argus®

- **Full track geometry, chord-based and space curve**
 - Gauge, Gauge Rate Change, Rail Cant Angle
 - Crosslevel, Warp, Twist
 - Degree of Curvature, Superelevation, Unbalance
 - Surface, Runoff, Dip
 - Alignment
 - More than 50 track geometry channels with varying wavelengths or chord lengths
- **More than 150 railway customers served since 1995**



Rail Profile Geometry



- Rail profile geometry is collected along with track geometry and reprocessed with Holland's Rangecam software

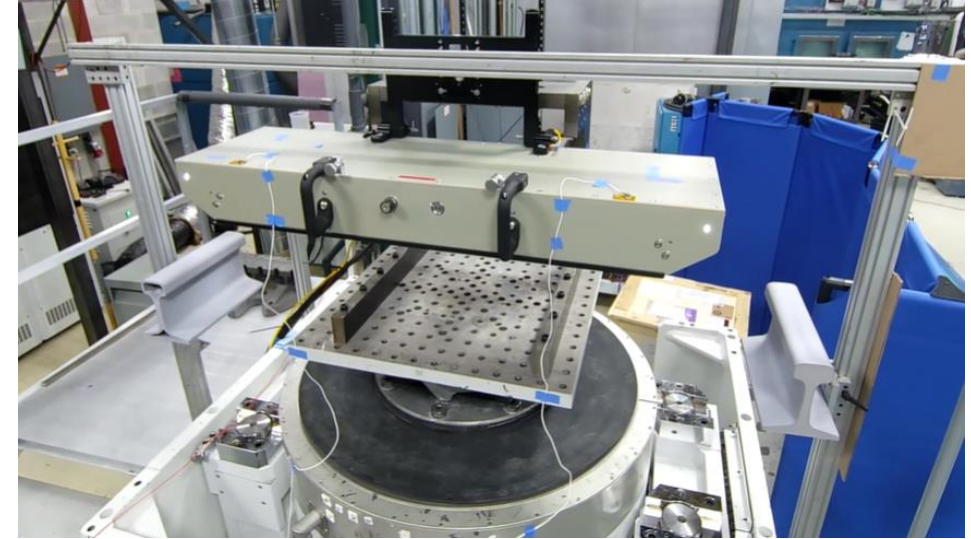
- Rail weight / type or classification
- Vertical wear
- Gauge face wear
- Total rail head wear and head loss %
- Gauge lip
- Gauge face angle
- Rail cant angle

- Holland's Rangecam software can overlay multiple rail profile measurement to generate trend analyses and make rail wear life predictions



Specifications

- EN 61373 Shock and Vibration Immunity
- U.S MIL-461G Electromagnetic Interference Compatibility
- IEC 60068 (-30C to +55C) Low & High Temperature Operation
- ISO 20653 Water & Dust Ingress Protection
- Pod weight < 50 lb (23kg)
- Steel mount, anodized aircraft aluminum body
- Operates from hitch power outlet 12V-36V
- Power consumption: Nominal : 24W, Max : 60W
- Measurement Specifications
 - *Sampling* : 0.3 m geometry, 3 m rail profile
 - *Resolution* : 0.01 mm geometry, 0.03 mm rail profile
 - *Repeatability* : ± 0.3 mm gauge, ± 0.5 mm crosslevel, ± 1 mm surface and alingment



Argus Track Inspector

Portable

- No wheel-mounted encoder
- Installed or removed within a minute
- Works with standard hitch-mounts
- Can be stowed when hi-rail is off the track (lasers are automatically turned off when it is stowed)
- Product package includes travel case, convenient for flight check-in or shipping



Plug'n'Play

- Powered through standard hitch outlet without additional power unit or modification to hi-rail (yellow cable in the picture)



Lightweight

- Designed for single-person operation, < 23kg



Operation Modes



Attended

- Preferred by track geometry personnel
- Real-time visualization and reporting
- Located measurements and defects by territory, mile/kilometer post and GPS

Heads-Up

- Used by any hi-rail operator,
- Only pre-defined defects are visualized through map view, visual and audible alert
- Real-time vehicle view on the map with respect to defect location
- Ideal for complimenting scheduled FRA 213 manual track inspection and other inspection technologies

Unattended (Autonomous)

- Used by any hi-rail operator
- Continuous test and autonomous operation with located measurements and defects delivered to the railroad

