



## Industries We Serve



Mining



Oil & Refinery



Cement & Concrete



Steel



Agricultural



Power



Forestry



Heavy Machinery

## Pioneering Industrial Sustainability



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Railroad Industry  
Exclusive Product Offerings

# CastoTrak



- Proven performance for in-situ repairs - ManTrak and TufTrak
- Formula designed to reduce part replacement and operational disruption
- Ultimate guidance in lowering rail maintenance downtime
- Global technical expertise at your service



## Net-Zero Driven Maintenance Solutions

In today's global world, consistent transportation is more critical than ever to avoid the shortage of goods and services, while enabling social prosperity. Sustainable and cost-effective transportation is a core contributor to reducing carbon footprint.

In railroad maintenance, it is no surprise that:

- Repairing track components is a more sustainable method when compared to replacing worn parts.
- High-quality tamping and surfacing are required to enhance track stability in correct geometric positions.

### Why Part Maintenance

Deformed grooved rails, worn rail crossings and switchblades subject to frictional wear, abrasion and impact may cause costly breakages and safety risks. **Properly selecting rebuilding procedures and materials is as critical as preventative maintenance practices.**

At Castolin Eutectic, we understand the challenges of creating safer, sustainable and efficient maintenance practices. As a result, we developed an extensive range of railroad maintenance products for effective track maintenance, to help you address the specific demands of the railroad industry.



Increased Service Life



Reduced Downtime



Significant Cost Savings

## Benchmark Product & Service Offerings

As a part of our DNA, Castolin Eutectic is known to develop **welding procedures and products** that maximize welding performance and operator appeal. Our railtrack maintenance procedures and products are formulated to increase safety, improve operator efficiency and increase welding performance for in-situ track repair.

- Global expertise in developing welding procedures and customized solutions
- Industry-leading railroad grade products
- Faster deposition rates through cored wire technology
- On-site training and technical support
- LaserClad® technology for efficient leveling, lifting, lining and tamping



High Performance Alloys



Advanced Formulations



Product Availability



Technical Support & Welding Procedures



Quality Assurance

## LaserClad®

Railroad safety with laser-smooth maintenance surfacing.

Tamping and surfacing are integral elements of railroads' **Maintenance-of-Way** programs, enhancing track stability.

**LaserClad® technology** offers a **benchmark quality and performance** for **tamping** and **surfacing** machine parts available to railroad maintenance contractors – for efficient leveling, lifting, lining, and tamping.

Choose our laser cladding solutions for safer transportation, quality and performance:

- Designed to ensure less surfacing equipment downtime and increased productivity.
- High-performing tamping and leveling parts for accurate surface alignments
- Increased safety and efficiency for turnouts crossing and curves, and transitions
- Preventative maintenance approach mindset
- Contractor-grade cladding options

## CastoTrak Product Offerings

Made to perform in-situ rail track repairs and restoration of **carbon steel** and **manganese steel** parts.

### For repairs on Carbon Steel Rails

Rails Hardness	Product	Features & Applications	Typical Tensile Strength	Typical Hardness	Part Number
LOW ALLOY RAIL	TufTrak 1	All position electrode for build-up and overlay on carbon steel parts, resists mild abrasion and severe impact. Ideal for harder rails. <i>Switch points, switch point protectors, repair of engine burns.</i>	140,000 psi	35-40 HRC	1TUF-32-5K 1TUF-40-5K 1TUF-48-5K
	TufTrak 2	High deposition wire for build-up and overlay on all carbon steel rails and switches. Deposits are especially tough and resistant to deformation from impact, friction and mild abrasion. <i>Stock rail, rigid rail frogs, rail ends.</i>	120,000 psi	35-40 HRC	2TUF-20-13.6K
STANDARD STRENGTH	TufTrak 4	All position electrode for heavy build-up and cushioning on carbon steel parts subject to impact and compression. <i>Switches and stock rail.</i>	115,000 psi	31-35 HRC	4TUF-32-5K 4TUF-40-5K 4TUF-48-5K
	TufTrak 5	High deposition wire for build-up and cushioning on carbon steel parts subjected to impact and compression. Easy slag removal. <i>Frogs, switches and stock rail.</i>	115,000 psi	31-35 HRC	5TUF-16-13.6K 5TUF-20-13.6K

### For repairs on Manganese Castings

Rails Hardness	Product	Features & Applications	Typical Tensile Strength	Typical Hardness	Part Number
HIGH LOADS	ManTrak 2	High deposition wire designed to work harden rapidly in service and to a higher hardness without risk of cracking. Especially suitable for high tonnage frogs that require longer service life. <i>Rail frogs and inserts.</i>	130,000 psi	AD: 20-25 HRC WH: 45-50 HRC	2MAN-16-13.6K 2MAN-20-13.6K
HIGH SPEED TRAFFIC	ManTrak 2N	High deposition wire with the same properties as ManTrak #2, but designed to weld at lower amperages to prevent overheating of frog switch points and wings. <i>Rail frogs and inserts.</i>	145,000 psi	AD: 20-25 HRC WH: 45-50 HRC	2NMAN-16-13.6K 2NMAN-20-13.6K
LIGHTER LOADS	ManTrak 1N	All position electrode for build-up, overlay and joining on manganese frogs. <i>Frogs, frog inserts, crossings and wings.</i>	115,000 psi	AD: 85-95 HRB WH: 45-50 HRC	1NMAN-32-5K 1NMAN-40-5K 1NMAN-48-5K 1NMAN-64-5K
SLOWER SPEED TRAFFIC	ManTrak 4	Provides maximum resistance to impact, shock and hammering. Stabilizers added to minimize carbide precipitation at the grain boundaries. <i>Frogs, frog inserts and crossings.</i>	126,000 psi	AD: 20-27 HRC WH: 45-50 HRC	4MAN-16-13.6K 4MAN-20-13.6K

AD: as deposited | WH: work hardened  
Individual product datasheets are available upon request.

LaserClad® Surface Cladding Services  
Perform your Maintenance-of-Way with the highest level of precision