



RAIL



NJR RAIL

NJR Rail – Certified Innovation for the Rail Industry

NJR Rail provides battery-powered tools and specialist rail solutions trusted around the world. Founded by rail professionals with over 75 years' combined experience across the UK, Europe, the Americas, Australia, and South East Asia, we bring global expertise with a local focus.

Every tool in our range carries Network Rail Acceptance Certification – the benchmark for international rail safety and performance. This ensures our partners in Malaysia and across the region benefit from equipment proven in the most demanding rail environments.

Beyond tools, NJR Rail leads in welding and Stress-Free Track (SFT) management, combining advanced technical capability with a strong commitment to sustainability. Our solutions come with sustainability reporting data, helping clients improve environmental performance while maintaining operational excellence.

Our mission is simple: to deliver certified, high-quality solutions that enhance safety, efficiency, and productivity for rail professionals throughout South East Asia.

BATTERY POWERED

FROG & SWITCH POINT GRINDING MACHINE

For grinding various types of turnouts, including crossings, switch blades, frogs, and guard rails, to remove burrs and protrusions.

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- Equipped with a locking mechanism that allows for quick adjustment and secure locking of the grinding unit, enabling rapid positioning and fixation of the grinding location.
- The grinding wheel can be tilted up to 30 degrees to enhance grinding efficiency and performance.
- Delivers grinding accuracy of up to 0.1 mm, ensuring high precision and meeting the stringent requirements of high-speed rail applications.
- Powered by a robust motor and a high-performance battery, providing continuous power with low operational noise, zero emissions, and significantly simplified daily maintenance.

RAIL PROFILE GRINDING MACHINE

Designed for grinding rail head tops, gauge faces, and head edges to remove weld flashes, burrs, and protrusions at rail joints.



- Features a 90° vertical-to-inward pivoting capability, enabling continuous grinding of rail head tops, gauge faces, and head edges. Effectively removes weld flashes, burrs, and protrusions at rail joints, combining ease of use with high-precision grinding performance.
- Powered by a high-torque motor and a proprietary high-performance battery system, ensuring continuous power delivery with low noise, zero emissions, and minimal maintenance.
- Integrated controller includes a digital feed rate display for real-time monitoring during operation.
- Equipped with a preset grinding depth and automatic reset function to prevent over-grinding while maintaining the optimal rail profile.

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VERTICLE RAIL & SWITCH GRINDING MACHINE

Specifically designed for deburring and grinding the top surface and inner side of railway tracks, including all types of rail switches, rail heads, frogs, and other track components.



- The grinding angle can be locked at any position between 20° outward and 70° inward, allowing for flexible and precise adjustment.
- Equipped with a guide rail for lateral movement, providing superior stability and high positioning accuracy during operation.
- Supports multi-unit collaborative operation, enabling comprehensive grinding of all rail surfaces in a single pass to meet profile requirements, greatly enhancing overall efficiency.
- (Standard configuration for collaborative operation: 5+2 units).

RAIL PROFILE GRINDING MACHINE

Designed for deburring and grinding the top surface and inner side of railway tracks, this equipment is suitable for all types of rail components, including switches, rail heads, frogs, and other complex geometries. It delivers precise and consistent surface finishing, making it ideal for maintenance tasks that demand versatility, high performance, and reliable operation in confined or irregular track areas.



- LED display screen provides a clear visual presentation of grinding data for real-time monitoring and operational control.
- Small-diameter profiling wheel is designed to grind short-pitch corrugations within 100 mm, enabling more precise and accurate rail profile restoration.

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ABRASIVE RAIL SAW

Designed for rail cutting applications in railway tracks



- Powered by a lithium battery with a real-time display of remaining battery level, voltage, current, and battery temperature for enhanced monitoring and operational efficiency.
- Fixed-arm rail clamping mechanism minimizes operator fatigue, while bilateral accessory mounting allows cutting from both sides for greater flexibility.
- Magnesium-aluminum alloy protective cover prevents spark scattering, ensuring improved safety for the operator.
- Detachable external battery design reduces overall machine weight, enhancing ergonomics and ease of handling.

TAMPING MACHINE

Specialised tool for railway ballast tamping.



- Lightweight design allows for easy on/off-track handling and operation by a single person, enhancing mobility and efficiency.
- Dual-stage vibration damping system ensures operator safety and protects long-term health by minimizing exposure to vibrations.
- Non-impact operation eliminates the risk of damage to ballast and sleepers, ensuring safe and effective use in track environments.

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PORTIBLE IMPACT WRENCH

Used for bolt installation and removal on rail tracks.



- Waterproof design allows reliable operation in rain and snow, ensuring all-weather performance.
- Powered by a lithium battery with extended runtime for enhanced productivity and reduced downtime.
- Intelligent control system features adjustable torque settings to accommodate various rail types and tightening requirements.
- Equipped with overload protection to ensure operational safety and prevent equipment damage.
- Delivers ultra-high torque of 2000 N·m for effortless tightening and loosening of bolts.

COACHSCREWING MACHINE

Used for bolt installation and removal on rail track sleepers.



- Delivers torque up to 3000 N·m, providing exceptional output to meet a wide range of bolt pre-tightening requirements.
- Equipped with a traveling stand designed to support extended operation, enhancing stability and ease of use during prolonged tasks.



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RAIL DRILLING MACHINE

Suitable for track drilling applications across all rail profiles



- Smart drilling control with speed stabilization and an integrated battery status indicator ensures efficient and precise operation.
- Compact, lightweight design at just 16.5 kg for easy handling and portability.
- Drills standard 31 mm rail holes in under 20 seconds, providing fast and consistent performance.
- Tool-free quick-assembly design allows rapid setup and convenient operation.
- Weatherproof construction enables reliable use in all weather conditions.
- High-capacity battery delivers up to 40 holes per charge, maximizing efficiency and productivity.

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