

QUIKWELD™ RAIL E-FLASH-BUTT™ WELDING SOLUTIONS

AMERICAN RAILWAYS™, a US RAIL™ Company, is an original manufacturer of electric flash-butt rail welding machines, delivering advanced, high-performance solutions for modern rail infrastructure and high-speed rail systems in the United States and worldwide. Our E-FLASH-BUTT™ systems are available in multiple configurations to meet diverse operational requirements, including mobile in-track welding systems, off-track welding systems, truck-mounted platforms (diesel or zero-emission electric trucks), motorized low-profile rail cars, railcar-mounted welding systems, and stationary factory or depot installations. All machines are universal, state-of-the-art, and engineered for precision, durability, and productivity, supporting E-FLASH-BUTT™ welding of all standard, high-speed, and custom rail sizes.

READY FOR SERVICE — DAY ONE

AMERICAN RAILWAYS™ E-FLASH-BUTT™ rail welding machines are delivered ready for immediate operation, whether deployed in-track, off-track, or in a factory environment. Each system is supplied as a complete, self-contained solution, including integrated power system (diesel generator or fully electric battery configuration), smart control AUTRAI® software with automated welding logic, internal cooling system for process stability, and onboard consumables and spare parts. This integrated design ensures consistent weld quality, maximum efficiency, and industry-leading productivity.

HIGH-FORCE PRECISION WELDING

The E-FLASH-BUTT™ welding head is engineered to deliver up to 150-ton (150T) pulling force, ensuring precise rail alignment, closure welding, controlled flashing and forging, tight dimensional tolerances, and superior metallurgical integrity. An optional narrow welding head is available for tight working areas such as switches and crossings. The system completes the full welding cycle—alignment, pulling, flashing, forging, and removal of excess material—in a single automated sequence, operated via wired or wireless controls, either on-site or remotely.





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NARROW HEAD FOR SWITCHES & CROSSINGS

Our narrow welding head with integrated heat treatment is engineered to navigate tight rail geometries, enabling precise welding near switches, crossings, and restricted clearances. This specialized design delivers versatile performance while maintaining full compatibility across standard welding applications within a single universal system.

QUALITY ASSURED — INDUSTRY APPROVED

AMERICAN RAILWAYS™ E-FLASH-BUTT™ systems meet or exceed major international standards, including US RAIL™ AREMA® Chapter 4, UIC, EN 14587 European flash-butt rail welding standards, Chinese railway standards, and European high-speed rail requirements.

INDUCTION HEAT TREATMENT — HIGH SPEED RAIL

Available built into the flash-butt welding head or as a separate system, our induction heat-treatment technology provides automatic, precision-controlled post-weld heat treatment engineered specifically for high-speed rail applications.

The system precisely treats the weld and heat-affected zone to optimize metallurgical properties, increasing strength, resilience, flexibility, and long-term durability under demanding high-speed rail loads. Unmatched precision engineering for superior rail weld performance.

INTERNATIONAL VISION & INNOVATIVE PROCESS

Our systems support a wide range of global rail profiles, including US RAIL™ AREMA® 115RE-136RE, UIC 54-60, Japanese, Chinese, High-Speed Rail, and custom rail sizes. Factory Acceptance Testing (FAT) is performed in the United States for every machine to verify quality, accuracy, and productivity prior to delivery. Tooling can be configured to accommodate additional international rail standards as required.



CLEAN ELECTRIC BOND RELIABILITY

E-FLASH-BUTT™ welded rail joints, developed by AMERICAN RAILWAYS™ (U.S. Patent Pending — Provisional Application No. 63/805,289), create a true, clean electric flash-butt bond between rail segments. The resulting welds are equivalent to Continuous Welded Rail (CWR) in accordance with AREMA® standards, in support of FRA 213 requirements. This type of welding is the internationally preferred joining solution, used in the United States, Canada, Mexico, Brazil, Japan, China, Australia, and Europe.

SUPERIOR WELDING RESULTS — REDUCED LABOR TIME

A simplified, automated, and patented welding process reduces errors and failure rates while improving productivity and lowering total labor costs. Features include automatic alignment, closure welding, and de-stressing capabilities.

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FAST RELIABLE EQUIPMENT & SOFTWARE TROUBLESHOOTING SUPPORT

Dedicated teams of engineers and technical specialists provide responsive maintenance, software troubleshooting, and parts support across the United States, Canada, Mexico, and select international locations.

CONTRACTED E-FLASH-BUTT™ WELDING SERVICES

AMERICAN RAILWAYS™ Mobile Division offers on-site E-FLASH-BUTT™ welding services throughout the United States. Services are performed by certified personnel using specialized equipment and approved materials.

COMPLETE HI-RAIL TRUCK SOLUTIONS

AMERICAN RAILWAYS™ provides complete, in-house Hi-Rail truck solutions, including custom fabrication, chassis modifications, structural welding, body integration, custom painting, and installation of Hi-Rail gear on most commercial truck platforms and chassis. As a California commercial truck dealer and chassis builder, AMERICAN RAILWAYS™ supports most Class 4–8 commercial and heavy-duty trucks, providing customers with a single-source solution from chassis selection and engineering through fabrication, Hi-Rail integration, finishing, and delivery.





US RAILWAYS™ ACADEMY ANNUAL CERTIFICATION & TRAINING

In accordance with AMERICAN RAILWAYS™ & US RAIL™ procedures and manuals. Only currently certified welders by US RAILWAYS™ ACADEMY are authorized to perform E-FLASH-BUTT™ rail-to-rail welding. Training covers welding theory, hands-on operation, software, equipment safety, site procedures, productivity optimization, and defect prevention. Training is available year-round—including weekends and holidays—at U.S. facilities, job sites, or contractor locations.

PURCHASE, LEASE TO OWN, SHORT AND LONG TERM FLEXIBLE RENTAL PLANS

To support American rail contractors, we offer our machines through flexible acquisition options tailored to project and cash-flow needs. Options include purchase, lease-to-own, and short- or long-term rentals, all financed directly by AMERICAN RAILWAYS™—with no banks or third-party finance firms involved.

SAFETY & IP NOTICE

WARNING: AMERICAN RAILWAYS™ and US RAILWAYS™ products shall be used only as illustrated and recommended in the product instruction sheets (additional instruction sheets are available at www.AmericanRailways.com and www.usrailways.com). Misuse or misapplication may cause failure resulting in possible property damage or bodily injury. Information provided is subject to change without notice.

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