



COMPANY PROFILE



TECHNOLOGY

EQUIPMENT

CONTRACTED SERVICES

AFTERMARKET

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A Message from Jeswant Gill President – Harsco Rail

There is only one thing stronger than all the armies in the world: and that is an idea whose time has come. *Victor Hugo*

At Harsco Rail, we have spent over 100 years morphing ideas into innovation. As more and more cargo and passengers – move by rail, that increased traffic drives the need for inspection, maintenance and repair. Over 125 major railways around the world have chosen Harsco Rail to optimize the condition of their tracks. We are a market leader in railroad maintenance, repair and intelligent diagnostics, with the operational agility to meet a diverse suite of customer needs - and expectations. Across the globe, we're working constantly to help railways stay on track by meeting the demands of tomorrow, today. As you will see in this brochure, Harsco Rail has endured - and thrived – by both anticipating and influencing change. We bring our experience and expertise in service of our customers' most challenging needs every day, turning broad market insight into focused solutions.

I am honored to lead Harsco Rail, an organization that has surpassed its century-mark. A remarkable milestone that few businesses reach. But, for us at Harsco Rail, longevity will never be a substitute for fulfilment. We will continue striving to exceed our customers' expectations and provide innovative solutions to ensure that our railways remain a reliable, safe, and swift mode of transportation and commerce.

Excellence and ingenuity delivered on time. At Harsco Rail, we accept nothing less.



About Us

RAIL GRINDING COMPANY IN THE WORLD

Harsco Rail is the largest railway infrastructure maintenance company in the Western hemisphere. As an operating segment of Harsco Corporation, we leverage our global footprint and over 100 years of experience and expertise in service of our customers' most pressing and critical track maintenance and construc-

tion needs. From Boston to Beijing, and everywhere in between, Harsco Rail's broad range of cutting-edge equipment and technologies, service North America Class I railroads, national railway systems, short lines, and metro / transit systems to help keep both commerce and customers on track – safely and reliably.

In recent years, we have expanded our product lines and, in tandem, our geographic reach. Harsco Rail is a market leader in North America, with proven success in bellwether markets like China, Brazil and Europe. Every day, we collaborate with our customers to find finely-tailored,

EMPLOYEES IN OVER 50 COUNTRIES

technology-driven solutions to maintain track at peak operating efficiency. The result: lower operating costs, higher speeds and – most importantly – improved safety.

YEARS OF EXPERIENCE

Through our four business lines – Equipment, Aftermarket, Contracted Services, and Technology – Harsco Rail is a valued partner throughout the lifecycle of track. From construction, to maintenance, to renewal, we offer the same innovative solutions and world-class service that our customers have relied upon for nearly a century.

Certificates:

ISO 9001: 2015 EN 15085-2 DIN 6701

Our History

2018 Harsco Rail moves the division headquarters to Charlotte, NC; Harsco Rail opens office in Malaysia

2017 Harsco Rail begins handover of maintenance vehicles to Swiss Federal Railways

- 2015 Harsco Rail opens operations in India and acquires Protran Technology and JK Rail
 - 2012 Harsco Rail opens operations in China

2010 Harsco Rail opens a Mainland European base and successfully launches unmanned surfacing vehicle

- 2000 Harsco Rail opens office in Brazil
- 1999 Harsco acquires Pandrol Jackson which merges with Fairmont Tamper to become Harsco Rail
- **1992** Harsco acquires Tamper, creating Fairmont Tamper
- **1990** Pandrol acquires Jackson Jordan
- **1979** Harsco acquires Fairmont Railway Motors
- **1958** Tamper creates first completely automatic tamping workhead
- **1953** Jackson Jordan creates first multiple tamper
- **1953** Fairmont Railway Motors finalizes prototype of first electric spike puller
- 1940 Fairmont Railway Motors develops HY-RAIL ® which revolutionizes track inspection and transportation
- **1934** Tamper Corp is founded and becomes a leader in undercutters, regulators, tie equipment and UTVs
 - **1923** Jackson creates electric vibrating hand tamper and incorporates as Jackson Vibrators in 1937

1905 Fairmont Railway Motors installs two-cycle engine on a railroad hand car

Our Vision Our Mission

Our Vision

To be the global leader in track maintenance and construction by consistently creating value for our customers.

Our Mission

We will serve the industry by providing our customers with compelling solutions that address their needs by applying superior technology, knowledge and expertise.

We will meet and exceed our customers' expectations as well as deliver sustainable growth and profitability.

We will pursue excellence in the way we work and utilize our leadership competences to learn, execute, accelerate performance as well as nurture our talent.

Our Locations



Our Knowledge

Enabling TECHNOLOGY IN MOTION is about collaboration with our customers to fully understand their needs and unlocking leading edge technologies to develop innovative solutions that improve performance related to track life cycle activities.

Track construction, maintenance and renewal are important life cycle activities that our customers undertake to manage an extremely critical and expensive asset, the track. Harsco Rail is committed to supporting our customers in keeping commerce on track by offering a technology enabled portfolio of tailored products and services from our Equipment, Aftermarket, Technology and Contracted Services business lines respectively.

CONSTRUCT MAINTAIN RENEW

Extensive portfolio of offerings to cater to the respective needs for each stage of the life cycle

Industry leading product and services to address key processes within the maintain stage Through leadership and proven expertise to enable relevant technologies and offer innovative solutions for life cycle management

TRACK LIFE CYCLE

Our Portfolio

TRACK CONSTRUCTION

Equipment

- New Track Construction System
- Surfacing Equipment
- · Rail Treatment
- · Rail Heater

TRACK MAINTENANCE

INSPECTION

Equipment

- Track Geometry Inspection Vehicle
- · Utility Track Vehicles

Technology

- Track Geometry Car Inspection Equipment (Geometry, Rail Profile, Catenary, Clearance, Ultrasonic, Video)
- Hy-Rail Inspection Equipment (Callisto Track Geometry, Ultrasonic Testing)
- Trolley Based Inspection Equipment (Geometry, Rail Profile, Clearance, Ultrasonic)
- Callisto Geometry for Maintenance vehicles
- Protran Analytics Software
- · Automatic Switch Inspection Vehicle
- · Ultrasonic Measurement
- · RWP Safety Equipment
- Walking Inspector Training

Contracted Services

Automatic Switch Inspection

PLANNING

Aftermarket Parts & Services

- · Field Training Service
- · Field Planning Maintenance

Technology

- MOWIS Linear Asset Management
- · Rail Life Analysis
- Rail Test Analysis
- Compass Fleet Management System
- Expert Training and Consulting

EXECUTION

Equipment

- Production Grinder
- · Full Range of Tamper
- · Transit/Switch Grinder
- Anchor Spreader/Applicator/ Squeezer
- · Spike Driver/Puller/Reclaimer
- Insulator Replacement
- Plate Handling Machine
- · Tie Exchanger/Bed Scarifier

- · Ballast Maintenance Equipment
- · Ballast Regulator
- · Track Stabilizer
- · Multipurpose Stoneblower
- · Continuous Track Lifter

Aftermarket Parts & Services

- · Global On-site Support
- Global Part Service & Supply

Technology

- Callisto Geometry for Maintenance Vehicles
- · RWP Safety Equipment
- · Collision Avoidance System
- · Expert Training & Consulting
- Compass Fleet Management System

Contracted Services

- · Grinding Service
- Stoneblowing Service
- Dipped Rail Weld Correction

TRACK RENEWAL

Equipment

- · Track Renewal System
- · Rail Renewal System
- · Track Undercutter

Aftermarket Parts & Services

- · Global On-site Support
- · Global Part Service & Supply

Technology

· Rail Life Analysis

· Rail Test Analysis

Contracted Services

- · Rail Renewal
- Track Renewal
- · Rail Seat Abrasion

· Global Part Service & Supply

· Global On-site Support

Aftermarket Parts & Services

Contracted Services

· New Track Construction

Technology

· Absolute Track Measurement



Harsco Rail, a division of Harsco Corporation, is a major international supplier of railway track maintenance and construction equipment for private and government-owned railways worldwide. Harsco Rail provides the expert engineering and precise manufacturing that our customers have come to expect. Through our innovative solutions, Harsco Rail decreases downtime on the track, and increases productivity in the field.

Track Construction & Renewal

Harsco Rail's Track Construction and Renewal Equipment product line consists of an expanding offering of machines, designed to help the world's railways to build and maintain their track structure.

We provide a full line of high-production track construction and renewal equipment. These products have been responsible for constructing more than 13,000 km of new track, and renewing more than 20,000 km of existing lines. These large machines provide cost-effective methods of laying new track or removing and replacing ties and rail in one continuous operation. These systems can simplify material handling, reduce labor requirements and provide higher output when compared to other methods. This product line also includes several machines designed to bring enhanced value to smaller track rehabilitation projects. Our tie remover/inserters, spike drivers and fastener handlers make easy work of difficult tasks. Our latest launches demonstrate our ability to apply our latest technologies, integrate multiple functions into single units, and continue our development of autonomous machines.

The efficiency and precise control of Harsco Rail's tie machines delivers unbeatable quality throughout the industry. With continuous improvements to our product line, Harsco Rail delivers modern machines to meet the most pressing needs of our customers.



Surfacing

Maintaining the intended surface and line of railroad tracks is a key component of any railway maintenance program. For over 100 years, Harsco Rail has been a leader in developing surfacing machines. We are driven by our advances in technology to deliver robust, easy-to-operate machines that reduce the total cost of ownership while providing highquality results.

The Surfacing product line offers a variety of track tamper models that can be designed in countless configurations to meet the specific needs of each customer. State of the art machines such as Stoneblowers and our Drone Tampers, incorporate the latest innovations for longer sustained track quality and improved productivity. With Track Stabilizers, Ballast Regulators and Continuous Track Lifters we are meeting our customers' track surfacing equipment requirements.

Specialty Equipment

Harsco Rail offers a variety of vehicles for railways and contractors globally to aid in railway construction and maintenance. From our HY-RAIL® product line for customers that need road-rail vehicles, to our track-bound UTV maintenance equipment, Harsco can provide a solution.

The vehicles can be equipped with a variety of options and modules, such as cranes, compressors and traction systems. We also offer a full line of track measurement systems for these vehicles. Geometry, Rail Profile, Corrugation Measurement, and Catenary Measurement can all be fitted to any of our vehicles.

Rail Treatment

Our full line of grinders offers modular designs that can be sized specifically to our customer's needs. The machines are also designed to allow for full utilization of the machine throughout the rail life. We offer machines ranging in size from six to 120 stones and have shipped more grinders in the last 15 years than any other OEM.

Technology (Protran)

Protran Technology - a leading provider of modern innovations in the rail and transit industries - offers a suite of products designed to put our clients in control of their unique environments. Designing solutions for roadway worker and bus safety, vehicle awareness, collision avoidance, and track inspection, we give our customers the tools to oversee their own track maintenance and safety needs. Individual analysis plans give railroads the ability to inspect, analyze, and perform predictive maintenance on their track – saving both time and money. Additionally, we offer high-quality rail consulting services, state-of-theart technological solutions, track condition assessments, and a variety of rail training courses that can be customized on-site.

Measurement & Inspection

Our inspection products deliver detailed insight to railroads on the condition of their track. These tools provide railroads with specialized inspection products to perform critical inspections including Track Bed, UT, Geometry, and Catenary inspections. Protran Technology provides tools that allow the end user to determine how to improve track life by analyzing current track conditions and planning for future maintenance demands. These inspection products ultimately help railroads understand their track and how to best maintain it, decreasing maintenance costs for the future.

Diagnostic Software

Reporting data directly to the customer, Protran Technology provides numerous software svstems that assist railroads in vehicle maintenance, track analysis, maintenance planning, and maintenance forecasting. For track work, each software tool provides accurate reporting on a variety of different properties including track condition, rail life, status of ties, and switch inspections. Protran Technology also provides telematic solutions for MOW equipment, giving vehicle maintenance managers the tools necessary to efficiently perform maintenance on MOW Equipment from remote locations a period.



Services & Trainings

We offer technical training on topics pertaining to the railroad industry, including Track Inspection, CWR Maintenance, Derailment Investigations and General Track Maintenance Management. Through the instruction of expert trainers, these courses will educate railroad employees from all sectors. Protran also offers a full line of high-quality rail consulting services, including assessments, rail/ wheel interface and general track engineering work. These services are tailored to the needs of the customer, and serve to provide insight into necessary maintenance and construction needs.

Rail Safety Solutions

Protran Technology provides a variety of cutting-edge safety solutions for the railroad industry, including advanced train detection, adjacent track protection, collision avoidance technologies, personal alert devices, electrical awareness and specialized safety training. We are the industry leader in supplying ways to protect and educate your employees, contractors, and customers.

Bus Safety

Protran's "Safe Turn Alert (STA)" gives an audible and visual alert to nearby pedestrians when a bus is making a turn. The system also gives an audible voice alert to bus operators to look both ways when making left or right hand turns. The system is a passive system, activating automatically without the bus operator's interaction. Protran's "Blind Spot Awareness" further enhances the Safe Turn Alert system by providing additional safety awareness to bus operators. By combining these two systems, Protran delivers a safer bus interaction experience for operators and pedestrians alike.



OEM Parts

Harsco Rail is dedicated to fulfilling the needs of our customers long after the purchase of our equipment. Through spare part packages and inventory availability, Harsco Aftermarket aims to support our machines with timely response and ongoing service recommendations. From a global aspect, machines can be supported from strategic continental locations utilizing warehouse space to maximize delivery of OEM quality components.

Technology Upgrade Kits

Harsco Rail works continuously to improve the functionality of our machines by listening to our customers, and developing strategic parts and kits that bring older machines into current specifications. The Jupiter II control system's comprehensive diagnostics and intelligent machine automation significantly increases production and quality through data-driven performance. Harsco has over 1000 Jupiter control systems installed and operating on MOW equipment worldwide.

Technical Service and Equipment Training

Harsco Rail's OEM certified technicians provide 24/7 technical support on-site and through our customer support hotlines. Our experienced and dedicated team of professionals can troubleshoot issues by phone and can provide onsite assistance when needed to maximize equipment uptime. Operator and mechanic training programs are available anywhere in the world. Our regular equipment training schedule and class registration for Harsco Rail tampers and grinders can be found at www.harscorail.com.

Harsco Rail provides a full range of parts and service offerings, including OEM genuine replacement parts, on-site technical assistance to troubleshoot and repair equipment, and training programs to minimize machine operating costs. Harsco Rail's service representatives are deployed around the world for fast, responsive support, and have well over 600 collective years of experience servicing MOW equipment.



JK Rail Products

Quality Engineered Products for your High-Performance MOW Needs. JK Rail Products work directly with our customers to resolve their most complex issues, by identifying field problems and executing solutions. All JK Rail Products are currently in stock with immediate availability. The current JK Rail Products catalog is available for download at

www.harscorail.com/parts-services.

Equipment Life Extension Program

Harsco Rail can perform or support your machine remanufacturing plan. Whether through a basic in-house heavy maintenance machine refreshment or a complete overhaul, Harsco can extend the life of your machine and enhance the capability to current specifications.

Remanufactured Components

As the original equipment manufacturer, Harsco Rail provides superior remanufactured components and assemblies to both repair and extend the life of equipment. We keep remanufactured work-heads in stock for our entire fleet of Mark (II, III, IV and VI) and Jackson (2400, 3000 and 6700) tampers. All components are inspected for repair or replacement, functionally tested and backed by our OEM warranty.

Contracted Services

New Track Construction

Rail Grinding

Harsco Rail's contract NTC units have installed over 4,000,000 ties (equal to 1,515 miles or 2,400 km) around the world. The NTC can readily complete one mile or 1.5 km per day. Harsco Rail operates two units in the United States and has supplied units in Italy, Northern Ireland, Brazil, India, England, Canada, Saudi Arabia and China. Harsco Rail has been grinding rail for over a half century. Our rail grinding services strive to create optimal wheel / rail contact, while prolonging the lifespan of the track. The RGH20C Grinder can effectively grind switches, guarded curves, and road crossings and is available in various gauges, including an adjustable gauge version.

Stoneblowing

Harsco Rail's Multipurpose Stoneblower is a revolutionary machine developed specifically as an alternative to traditional tamping methods for the restoration of track's vertical and lateral alignment. The result is a smooth track surface that is immediately available for unrestricted line speeds. The Stoneblower pneumatically injects ballast under the tie to achieve track position accuracy of 1.0 mm without disturbing the pre-existing compacted foundation.

Through Harsco Rail's Contracted Services segment, customers can secure reliable, full-service maintenance by work crews that know the machines' operation and upkeep best. Over the last 40 years, Harsco Rail's Contracted Service teams have covered more than 640,000 kilometres of track, consistently achieving industry leading-production rates and high-quality output.



Dipped Rail Weld Correction

The Dipped Rail Weld Correction is an on-track maintenance machine that corrects the geometry of vertically-dipped Aluminothermic or Flash Butt Welds. This unit uses a beam, rail clamp, hydraulic cylinders, instrumentation and a PLC to correct the dipped weld. Including set-up over the weld, the dip is removed in approximately 60 seconds, and it can lift a dipped weld to a predetermined, operator adjusted peaked condition, usually 0.3 mm, + - 0.1 mm.

Rail Renewal System & Rail Heater/Clipper

The Rail Renewal System is a self-contained unit that offers a cost- efficient, high-production means to replace rail and pads on concrete ties. It also is capable of epoxy repairs for rail seat abrasion. The consist can complete work on both rails simultaneously at 792 mph or 44 ft./min. (0.5 mph). It carries material (pads, insulators, epoxy) for over 3.2 km (2 miles). The induction heating process allows for rail destressing as work is being done and eliminates the fire hazards associated with propane use.

Track Renewal

Harsco Rail's contract track renewal systems have installed approximately 15,000,000 ties (equal to 5,700 miles or 8,500 km). The TRT909 & P811 work with concrete, pre-plated wood, or steel ties. The TRT909 & P811 system provides a more efficient method of handling major renewal projects with precise tie spacing and a smooth ballast bed, while at the same time reclaiming the old sleepers.



Our goal is simple, Zero Harm!

Our Environmental, Health & Safety (EH&S) vision is Zero Harm to people and the environment so everyone can enjoy life at work, home, and play. Harsco Rail is committed to operating in a manner that protects and sustains the safety, health and wellness of our Harsco colleagues, our customers' employees, contractors, suppliers and the communities in which we live and operate. We will be in compliance with applicable statutes, regulations and ordinances throughout our worldwide operations. Based on proven beliefs and principles, our EH&S program empowers the organization and individuals to achieve the highest level of safety and environmental performance. The foundation of our EH&S program is built on the principals derived from the Corporate philosophy within Harsco's EH&S Framework guidelines.

Our training programs not only comply with regulatory requirements for physical hazards, addressing topics such as Hazard

Communication, Energy Control, and Machine Guarding, but they also emphasize human behavior through relation base safety activities and our leadership training courses. With strong Senior Management involvement and participation, the Safety, Health, and Environment department communicates safety through Site Assessments, Environmental, Health and Safety Alerts, Monthly Tracking Reports, Incident Review, Safety Committees and Weekly and Monthly Safety Meetings. We are committed to continuous improvement of risk reduction to safe guarding our personnel, environment and equipment through industry leading technology as an essential element of doing business. Our effort to continuously improve safety and environmental performance is evident in the development of our integrated management system.





Harsco Rail will endeavor to protect the environment and be a responsible member of the communities in which we operate. We will do so by following the key principles expressed in our Environmental Policy and as follows:



Environmental Leadership

Harsco will strive to be a leader by identifying and implementing environmental best practices.



Environmental Management Systems

Harsco will maintain management systems that promote compliance with applicable environmental laws and regulations.



Performance

Harsco will operate in ways designed to reduce impacts to the air, water and land. Waste will be properly managed and noise impacts will be appropriately controlled.



Continuous Improvement

Harsco will maintain management systems that promote compliance with applicable environmental laws and regulations.



Sustainable Business Operations

Harsco will commit to the efficient use of resources by conserving energy and pursuing waste minimization opportunities.

Quality

Our goal is to provide our customers with products of the highest quality

With our strategy "Quality At The Source", every employee assumes responsibility for the performance, consistency, safety and value of our products. Customer focus is the backbone of our ISO 9001 compliant quality sector of our integrated management system.

On this basis, all processes are regularly monitored, and process effectiveness and efficiency are continuously improved. This enables us to offer our customers first-class products and services that meet and exceed our customer expectations.



Our People Our Values

Our team of motivated employees are crucial for our company's success. Harsco Rail understands the importance of attracting qualified employees and providing them with the necessary tools for a long-term career. Based on our strong corporate values, we strive to create a culture of learning, growth and inclusion. Our values are the link that connects us all. These values reflect our overarching direction and purpose as a business.



Integrity

We demonstrate an uncompromising commitment to ethical principles. We act ethically and in the interest of the customers we serve. We treat others with dignity and respect, and value honesty above all else.



Passion For Winning

We are passionate about winning through creating exceptional value for our employees, customers and shareholders. Excellence is not an act, but a habit.



Employee Care

We are committed to safe, appealing work environments, market-competitive benefits programs and investment in personal development. We must treat our people as we would like to be treated ourselves, and we must attract and retain the very best talent throughout our organization.



Satisfy The Customer

We are engaged in the relentless pursuit of customer satisfaction by listening to the customers' needs, and consistently delivering value that exceeds their expectations.



Inclusion

We strive to create an environment where all people are actively included. Our diverse global workforce is our most valuable asset. We must foster a climate in which every employee is encouraged to engage and dedicate his or her talents and experience.



Respect

We respect all individuals and their contributions. Harsco will not tolerate discrimination or harassment of any kind. Our employees have a right to a safe, respectful workplace. Our management has a mandate to provide it.

Our Customers



Imprint

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The HARSCO RAIL equipment pictured in this brochure is intended to illustrate the general appearance and features of the product. It is equipped as specified by a particular customer and may or may not show items that are optional or recommended by HARSCO RAIL, Harsco Corporation. Specifications, illustrations, and descriptive materials herein were accurate as known at the time this publication was approved for printing. HARSCO RAIL, Harsco Corporation reserves the right to discontinue models or options at any time or change specifications and materials, equipment and design without notice and without incurring obligation. Federal, State or Provincial, and/or local laws and regulations may require additional equipment for the particular use intended for this product. It is the buyer's responsibility to determine the applicability of such laws and regulations to the buyer's intended use for the product and to arrange for the installation of the required equipment.

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Design Laurie Laurito: www.lovely-pixel.de

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