Dear Sir,

We would like to take this opportunity to introduce “Speetech Architectural Technology Est.” as a well-established organization in Saudi Arabia. The company deals in a wide range of railway products, includes all rail vehicle spare parts. We have vast experience in dealing with industrial products related to oil & gas, refineries, petrochemicals, energy sector also.

Speetech, was formed with the objective to catering the growing need of approved quality international products for Saudi Arabian market. We further aim providing a single source for meeting all your requirements by providing wide range of products, at this movement we are representing some well-known (brand) like Hyundai Rotem Korea, Pramet Tools, Geumgang Shipbuilding Co Ltd., Haeyang Shipping Group Korea, Emile Carver Pump USA, Malema Flow Sensor Technology USA, FEMA Valve Italy, Arako Valve CZ, Cantoni Motors Poland, Perma Pure L.L.C. USA, Rath Gibson Tubing USA, Control Line, Greeeville Tube Company USA, Axis India for Analyzer Shelter India etc. Some other companies products for representation is under process., We have entered into agreement with several reputed manufacturer from USA, UK, France, Italy, Germany, Spain, Netherland, Japan, Korea India etc., with approved products from international standard organizations such as ISO 9001 & ISO 9002, American Standard & CE European Standard. All the products that we deal in are made of internationally approved materials under strict quality control with latest technology allowing us to supply high quality products with best possible prices to our customer.

We have earned a high reputation and business strength with the support of highly qualified and professionally team, who have in-depth knowledge of Indian market and professional handling of customers and end users. The company works hard on continuous professional development of staff and creating awareness among customers about the latest developments and products available in the

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Website:www.speetech.net
Products for Rail Vehicles

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Right part @ best price @ right time - Excellent service

international market. We have a 24x7 emergency response team to deal with any urgent product and service requirements.

Our strong client base includes reputed names like (BEML India). Our range of Rail Vehicle Products is extensive and we could be looked upon as the “Single Source” for your entire requirements. We can also supply any kinds of rail industry related products through our own supply lines and also through secondary supply lines created through our business agreements and working relationships.

Speetech Spares is excellent partner for the supply of genuine spare parts and maintenance parts for the railway industry. We cover all rail-bound applications such as railway vehicles, on-track plants and workshop equipment.

Together with our partner companies we also provide after-sales service, training for operation, overhaul and maintenance of railway vehicles as well as individual trouble-shooting. Our customers appreciate our short-time reaction as well as individually customized solutions.

Supplier for Rail Freight

Speetech is a wholesale trader for rail-carriage spare parts and brake components, and supplies all parts and materials satisfying to all our customer.

Our supply programmed compromises UIC suspension parts, draw hooks & tail pins, side bearer parts, brake hoses, couplings, wagon fittings, track materials, draw gear parts, buffers, springs, wheel scrubbers and brake blocks.

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Railway maintenance

Track maintenance companies are pleased to receive genuine spare parts from Speetech Spares as well as price-competitive alternative solutions still meeting technical and quality requirements.

We deliver tamping tools, drive motors, hydraulic valves and pumps, tamping cylinders and complete piling units. Besides the track maintenance we supply parts for overhead wiring and piling trains.

We would highly appreciate your response and enquiries and ready to meet and discuss the opportunities of working together at any time.

We look forward to work jointly and start a commercial business relation with your esteemed organization.

In this regards your co-operation is highly appreciated,

With regards,

Nassir Ali
Business Development Manager

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As well as complete braking systems for all types of rail vehicles, the product portfolio also encompasses door systems, air conditioning systems, bogie diagnosis systems, sanding systems and windscreen wipers.
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An air supply system encompasses the production of compressed air by means of compressors and air preparation. The end result is the supply of the specified amount of compressed air of the quality required. Compressed air is the energy source for the basic functions of a railway train. As well as operating the brakes, it is also used to open the doors, powering the air suspension, the sanding unit as well as to raise the pantographs and powering the windscreen wipers.

The trend towards more compact, lighter vehicles with increasing levels of safety and performance provides, today, an additional challenge for every manufacturer. For these reasons, a reliable supply of compressed air calls for innovative concepts. Speetech confronting this challenge and offers a tailor made system for every air supply requirement. By reducing the number of interfaces, significant reductions in assembly and disassembly times can be achieved. Due to the great reliability of the integrated system, the availability for use of the entire train system is increased. Speetech can supplies the complete product range from the ancillary compressor unit right up to heavy locomotive systems. All are specially developed and tested for use in rail vehicles.

Compressors
- Piston or screw type
- Oil-free compressors
- Modular compact sub-systems
- Low life-cycle costs
- Delivering low noise and vibration levels

Air Dryers

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- Single and double chamber systems for clean, dry air
- Increased safety and performance of the whole braking system
- Reliable, even in extreme temperatures

Complete Systems
- Integration in compact rack systems possible
- Simplified installation and maintenance
- Capsuled and sound insulated for underfloor installation

Accessories
- Pressure switches
- Condensate collector units
- Oil filters
- Safety valves

Bogie Equipment

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Compact Wheel Brake Caliper

The bogie equipment is the part of the overall system that actually generates the braking force. Thanks to continuous product and system innovation in this demanding product area, braking performance, life-cycle costs, noise emissions and installation costs have been significantly improved – to the very highest level and safety standard. In the course of this, every piece of bogie equipment is individually designed, i.e. to take into account customer-specific operating conditions, operating area and installation conditions.

Brake Discs
- Wheel or axle mounted versions
- Materials: steel, grey cast iron, nodular graphite cast iron, aluminum or fiber-reinforced ceramic
- Split or non-split friction rings
- Modular construction

Brake Pads
- High-performance materials for high braking power, e.g. ISOBAR® high temperature lining
- High wear resistance
- Simple replacement

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- Life-cycle costs optimized development of friction pairings
  Brake Caliper Units
- Compact, lightweight design
- Simple bogie installation
- Low life-cycle costs
  Block Brake Units
- Single or double block versions
- Robust design for the most varied climatic conditions
- Economic solution for a variety of applications
  UIC Brake Cylinders and Slack Adjusters
- Various sizes for different braking requirements
- Extremely robust, low maintenance costs

Track Brakes
- Braking device independent of wheel-to-rail adhesion
- Enhances the overall braking efficiency of the vehicle
- Available as electromagnet or eddy-current brake
- Available as high or low suspension mounting

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Compact Design with Significant Weight Saving and High Efficiency

Conventional or Compact Braking Equipment for:
- All four axle freight wagons with Y25 bogie
- Freight wagons with reduced noise emissions
- Freight wagons for difficult environments
- Adaptation to customer-specific bogies possible

<table>
<thead>
<tr>
<th>FREIGHT CAR BRAKE SYSTEM PARTS</th>
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<tr>
<td>Cobra Brake shoes</td>
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<td>Train-line Hoses 22&quot; / 33&quot;</td>
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<tr>
<td>Draft Gears</td>
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Speetech can procure through our principle different line on railcar brake components. We are your one and only source for these products.

Brake Control
EP Compact
Brake control is an extremely safety-relevant sub-system of the train due to the fact that it must allow reliable stopping of the train in all operating conditions.

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Optimum braking is achieved if operation of a single lever by the driver results in an individual braking force being applied to each axle or bogie of the train. As the driver himself is not in a position to apply the brakes with a specific force to each axle or bogie, modern brake control systems need to have a large number of integrated intelligent functions:

- Load-specific braking of empty or loaded cars
- Antilock Braking System (wheel slide protection)
- Driver alertness monitoring (SiFa)
- Remote-controlled emergency braking (LZB, Penalty Brake)
- Passenger-operated emergency braking systems
- Anti-wheel-slip systems

Irrespective of whether the train has a manual brake, electro-magnetic track brake, eddy-current brake or reverse drive generator brake, the brake control system ensures optimum coordination of the various systems.

Whatever solution is chosen, safety and economy are the main priorities. Speetech offers solutions that are tailored to the customer’s specific requirements, for all countries and the most diverse environmental factors. Furthermore, our equipment is not only simple to install, maintain and repair but also offers top quality, compact design and low life-cycle costs, thanks to its intelligent combination of pneumatic and electronic components.

**Main Product Groups**

**Hydraulics**
**Products for Rail Vehicles**

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**Hydraulic Brake Caliper**

Passengers today expect a lot from modern local public transport vehicles. They demand a high degree of freedom of movement, comfort and safety. As a result, the amount of space available for installing braking systems is becoming increasingly limited.

The challenge today is, therefore, to design extremely compact, light hydraulic systems, which combine safety, flexibility and fast response characteristic with high performance. As a solution to this, Speetech offers a wide product range which has contributed decisively to the development of new vehicle generations such as, for example, the low floor tramway.

Electro-Hydraulic Units

- Compact design resulting in weight reduction
- Fast response times due to hydraulic technology
- Can be fitted in bogies, thus reducing amount of pipe work required
- DC and three phase AC drive possible

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Braking Pressure Generator
- Designed as active brake or spring applied construction
- Clamping forces in a range of 10 kN to 110 kN (kilonewtons), in combination with extremely light and compact design
- Integration of special functions such as emergency release functionally, adaption of speed sensor etc., possible
- Designs for a wide range of bogies available

Hydraulic Leveling and Suspension Systems
- High level of ride comfort – comparable to air suspension
- Leveling control possible
- Integration into braking system – controlled by same hydraulic medium
- Integrated vertical damping
- Horizontal reentering force integrated into strut
- Significantly less space required than with pneumatic systems

Sanding Systems

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Sanding System
Sanding systems are used in rail vehicles to improve friction between wheel and track. Operation is either automatic or can be initiated by the driver, who can use it in a targeted way for starting-up and braking. During emergency braking, sanding is automatically activated. The sand is contained in a sandbox and, when necessary, is conveyed by compressed air between the wheels and the track.

Advantages:
- Optional 2 stage or continuous speed dependent sanding
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- Complete pre-assembled sandboxes: Plug & Play
- Compact design
- Economical life-cycle costs

Speetech, as a competent partner, offers all the components for a sanding system:

**Air Supply**
This comes from the vehicle air supply or from a dedicated, small electric compressor.

**Sanding Unit**
Sanding units work with the overpressure or/and under pressure principle. In addition to the sanding function, some sanding units also offer a heating function (for the entire sand box content) and a so called "after-blow" function.

**Sand Pipe Heaters**
Prevent freezing and blocking of the sand pipe.

**Sand Level Indicator**
Sand level can be checked either with a gauge glass or electronically with a filling level sensor.

**Sand Box**
As Speetech is a systems supplier, sand boxes can also be supplied according to the customer’s own specifications.

**Sand Box Cover**
Sand box covers for manual filling or by means of a sand gun.

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BENDIX Products

- Solutions Designed To Create The Perfect Stop
When you need quality, reliability, innovation and performance, depend on the complete line of wheel end solutions from Bendix Spicer Foundation Brake LLC. We’re the preferred OEM supplier of comprehensive air brake systems and components. No one understands the intricacies like we do.
We deliver the most complete offering of wheel-end components and aftermarket solutions for light-, medium-, and heavy-duty applications. Our foundation brake Solutions deliver significantly shorter stopping distances for increased safety, greater stability during stops, reduced cost per mile and increased peace of mind.
BSFB is the complete, one-stop source for all of your OE-quality, all-makes foundation brake replacement parts in one of the most trusted brands – Bendix.
We offer a full range of air and hydraulic brake parts, friction materials, air brake chambers and a line of Formula Blue® replacement hydraulics. One out of every three North American commercial vehicles manufactured today is built with our foundation brakes. And many top fleets spec only our brakes both on their new trucks and trailers as well as for their all-makes replacement parts.

Formula Blue® Hydraulic Brake Parts

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Remanufactured Brake Shoes

Actuators

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Door Systems

Train Entrance Systems

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It is easy for delays to occur while passengers are getting on and off the train. The quality of the access system, therefore, has an important influence over the operating efficiency of rail vehicles. Calculations show that the advantage to a business of a high quality access system exceeds its procurement costs by up to ten times. The security and the comfort of the passengers are always in focus when developing a detection systems and access devices.

**We Offer**
- Sliding plug, external and pocket sliding door applications
- Internal doors, connecting doors and fire protection doors
- Driver’s cabin doors and access doors
- Automatic ramps
- Hinged, swing and sliding steps
- Microprocessor based door control systems
- Detection systems
- Service: installation, maintenance, customer training and overhauls

**Platform Door Systems**
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Platform screen door systems make a significant contribution to platform safety, air conditioning and the cleanliness of the boarding area. They extend the entire length of the platform. The cars come to a halt in such a way that the vehicle doors and the platform doors are adjacent. Every platform door is made up of and automatic sliding door with two wings. This door is integrated into a glass wall element. The door control is protected from unauthorized access by a sealed housing. Platform sills give the doors and wall elements additional stability.

Advantages:
- Increased passenger safety
- Control of passenger flow
- Effective protection of the environment
- Increased comfort
- Attractive platform appearance
- Reduction of station running costs

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**Air Conditioning Technology**

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**Air Conditioning Unit**

Whatever the weather conditions – the air conditioning systems can provide by Speetech from our principle, offers you flexible operation in the region, wherever air conditioning systems, ventilation systems or heating systems are needed: in high speed trains, local trains or subways and urban trains.

From the very beginning, protection of the environment plays an important role in production, servicing and disposal.

**Heating, Ventilation and Air Conditioning Systems**

- Conventional or heat pump systems
- Compact package or split systems
- Roof, inside the car or under car installations

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- Passenger and drivers cab area
- Microprocessor based temperature control
- Air quality systems
- Fire and smoke detection systems
- Air duct systems (new and retrofitted vehicles)

Electronic Applications
- Passenger and drivers cab areas overpressure protection systems
- Auxiliary power supply units
- Emergency ventilation inverters
- Bench testers for HVAC units, microprocessor controllers and emergency inverters
- Transformers
- Speed regulators for motors

Products & Systems

OUTSIDE LIGHTING
- LED Marker Lights
- LED Side Door Indicators
- LED Brake Lights

FABRICATED COMPONENTS
- Enclosures
- Undercar Control Boxes
- Door Control Panels

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- Pri 970 Light Indicator LED
- Pri 974 Light Indicator LED

MECHANICAL COMPONENTS
- Electronic Couplers
- Latching Couplers
- Machined Components
  - Cams
  - Actuators
  - Linkages
- Custom Machined Components

MECHANICAL ASSEMBLIES
- Circuit Breaker Panels
- Cab Control Panels
- Door Control Panels
- Door Operator Assemblies
- Cab Indicator Panels
- Capacitor Assemblies

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Oil Free Compressor

Products & Systems

- Industrial Ducting
- Exhaust System Accessories
- Extruded Material Handling
- Food Grade
- Garage Exhaust / Indoor Fume Control
- General Service

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Heavy Duty Service
Medium Duty Fume Control
Medium Service
Specialty Fume Control
Specialty Metal Tubing/High Temp Fume Control
Temperature Loss Protection
Ultra High Temperature
Welding Exhaust/Utility Blower Duct
Industrial Hose
Air and Compressed Gas
Chemical
Custom Connectors/Expansion Joints
Food and Beverage
High Temperature
Locomotive & Air Brake Assemblies
Marine Fuel
Marine General Purpose
Marine Sanitation
Marine Water & Exhaust
Material Handling
Mining
Petroleum
Petroleum Hose - Tank Truck
PVC, Urethane and Thermoplastic
Sweeper & Vacuum Truck
Water & Steam
Uni-Chem Composite Hose
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Biodiesel and Ethanol Service
Bottom Loading Service
High Temperature Pump-Flex Composite
Standard Chemical Service
Special Chemical Service
Standard Petroleum Service
Special Petroleum Service
Vapor Recovery Service
Dry break Couplings
Dry Break Couplings
Dust Plugs & Dust Caps
Hose Swivels
Liquid Propane Gas Coupling
Pressure Tight Cap
Safety Break-Away Coupling
Two Way Ball Valves
HVAC Systems
Aluminum Ducting - Flexible
Encapsulated Ducting - Flexible
Fabric Ducting - Flexible
Flat Oval Spiral Duct & Fittings
HVAC Accessories
Insulation Sleeves
PVS Products
Rectangular Duct & Fittings
Spiral Duct & Fittings

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Spin-Ons
Stainless Steel Ducting - Flexible
Z-Flex Venting Systems
Chimney Liner Kits - All Fuels
Chimney Liner Kits - Oil
Chimney Liner System - All Fuels, Oval
Chimney Liner Kits - Gas, Aluminum
Chimney Liner Kits - Gas Aluminum, Pre-Insulated
Stainless Steel Rigid Liner & Access.
Flexible Vent Connector - Gas
Flexible Vent Connector - Oil
Special Gas Vent Pipe & Fittings
Special Gas Vent Terminations
Special Gas Vent Cat II, III, IV
Wall Hung Water Heater Kits
Z-Vent Commercial Pipe & Fittings
Z-Vent Commercial Terminations
Z-Vent Commercial Adaptors

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Products & Systems

From engineering and design thru manufacturing Speetech can provides Valves, Meters, Gauges, Freeze Protection devices, Test Instruments, Digital Speedometers and Control Panel products to meet the needs of railroad, rapid transit, bus, commuter and high speed rail industries.

Locomotive  Product Location Guide

Passenger Car  Product Location Guide

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Fuel injection pumps
Injector assemblies
Nozzle assemblies

Products & Systems (Quality ensures our future) Fuel Saving Solutions

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Fuel injection pumps
Injector assemblies
Nozzle assemblies
Delivery valves
Plungers and barrels
Electronic Injectors Contract manufacturing

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Website: www.speetech.net
Products for Rail Vehicles

“We Specialized in problem solving, whether your needs are small, medium or large”

Right part @ best price @ right time - Excellent service

OEM specifications are met or exceeded with our nuclear and aerospace approved facility.

Product Overview

Fuel Transfer Pumps
Speetech can provide Fuel Transfer pumps, Products is the leader in high-value, electric-powered, diesel engine fuel transfer pumps. These pumps are designed for a 10-year service life with no required maintenance under normal operating conditions. They accommodate flow rates from 2 LPM up to 60 LPM (0.5 GPM - 16 GPM).

These are organized into 3 product families

- Locomotive Fuel Transfer Pumps
- Diesel Engine Fuel Transfer Pumps
- Aftermarket Fuel Transfer Pump
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Pre-Lube Pump
A pre-lube pump provides vital protection to your costly equipment by delivering oil under pressure to the most critical components. Prior to startup, the pre-lube pump is engaged, fully lubricating the system until the main lubrication takes over.

Turbo Soak Back Pumps
Turbo soak-back pumps are used to cool hot turbo bearings immediately upon engine shutdown to maximize the life of the turbocharger. In addition, these pumps function as turbo pre-lube pumps to minimize bearing wear at startup.

Fuel Priming Pumps
Speetech can provide Fuel Priming pumps Products' diesel engine fuel priming pumps are designed for exceptional reliability and a long, maintenance-free life. They accommodate flow rates of 2 to 100 LPM (0.5 GPM - 30 GPM) with brushless DC or AC motors.

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Diesel Engine Coolant Pumps
Many diesel coolant pumps have 30 to 50 year-old designs and do not accommodate modern failure-prevention techniques. Speetech principle has developed a series of coolant pumps designed to prevent all of the most common failure modes using proven techniques.

Pressure Relief Valves
Speetech principle offers a family of proprietary fuel pressure relief valves because commercially available valves do not stand up to the harsh environment of contaminated or imperfect fuels. Our pressure relief valves are designed for a 10-year service life under the most extreme conditions.

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Springs

Speetech can provide through our reputed manufacturer Springs our primary consideration is an on-going commitment to our quality management systems.

From raw material selection to shipment, our products undergo an intensive battery of testing and inspections to ensure that we meet our customer's exact requirements.

We carry a diverse inventory of spring materials to ensure prompt delivery of your order. Our manufacturer large production facility is equipped to manufacture all types and sizes of

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Springs.

We offer in-house heat treating, Stress relieving, shot-peening, and painting and powder coating to protect, prolong, and enhance the finish and life of your product.

We offer in-house engineering and spring design to make sure you get the correct spring.

**Coil Springs**

Our Coil Spring division manufactures all types of Coil springs- Compression, Extension, and Torsion, Cold and Hot wound to customer's specifications. We offer short order runs and or large production runs and serve a wide range of industries.

Small compression & extension springs       Die Springs
Compression Extension and Torsion Springs

- Precision Mechanical Springs

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Suspension Parts & Components

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- Compression Coil Springs
- Extension Coil Springs
- Extension Springs with Special Hooks and Draw Bars
- Torsion Springs
- Double Torsion Springs
- Cold Wound Coil Springs

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- Springs from .008" to .625" diameter wire
- Hot Wound Coil Springs
- Springs from .500" to 3" diameter Alloy Bar
  - Specialty Springs - Clock and Spiral Torsion
- Spring Washers
- Wire Forms
- Rings
- Disc Springs
- Automotive Coil Springs
- Car Coil Springs
- Truck Coil Springs
- Motorhome Coil springs

Custom Metal Fabrication

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**Speetech** has the capability to procure a variety of metal shapes and forms according to customer specifications including:

- Heavy Duty Chain
- Sway Bars
- Shaker Springs
- Chipper Blades
- DE barkers and Froes
- Draw Bars
- much more

**A WIDE RANGE OF CREW SYSTEMS TOILETS**

**Speetech can provide a wide range of crew systems toilets and toilet accessories for waste management on board modern locomotives.**

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Timken Bearing Products

Timken is a leader in all bearing types, including standard anti-friction bearing configurations and advanced products such as housed units, integrated bearing assemblies, precision assemblies and FAA-approved aerospace bearings.

Timken Roller Bearings
Tapered Roller Bearings
Spherical Roller Bearings
Cylindrical Roller Bearings
Precision Cylindrical Roller Bearings
Needle Roller Bearings
Thrust Roller Bearings

Timken Ball Bearings
Radial Bearings
Radial Bearings with Lip Seals
Angular Contact Thrust Bearings

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Timken Spherical Plain Bearings
- Radial Bearings
- Radial Bearings with Lip Seals
- Angular Contact Thrust Bearings

Timken High Performance Bearings
- AquaSpex® Trailer Wheel Bearing Kits
- AquaSpex® for Industrial Applications
- DuraSpex® and DuraSpex® Power Rating Series
- Thin Dense Chrome Bearings
- Debris Resistant Bearings
- Wear-Resistant Bearings
- Low Torque Bearings
- P900 Bearings

Timken Precision Bearings for Machine Tools
- Super Precision Ball Bearings
- Precision Tapered Roller Bearings
- Ball Screw Support Bearings
- Hydra-Rib Variable Preload Bearings
- Precision Crossed Roller Bearings
- Precision Cylindrical Roller Bearings

Timken Aerospace Bearings
- Aerospace Ball Bearings
- Aerospace Cylindrical Bearings

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Aerospace Tapered Roller Bearings
Aerospace Spherical Roller Bearings
Aircraft Landing Wheel Bearings

Timken Integrated Bearing Assemblies
AP™ Integrated Bearing Assemblies
AP-2™ Integrated Bearing Assemblies
Formed Hub Wheel End System
Generation 3
Integrated Flexpin Bearings
Integrated Wheel End Bearings
Live Spindle Hub Bearings
Planet Pac
Pinion-Pac™
RacePac™ packaged wheel
Sensor-Pac™
Swing Bearing for Mining Applications
Threaded Bearing Cup
UNIPAC™
UNIPAC-PLUS™
WHEEL-PAC™

Timken Housed Units
Spherical Roller Bearing Solid-block Housed Units
SAF Pillow Blocks
SNT Plummer Blocks

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Tapered Roller Bearing Housed Units (Type E)
Ball Bearing Housed Units
Paver Bearing Housed Units
Automotive Driveline Center Support Bearings

Timken Precision Bearing Assemblies
Ball Screw Support Assemblies
X-Ray Bearing Assemblies
Custom Integrated Bearing Assemblies

Timken Automotive Specialty Kits
DT Components® Drivetrain Kits
Performance Hub Racing Kits
Trailer Kits

Bearing Lubrication
Proper lubrication is essential for the successful performance of any bearing. Timken’s lubricants have been selected to best reduce friction, prevent wear, carry away heat and protect bearing surfaces from corrosion.

Products
Browse Timken’s line of lubricants and lubricators to find the best product for your application.

Technical Information
Learn helpful tips on lubrication procedures.

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TIMKEN GREASE INTERCHANGE GUIDE

Timken Premium,
All Purpose Industrial,
LC-2 Grease
Castrol 4020/220-2™
Castrol 8060/220-2™
Chevron Delo® EP 2
Chevron RPM Automotive
LC Grease EP-2™
Citgo Lithoplex MP2™
Citgo Premium
Lithium EP 2™
Conoco Phillips
Super-STA® 2
Exxon Mobil Ronex MP™
Exxon Mobil Unirex EP 2™
FAG LOAD220™
Fuchs (Century) Uniwrl 2™
Lubrication Engineers
Almagard® 3752
LUBRIPLATE® 1552
Mobil grease® XHP 222
Pennzoil® Pennlith® EP 712
Pennzoil® Premium

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Lithium Complex 2
Petro-Canada
Multipurpose EP 2™
Royal Purple®
Ultra-Performance® 2
Shell Albida® LC 2
Shell Retinax® LC 2
SKF LGWA2™
SKF LGEP2™
Texaco Starplex® 2
Unocal 76 Multiplex Red™
Timken
Construction and
Off-Highway Grease
Castrol Moly 860-2ES™
Castrol Contractor
Grease 2™
Conoco Phillips
Super Lube M EP™
D.A. Stuart Molyplex
EP 2™
Exxon Mobil Centaur Moly
Exxon Mobil Ronex Extra
Duty Moly™
Fuchs Moreplex 2™
LUBRIPLATE® 3000
Mobil grease® Moly 52

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Mystik® Tetrimaly®
Extreme
Pennzoil® Multipurpose
EP 302
Pennzoil® Premium
Lithium Complex 2 with Moly
Petro-Canada Precision Moly EP 2™
Schaeffer Moly Ultra
Supreme 238™
Shell Retinax CMX 2™
Texaco Starplex® Moly MPGM2
Unocal 76 Megaplex™
Timken Ball Bearing Pillow Block Grease
Conoco Phillips
Polyurea 2™
Chevron SRI™
Citgo Polyurea 2™
Citgo Polyurea MP2™
Conoco Phillips
Polyurea 2™
Exxon Mobil Polyrex® EM
Exxon Mobil Unirex N™
LUBRIPLATE® Poly HP-2 Grease
Mobil grease® AW2
Petro-Canada EMB™

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Shell Alvania RL3™
Shell Dolium® BRB
SKF LGHP2™
Unocal 76 Unolife Grease™
Timken Food Safe Grease
SKF LGFP2™
FAG Arcanol FOOD2™
Keystone Nevastane HT/AW2™
LE 4025 H1 Quinplex™
LPS ThermaPlex
Foodlube ™
LUBRIPLATE® FGL-2
Mobil grease® FM 102
Petro-Canada Purity FG™
Royal Purple®
Ultra-Performance® Clear
FDA Grease
Timken
Multi-Use Lithium
EP1 and EP2 Grease
Castrol Longtime™ PD
Castrol Spheerol EPL
Conoco Phillips
Conolit EP
Dow Molykote® BR2
Exxon Mobil Beacon EP
76® Unoba EP

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CITGO Premium
Lithium EP-2
Chevron Multifak® EP
Fina Lithium EP
Chevron Dura-Lith® EP
FAG® Arcanol-MULTI2™
LUBRIPLATE® 1200-2
LUBRIPLATE® 1241, 1242
LUBRIPLATE® 630-AA
SKF® LGMT2
SKF® LGEF2
Shell® Alvania EP
Mobilux® EP

Rubber Products

Sweeper
Insert Rods

Rubber
Rail Seat

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Rubber Tie Boots

Coilspring Pads

Sandpipe Nozzles

Traction Motor Sleeve

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Rubber Abrasion Plates

Rubber Abrasion Pads

High-Density Polyethylene

Rubber Glazing Gaskets

Rubber Tie Plates

Rail Seal Strip

Masticated Rubber Tie Pads

Neoprene Bearing Pads

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Full-Length Tie Pads

Flange way Filler Strips

Elastomer Fabric Bearing Pads

Electrical Switchboard Matting

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LOCOMOTIVES & LOCOMOTIVE REPLACEMENT PARTS

- Brake Heads
- Bushings
- Center Pins
- Draft Keys
- Freight Car Brake Pins
- Inner Races
- Rollers
- Air Brake Systems
- Air Compressors
- Auxiliary Generator
- Camshafts
- Cylinder Heads
- Cylinder Liners
- Dynamic Brake Fans
- Dynamic Brake Grids
- Electrical Components
- Engine Cooling Fans
- Injectors
- Main Generators
- Power Assemblies
- Pistons
- Piston Cooling Pumps
- Roots Style Blowers
- Traction Motors

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- Valves & Water Pumps
- Wrist Pins

Railroad Track Material

- Rubber Nose Clips
- New Rail
- Movable Bridge Rail
- Relay Rail
- Fabrication
- Track work
- Miscellaneous Track Material Products

Rubber Nose Clips

Users include railroads, heavy industries, overhead crane and ARS manufacturers, mining companies, railroad and tunnel contractors, transit authorities, and operators of port facilities.

We guarantee that all material will be carefully inspected before shipment.
Any material which is not as represented can be returned with no cost to you.

We are equipped to handle EDI orders and invoicing

New Rail
Inventory includes every type of ASCE, AREA, ARA-A, ARA-B, and CR rail section that is presently produced throughout the world. Each piece of new rail in our inventory is documented by a mill certificate or a test report. Crane rail can be supplied control cooled, end hardened or heat treated.

**Moveable Bridge Rails**

<table>
<thead>
<tr>
<th>Trackwork Products</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Crossings</td>
<td>Switch Stands</td>
</tr>
<tr>
<td>Crossovers</td>
<td>Switches</td>
</tr>
<tr>
<td>Frogs</td>
<td>Tongue Switches</td>
</tr>
<tr>
<td>Guard Rails</td>
<td>Turnouts (Assembled)</td>
</tr>
<tr>
<td></td>
<td>Turnouts (Components)</td>
</tr>
</tbody>
</table>

**Track work**

**Relay Rail**

Speetech can source out of relay rail changes according to availability. We can supply rails and matching accessories to meet any specification. Normal inventory consists of rail 140-lb. per yard through 60-lb. per yard. All of our relay rail is guaranteed to be straight, uniform in height and drilling and completely suitable for use in any top-grade track system.

**Fabrication**

We can also weld, bend, cut, drill and punch rail per your specifications. In many

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cases, we have modified standard equipment to suit the needs of rail-related fabrication. Our technical specialists are at your disposal no matter how large or small the job.

**Note:** Brand-to-brand installation is highly recommended on all new rail construction.
The raised brand rail web identification should be on the same side for all connected rails.

- Barrier Gates
- Blocks
- Blue Flags
- Bolts
- B‑um
g Posts
- Capstan Car Pullers
- Car Movers(Manual)
- Car Movers(Power)
- Caution Flags
- Chocks
- Compromise Joints
- Crane Tongs
- Derails
- Dollies and Carts
- Expansion Joints
- Flange way Blocks
- Gage Rods
- Moveable Bridge Rails
- Push Cars
- Rail Anchors
- Rail Benders
- Rail Carts
- Rail Grabbers
- Relarkers
- Rubber Flange Inserts
- Skates
- Skids
- Spikes
- Steel Ties
- Stops
- Tie Plates
- Tie Plugs
- Tools
- Track Jacks
- Track Levels
- Wood Ties
- Wood Timbers
- Rail Tongs
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Products Tools for metal

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Tools for window frames

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Machines & Equipment

Technology

Technology, Expertise, Experience

Over the years, our existence we systematically implement solutions based on the achievements of the world technology, as well as experience and knowledge of our own R & D team. The driving force behind our work is the expertise and ambitions.

Machinery

We constantly modernize our machinery and introduce technologies which give confidence that our customers will receive a product that meets their expectations. Now we have a manufacturing base that allows for offering a wide range of products for the most demanding customers. Equipment is operated by qualified and experienced staff, and the production process is continuously monitored in accordance with ISO 9001 procedures. This ensures that our customers receive a product that fully meets their expectations.

Production materials from renowned manufacturers

Suppliers of materials and semi-finished products for production are reputable companies that guarantee the highest quality of their products confirmed by delivery certificates.

Cutting Tools

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Precision machining of tools is made with computer-controlled grinding machines - CNC WALTER and ITM.

A large group of cutting tools we treat by polishing and lapping with CNC machines Otec brand that increases durability and performance tools.

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Website:www.speetech.net
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Measurement of cutting tools is made with quality control is carried out on a modern, 5-axis measuring device Zoller Genius 3.
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Thermal treatment is performed in vacuum furnaces Seco Warwick, which allows to obtain a high surface quality of tools, lack of pitting and surface decarburization, corrosion resistance, and higher plasticity at the same hardness of the tool.
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Band Saw-Blades

Steel strips tooting technology is made with the use of modern production line of Normac and other CNC grinders, resulting in a high quality band-saw blades with very accurate and repeatable cutting edge geometry.

The blades saw setting is made with the numeric fully automatic saw set of Alo Center AB. The whole process saw setting is monitored by a camera system that provides highly accurate and repeatable band-saw blades setting.

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Heat treatment of band-saw blades is fully realized in Ruhstrat tunnel kiln. These devices provide a high quality of heat treatment – the proper structure and hardness.
Very important for technology operation of blades straightening is made with a Kassel brand straightener to ensure longitudinal straightness of band-saw blades.
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Ema-Elfa continues the production of wide range electrical apparatus since 1954. The products are successfully applied in many different branches from constructions, electromechanical industry, shipyards and mines.

Our objective is to create more intelligent, sustainable and innovative solutions for our customers.

The inherent skills and competence of our employees supported by continuous investments in machinery help to increase our efficiency and improve our reliability.

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Products
Electromagnetic Brakes
Powder Brakes and Clutches
Electrical self-braking motors
Self-braking motors for quiet operation (with brakes HPS..AT, 2HPS..BT)

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Electric DC motors (direct current)
Electrohydraulic Releases
Tool boxes
OZK, PZK disconnections and changer-over switches
EFM - Control buttons
ZG, ZW - Sockets and plugs
Cable Unwinders, Length Meter
Cold rolled screws and spindles

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Rolki prowadzące pili

Hyundai Rotem
Rolling stock products manufactured by Hyundai Rotem

Passenger Coaches: Safety, high speeds, and ride comfort with low operating and maintenance costs are the most important factors for passenger coaches. For many years, Hyundai Rotem has concentrated its efforts on the development of high-quality passenger coaches and has succeeded in manufacturing a bogie that offer all the desirable features by using modern CAD/CAM techniques.

EMU: One of the most advanced rolling stock manufacturers in the world, Hyundai Rotem manufactures various rolling stocks for intercity traffic and megacity transportation. Hyundai

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Rotem applies VVVF inverter control systems to the rolling stocks, and manufactures them with aluminum and stainless steel car bodies.

**High Speed Train:** As the demand for high speed trains increases, next generation Korean high speed train development and its commercialization was required, as it became difficult to have sole technical capabilities with the existing KTX core system technology.

**LRVs:** LRV is a new urban traffic method suitable for mid-scale transportation between subways and buses. The high-tech LRV is an environmentally friendly transportation method, as it does not cause smoke or noise pollution.

<table>
<thead>
<tr>
<th>Pictures</th>
<th>Period for Development</th>
<th>Vehicles</th>
<th>Remarks</th>
</tr>
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<tbody>
<tr>
<td><img src="image1.png" alt="Picture" /></td>
<td>1988. 7 ~ 1989. 6</td>
<td>HML-01</td>
<td>Element technology development</td>
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<tr>
<td><img src="image2.png" alt="Picture" /></td>
<td>1989. 7 ~ 1991. 1</td>
<td>HML-02</td>
<td>Nation's first manned record</td>
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<tr>
<td><img src="image3.png" alt="Picture" /></td>
<td>1991. 1 ~ 1993. 11</td>
<td>HML-03</td>
<td>Expo `93 demonstration</td>
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</tbody>
</table>

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<table>
<thead>
<tr>
<th>Year Range</th>
<th>Project Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1994. 5 ~ 1998. 8</td>
<td>National research task of the Ministry of Science &amp; Technology</td>
</tr>
<tr>
<td>2003. 10 ~ 2008. 9</td>
<td>Mid-term major task of the Ministry of Commerce, Industry and Energy (1 km sectional operation)</td>
</tr>
<tr>
<td>2006. 12 ~ 2012. 11</td>
<td>Maglev Practical model</td>
</tr>
</tbody>
</table>

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**Ultrasonic Flaw Detectors**

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**DMUs:** Hyundai Rotem is constantly working to develop DMUs in order to meet various needs from all over the world.

**LOCOMOTIVES:** Hyundai Rotem Diesel-Electric Locomotives (DELS) have been manufactured since the mid-1970s. With accumulated technical expertise in design and improved manufacturing methods, DELs have proven Cost effective, reliable, and superior in quality over the years.

---

**ELECTRICAL EQUIPMENT:** In accordance with the increasing demand for low energy and environmentally friendly railway vehicles, Hyundai Rotem provides optimized electrical equipment that feature light weight and low noise. Based on our vast experiences, Hyundai Rotem holds the technology to design and manufacture various electric equipment that satisfy our customer’s needs.

**Spare Parts:** All kinds of spare parts related to Hyundai Rotem.
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Characteristics

- Excellent driving capabilities
  - Maglev is propelled by a linear-motor generating traction force directly to the rail, therefore, does not slip nor slide and can easily be operated on steep gradients

- Environmentally friendliness System
  - The Maglev has no contact with the rail-wheel which allows its to make less noise and vibration and produces no source of dust such as rubber, iron and etc.

- Lower operation & maintenance cost
  - As Maglev does not depend on rotating parts that have friction and wear, it requires less maintenance labor and spare parts.

General Characteristics

Coating Thickness Gauges

Product Range

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Ultrasonic Thickness Gauges

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UV Lights & UV LED Torches

Bond Testers

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OIL ANALYZER

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- GASKETS
- EXTRUSIONS
- SEALS
- TOOLING

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- SPONGE
- SHEETING
- ANTI-VIBRATION
- ADHESIVES & SEALANTS
- ELECTRICAL SAFETY
- ENGINEERING PLASTICS & ROLLERS & WHEELS
- CASE INSERTS

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POLYURETHANE MOULDINGS

Tool Holder

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Coil Spring

Draft Gears

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Axels

Tapered Roller Bearings

Track

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Wheel

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Load weighing valve
Automatic brake
Diagnostic Slack Brake
release valve
connector adjustercylinder

Wheel Set System, High-Speed and Tilting Trains, Locomotives, Passenger, Freight Traffic Transport

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Wheel Set With independent Wheel, Monobloc Wheels and Tyred Wheels, Resilient wheels, Wheel Tyres, Wheel Set Axles, Wheel Vibration Absorbers,

UNMACHINED PARTS, AS ROLLED AND FORGED

Monobloc wheels

Wheel tread diameters

360–1.380 mm

Single piece weights

140–1.300 kg

Wheel centers

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Outer diameters

450–1.200 mm

Single piece weights:

100–640 kg

Wheel tyres

Wheel tread diameters

450–1.350 mm

Single piece weights

100–500 kg

In the following materials

All UIC materials, in-house-developed mill qualities and special grades, To customer specifications

Freight Cars
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Pneumatic Brake System for Railway Passenger Coaches

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Pneumatic brake

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System for EMU and DEMU

Pneumatic Brake System for Locomotives

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Hydraulic Brake System for Tramways

Railcar Cover Systems

We specialize and can procure gondolas and open top hopper railcars for transportation of coal and other bulk commodities. These railcars include application of our patented one-piece

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Coal & Coke

Intermodal & Automotive

center sill, the main longitudinal structural component of the railcar. The one-piece center sill weighs significantly less than traditional multiple-piece center sills, providing for higher carrying capacity and enhanced railcar productivity.

Ore & Aggregate

Industrial & Other

Coal & Coke

Intermodal & Automotive

Ore & Aggregate

Industrial & Other

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Welcome to Racine Railroad
Our principle manufacturing plant and corporate office, located in Racine Wisconsin USA, has been designing, manufacturing and servicing quality maintenance-of-way equipment to the railroad industry since 1970. Our commitment to our customers is to design and manufacture equipment with an emphasis on safety, performance and reliability.

The Engineering team uses the latest design software technology to meet our customer’s specifications. The Manufacturing team is committed to produce quality equipment that will ensure many years of reliable service in the field. Our product line is backed by one of the strongest warranties in the industry. All of our equipment is supported by our experienced Field Service team that will provide operator and repair training support. We will work with you every step of the way to ensure your complete satisfaction.

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Dual Anchor Adjuster

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Rail Gang Tie Pluggers

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TrakBoss 1010
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Diesel Power Unit
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Trak Torq
Loading Arm
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High Speed Rail Drill Electric
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Rail Contacts and Insertion Tools
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Low Voltage Insulators
Metallic Braids
Power Distribution Blocks
ERITECH® Facility Electrical Protection
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LENTON® FORM SAVER Dowel Bars
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