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< Rolling Stock & Works Vehicles

# Harsco Rail

## Callisto Hy-Rail

### Interior Track Geometry Integrated with Hy-Rail Vehicle

The Callisto Hy-Rail track geometry measurement system allows for simplified track geometry measurements to be made from most standard hy-rail (road-rail) vehicles.

This compact system measures all FRA-required track geometry channels, and generates reports containing strip charts, curve tables and defect lists, according to FRA track class. Callisto is an independent system that can be

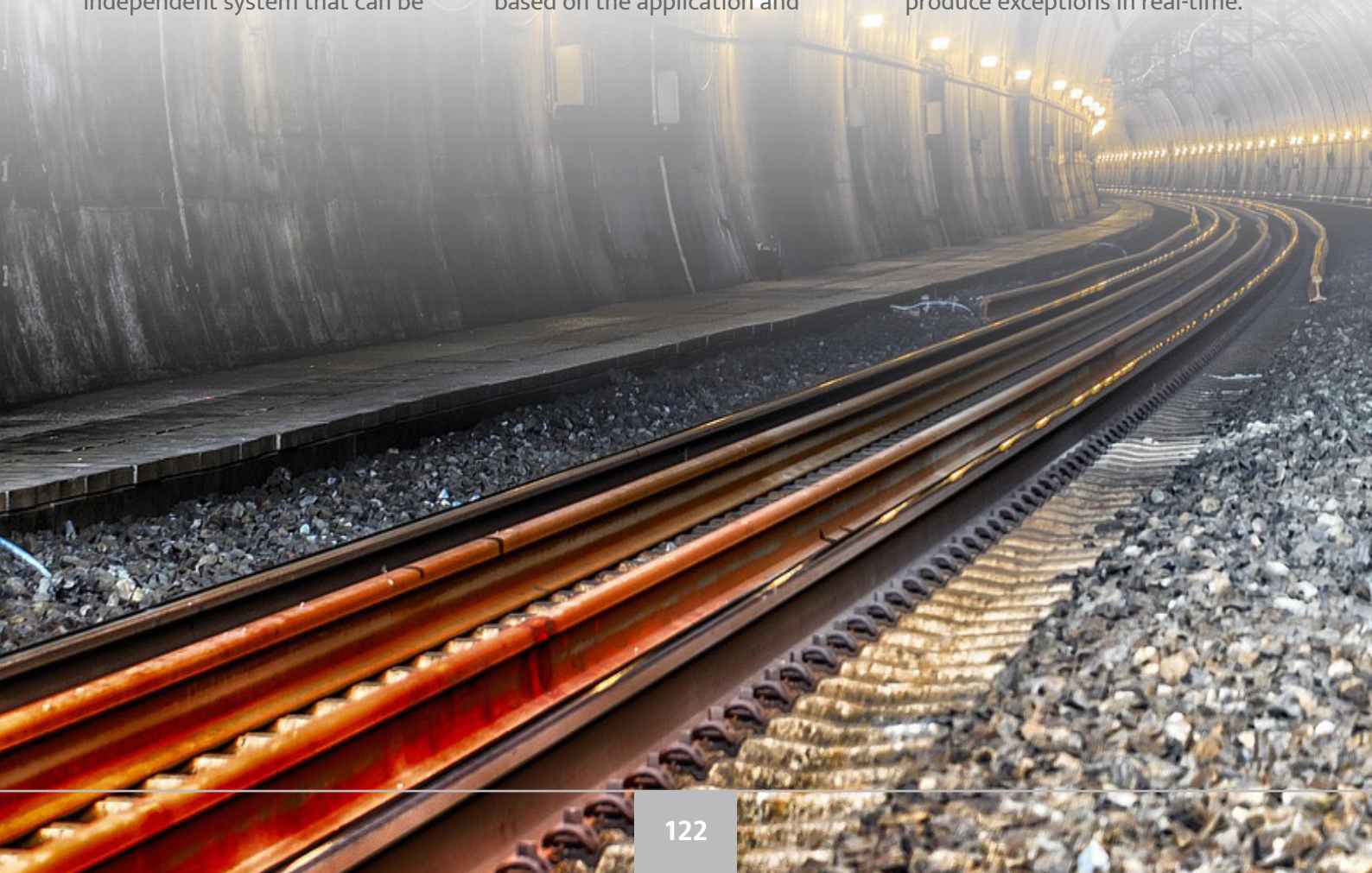
installed on almost any vehicle by utilising a standard receiver hitch or by a custom mounting design.

Callisto track geometry measurement systems incorporate an inertial measurement unit (IMU), a laser / camera-based gauge reference system and GPS within a rugged, compact package to accurately locate and measure the geometry of the track. Typical geometry channels are recorded based on the application and



*Callisto Hy-Rail*

can include: gauge, alignment, curvature, surface, cross-level, super-elevation, warp and twist. For inspection applications, track geometry channels are processed to produce exceptions in real-time.



## FRA-Compliant Exception Processing

### Specifications

- Measured track geometry data
- Gauge
- Alignment (left / right) curvature
- Surface (left / right) crosslevel superelevation
- Warp
- Twist

### Defect List Generated in Real-Time

- Type of defect
- Start and end milepost location
- Milepost of defect's highest deviation
- Maximum defect value
- Safety or maintenance defect classification
- Defects generated according to track class selected
- Defect list can be based on customer-specific thresholds



Works Vehicles & Machines

installed on almost any vehicle by utilising a standard receiver hitch or by a custom mounting design

- Metric or imperial units

### System Features

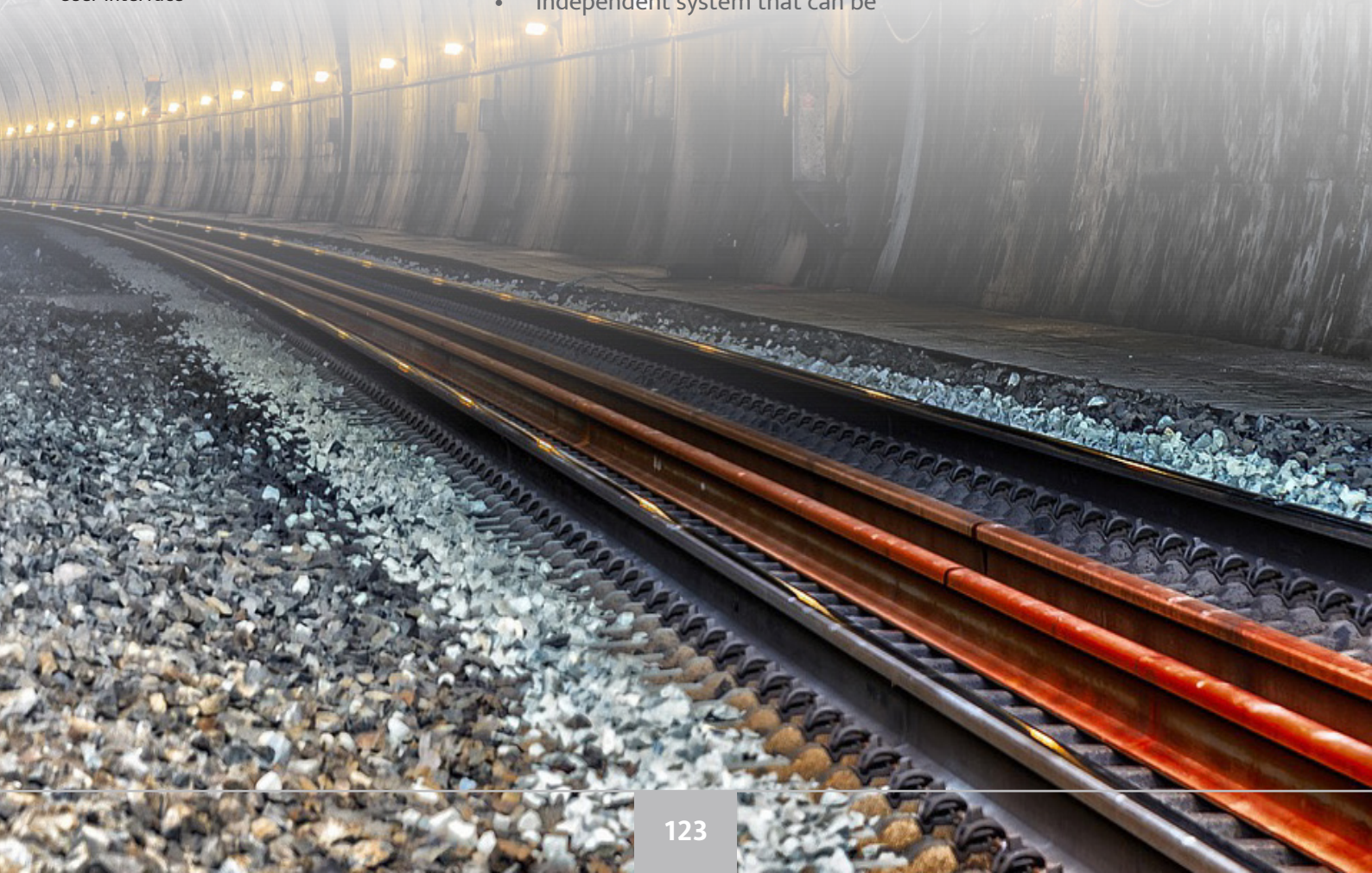
- High-value, low-cost, accurate measurement solution
- Exceptions processed in real-time based on FRA track class threshold limits
- Measurements can be made at 10–30mph
- Average precision of 1.5mm/0.10
- Minimal retrofit requirements for existing vehicles
- Independent system that can be

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[emea.harscorail.com](http://emea.harscorail.com)



User interface



20-23 SEP

# HARSCO RAIL INNOTRANS 2022



## Visit us:

from September 20 – 23 at our booth to learn about the latest developments and innovations at Harsco Rail.

## On the tracks:

On the tracks we will be exhibiting our motor-powered carrier wagon with hydraulic crane and staff container designed for the SBB catenary maintenance fleet.

## Another highlight:

will be us demonstrating our latest Railway Worker Safety Products.

Learn more at: [emea.harscorail.com](https://emea.harscorail.com)

**VISIT US HERE:**  
**Hall 25 - booth 555**  
**Track 2/80**

