



RAILWAY COMPONENTS & MANUFACTURING SOLUTIONS

2026 CATALOG

Engineered Components. Superior Manufacturing.
Built for Every Journey.

Delivering high-quality railway components and manufacturing solutions that ensure performance, safety, and reliability across passenger, freight, metro, and high-speed rail systems.

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BUILT FOR EXTREME CONDITIONS

Engineered to perform in harsh rail environments with reliable components and systems.



PRECISION & RELIABILITY

Advanced manufacturing ensures accurate, durable, and consistent performance.



SAFE, EFFICIENT, DURABLE

Designed for safety and durability to meet the toughest rail industry standards.



TESTED & CERTIFIED

Rigorous testing and quality assurance for compliance with global standards.



MAXIMUM UPTIME

Reliable components reduce downtime and keep your rail operations running at their best.



CUSTOMIZED RAILWAY COMPONENTS & ENGINEERED MANUFACTURING SOLUTIONS



INTERIOR PASSENGER CABIN COMPONENTS

Engineered interior solutions designed for passenger comfort, safety, aesthetics, and long-term rail performance.



CUSTOMIZED SEATING ASSEMBLIES

- ✓ Seating structures
- ✓ Armrests
- ✓ Tray tables
- ✓ ADA-compliant systems



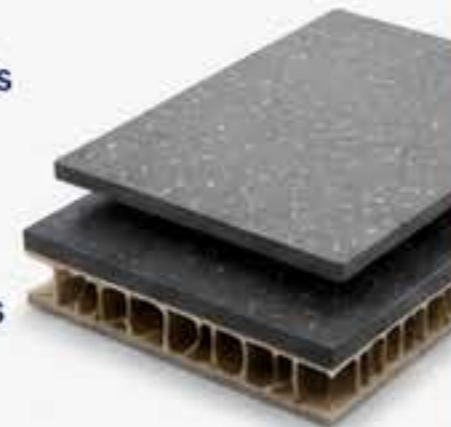
CABIN INTERIOR PANELS

- ✓ Interior wall panels
- ✓ Ceiling systems
- ✓ Decorative trims
- ✓ Luggage rack components



FLOORING & STRUCTURAL SUPPORTS

- ✓ Anti-slip flooring panels
- ✓ Lightweight support structures
- ✓ Reinforcement systems



KEY BENEFITS

- ✓ Passenger comfort optimization
- ✓ Lightweight design for energy efficiency
- ✓ Durable transit-grade materials
- ✓ Custom finishes and configurations



ENHANCED COMFORT

Ergonomic designs that elevate the passenger experience.



LIGHTWEIGHT & EFFICIENT

Weight-optimized components improve energy efficiency.



DURABLE & RELIABLE

Transit-grade materials built for long-term performance.



CUSTOM FINISHES

Aesthetic flexibility with a wide range of finishes and configurations.





CUSTOMIZED RAILWAY COMPONENTS & ENGINEERED MANUFACTURING SOLUTIONS



ELECTRICAL, HVAC & THERMAL MANAGEMENT

Engineered systems that deliver reliable power distribution, efficient climate control, and optimal thermal performance for modern railcars.



ELECTRICAL & ELECTRONIC ENCLOSURES



ENGINEERED ELECTRICAL SYSTEMS

- ✓ Traction control cabinets
- ✓ Auxiliary power enclosures
- ✓ Battery housings
- ✓ Signal interface boxes



CABLE MANAGEMENT SOLUTIONS



- ✓ Cable trays
- ✓ Routing systems
- ✓ Wire harness supports



HVAC & THERMAL MANAGEMENT SYSTEMS

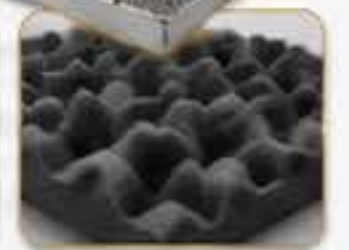
HVAC STRUCTURAL COMPONENTS

- ✓ Rooftop mounting frames
- ✓ HVAC support structures
- ✓ Air ducting systems



THERMAL & ACOUSTIC SOLUTIONS

- ✓ Filter housings
- ✓ Condensate trays
- ✓ Thermal insulation assemblies
- ✓ Acoustic barrier systems



KEY ADVANTAGES



OPTIMIZED THERMAL PERFORMANCE

Maximizes system efficiency and climate control.



RAIL-ENVIRONMENT DURABILITY

Engineered to withstand vibrations, temperature extremes, and harsh operating conditions.



CORROSION-RESISTANT MATERIALS

Long-lasting protection for critical systems and components.



PRECISION-FIT ENGINEERED ASSEMBLIES

Exacting tolerances ensure reliable integration and performance.





CUSTOMIZED RAILWAY COMPONENTS & ENGINEERED MANUFACTURING SOLUTIONS



DOOR SYSTEMS & DRIVER CABIN COMPONENTS

Precision-engineered components that enhance safety, ergonomics, and reliability for modern railcar operations.



DOOR SYSTEM COMPONENTS

PASSENGER ACCESS SYSTEMS

- ✓ Door brackets
- ✓ Roller systems
- ✓ Guide rails
- ✓ Threshold plates

PASSENGER SAFETY HARDWARE

- ✓ Emergency release systems
- ✓ Push-button housings
- ✓ LED indicator modules



DRIVER CABIN & CONTROL COMPONENTS

ERGONOMIC CONTROL SOLUTIONS

- ✓ Instrument consoles
- ✓ Display housings
- ✓ Switch panel assemblies



SAFETY & VISIBILITY SYSTEMS

- ✓ Camera mounts
- ✓ Visor systems
- ✓ Safety support hardware



KEY BENEFITS

- ✓ Enhanced operational safety
- ✓ Ergonomic operator environments
- ✓ Reliable long-life performance
- ✓ OEM-compatible customization



ENHANCED OPERATIONAL SAFETY

Components engineered to meet rigorous safety standards for passenger and operator protection.



ERGONOMIC OPERATOR ENVIRONMENTS

Thoughtful designs that improve comfort, visibility, and control.



RELIABLE LONG-LIFE PERFORMANCE

Built with transit-grade materials and precision engineering for durability and minimal downtime.



OEM-COMPATIBLE CUSTOMIZATION

Tailored solutions that seamlessly integrate with OEM platforms and fleet requirements.





CUSTOMIZED RAILWAY COMPONENTS & ENGINEERED MANUFACTURING SOLUTIONS



EXTERIOR, UNDERFRAME & LIGHTING SYSTEMS

Engineered components that enhance durability, performance, safety, and passenger experience across every journey.



EXTERIOR & UNDERFRAME COMPONENTS

STRUCTURAL & PROTECTIVE SYSTEMS

- ✓ Aerodynamic fairings
- ✓ Underbody covers
- ✓ Access panels
- ✓ Maintenance hatches



MOUNTING & SUPPORT HARDWARE

- ✓ Structural brackets
- ✓ Sensor mounts
- ✓ Auxiliary supports
- ✓ Protective shields



LIGHTING & PASSENGER INFORMATION SYSTEMS

INTERIOR & EMERGENCY LIGHTING

- ✓ LED lighting modules
- ✓ Emergency lighting housings



PASSENGER COMMUNICATION SYSTEMS

- ✓ Display enclosures
- ✓ Passenger information hardware
- ✓ CCTV brackets
- ✓ Antenna mounts
- ✓ Communication hardware



UNDERFRAME STRUCTURES & SYSTEMS



KEY BENEFITS

- ✓ Lightweight durable construction
- ✓ Corrosion-resistant finishes
- ✓ Improved maintenance accessibility
- ✓ Enhanced passenger communication systems



LIGHTWEIGHT & DURABLE

Advanced materials and optimized designs reduce weight while ensuring long-term durability.



CORROSION-RESISTANT FINISHES

Engineered to withstand harsh rail environments for extended service life.



IMPROVED MAINTENANCE ACCESSIBILITY

Smart component design enables faster inspection, easier access, and reduced downtime.



ENHANCED PASSENGER COMMUNICATION

Reliable lighting and information systems deliver safety, comfort, and real-time connectivity.





CUSTOMIZED RAILWAY COMPONENTS & ENGINEERED MANUFACTURING SOLUTIONS



RETROFIT SOLUTIONS & QUALITY COMPLIANCE

Delivering reliable retrofit solutions and a commitment to quality that keep rail fleets operating safely, efficiently, and in compliance for the long term.

RETROFIT & AFTERMARKET SOLUTIONS

FLEET MODERNIZATION PROGRAMS

- ✓ Legacy replacement components
- ✓ Reverse-engineered parts
- ✓ Custom-machined solutions

UPGRADE & LIFECYCLE SUPPORT

- ✓ LED upgrade kits
- ✓ Modernization assemblies
- ✓ Long-life spare parts support

EXTENDED ASSET LIFE

Supporting rail fleets with reliable component availability for 20+ year operational lifecycles.



QUALITY & COMPLIANCE

STANDARDS ALIGNMENT

- ✓ EN 15085
- ✓ EN 45545
- ✓ IRIS / ISO 22163



ENGINEERING SUPPORT

- ✓ Collaborative product development
- ✓ Manufacturability optimization
- ✓ Prototype validation support



AGILE MANUFACTURING

- ✓ Low-volume / high-mix production
- ✓ Rapid engineering responsiveness
- ✓ Flexible production scheduling



KEY BENEFITS

- ✓ Compliance with industry standards
- ✓ Reliable long-term performance
- ✓ Reduced downtime and lifecycle costs
- ✓ Trusted partner for modernization and retrofits



QUALITY YOU CAN TRUST

Rigorous quality processes ensure safe, reliable, and compliant railway components.



ENGINEERING EXCELLENCE

Advanced engineering and validation deliver solutions tailored to your fleet and operating environment.



LIFECYCLE COMMITMENT

Long-term support and spare availability to keep your assets running for 20+ years.



PARTNERSHIP APPROACH

Collaborative, responsive, and dedicated to your success at every stage.



RAILWAY COMPONENTS & MANUFACTURING SOLUTIONS

Engineering Excellence • Manufacturing Precision • Delivering Reliability



CUSTOM ENGINEERING



PRECISION MANUFACTURING



QUALITY & COMPLIANCE



AGILE & FAST DELIVERY



LONG-TERM PARTNERSHIP



INTERIOR PASSENGER CABIN COMPONENTS

- Seating structures & armrests
- Tray tables & ADA systems
- Interior wall & ceiling panels
- Luggage rack components
- Anti-slip flooring panels
- Lightweight support structures



ELECTRICAL, HVAC & THERMAL SYSTEMS

- Traction control cabinets
- Electrical enclosures & housings
- Cable trays & routing systems
- HVAC frames & ducting
- Thermal insulation assemblies
- Acoustic barrier systems



DOOR SYSTEMS & DRIVER CABIN

- Door brackets & roller systems
- Guide rails & threshold plates
- Emergency release systems
- Push-button & LED modules
- Driver consoles & displays
- Switch panels & camera mounts



EXTERIOR, UNDERFRAME & LIGHTING SYSTEMS

- Aerodynamic fairings & covers
- Access panels & hatches
- Structural brackets & mounts
- LED lighting & emergency lights
- Passenger info displays & hardware
- CCTV & communication mounts



RETROFIT SOLUTIONS & AFTERMARKET SUPPORT

- Legacy replacement components
- Reverse-engineered parts
- LED upgrade kits
- Modernization assemblies
- Long-life spare parts support
- 20+ year asset lifecycle support



STRUCTURAL & MECHANICAL COMPONENTS



ELECTRICAL & CONTROL SYSTEMS



HVAC & THERMAL MANAGEMENT



INTERIOR FITTINGS & PASSENGER SOLUTIONS



MOUNTING, BRACKETS & CUSTOM ASSEMBLIES

STANDARDS & CERTIFICATIONS



EN 15085
Welding



EN 45545
Fire Safety



IRIS
ISO 22163



ISO 9001
Quality



ISO 14001
Environment



RoHS
Compliant



CE
Certified

WHY CHOOSE OSANTS



Customized engineering to OEM requirements



Precision manufacturing with advanced technology



High quality, safety & compliance assured



Agile production & on-time delivery



Long-term spare parts & retrofit support



Trusted by OEMs, suppliers & rail operators



Delivering Flexibility, Customization & Industrial Reliability for the Next Generation of Railway Systems.



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