



**Holland is the industry leader in the field of flash-butt welding**, not only in terms of available resources, but also in experience and dedication to the continual development of new technology that enables us to adapt to the evolving requirements of the global railroad community. Over the last 85+ years, our systems have proven to be the most reliable and productive in the industry, with over 30 million welds performed by our own employees on Holland designed and manufactured equipment. Globally, we support our partners with flash-butt rail welding equipment, service, parts, training, and application knowledge that allow them to make a quality Holland weld every time.

# BENEFITS OF FLASH-BUTT WELDING VERSUS THERMITE WELDING

Features	Flash-Butt Weld	Thermite Weld	Flash-Butt Advantage
Basic Metallurgy	Forging	Casting	Joint is as good as parent material. No porosity, voids or inclusions. No filler material.
Automated Process	Yes	No	Less dependent on operator skills. Consistent, higher quality.
Heat Affected Zone	40-60 mm	145-185 mm	Better head wear surface under traffic
Full Rail Profile Shear	Yes	No	Better fatigue life of joint. Flush rail - no protrusion.
Personal Hazard	Low	High	No molten metal masses
Failure Rate	Low	High	Higher efficiency and productivity

## H-650 (65 TONNE)

- High mobility & ease of operation
- Welds all rail types
- Integral automatic shearing system
- Replaceable electrode inserts lowers cost of operation
- Welding of long strings of rail (up to 400 meters)



## H-1000 (100 TONNE)

- Horizontal clamp cylinder configuration
- Ability to drag/position long lengths of rail
- Welding of all rail types
- Integral automatic shearing system
- Replaceable electrode inserts lower cost of operation
- Welding of long strings of rail (up to 400 meters)



## 145 TONNE SUPER PULLER

- Designed for closure welding and rail destressing
- Can be operated manually or independent of welding machine
- Releases stress on welder and physical loads for manpower
- Independently controlled hydraulic jacks for precise alignment
- Highest capacity to weight ratio in the industry
- 38 cm (15 inch) stroke length available for closing large rail gaps



## G-HEAD (80 & 130 TONNE)

- For welding specialty rails for overhead and portal crane applications
- 130 tonne welding machine has capability to weld A120 and A150 rail
- Long umbilicals for crane applications





# EQUIPMENT CONFIGURATIONS

In addition to providing our customers with a variety of flash-butt rail welding machines, Holland offers several versatile equipment configurations to help deliver the welds to your track in the most efficient and productive manner.



## SKID TYPE FLASH-BUTT WELDER

Our Skid Welder provides the basic components to perform quality flash-butt welds and allows the customer to utilize their own equipment carrier, power unit and welding machine handling apparatus.

## CONTAINER WELDER MACHINE

Our Container Welder provides the complete welding package, including a power unit and welding machine manipulator, in a compact and efficient configuration. It can be used as a stationary welding machine to generate long welded rail sections or on a customer supplied mobile carrier to deliver in-track welds.

## FLASH-BUTT MOBILEWELDER®



Our MobileWelder® was first introduced to the industry and pioneered by Holland in 1979. This versatile flash-butt welding machine is a virtual mobile welding plant that can travel both on the rail and on the highway and is most easily relocated from one job site to another.

# CURRENTLY SUPPORTING FLASH-BUTT WELDING IN OVER 36 COUNTRIES

Our core values of family, respect, partnership, integrity, and improvement provide the foundation for everything we do. For our partners, this means we deliver our commitments to safety: striving towards zero injuries and accidents; quality: providing quality products and services and continually looking for ways to improve; and leadership: developing industry leading technology and employees.



## PRE-SALE ASSISTANCE

Holland will explore your company's specific needs including your unique application, environmental or certification requirements. Training and support needs are analyzed to ensure your solution is the right fit and within your budget.

## CONTINUED POST-SALE SUPPORT

Holland's commitment doesn't stop once the first weld is made. We continue to provide you with training, operator certifications, parts and maintenance support. Replacement parts are inventoried and normally ready to ship within one business day.

Certifications include:

AREMA Chapter 4 – Rail 80-ES-035F-99-7001 / Network Rail / United Kingdom / Flash Welding Rails Standard EN 14587 – 2 / European Standard for Mobile Welding Machines Section B11 400 / Australian Standard AS 1085.20 / Other country and local welding standards such as Malaysia, Singapore and Hong Kong TB 1632-85 / Taiwan Rail Welding / Department Standard of Rail Department of the Peoples Republic of China / Government of India Ministry of Railways - Manual for Flash Butt Welding of Rails / Africa Field Welding of Rail Joints / Brazil Section 02467

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