

Flash-butt welding provides your railways with the **highest quality weld** ultimately reducing your maintenance costs over time. Save track time with a faster installation and a longer life cycle compared to thermite welding.

Holland's Intelliweld® control system provides **unparalleled control over the flashing process and rail consumption**. This system features real-time weld monitoring, control and diagnostics along with a detailed analysis on conclusion of each weld.



- Reduces maintenance costs
- Faster installation
- Lowest life cycle cost
- Saves track time
- Minimizes corrugation

- No weld filler material
- Smaller heat affected
- Smaller annealed zones
- Consistent hardness
- Highest fatigue resistance

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

Multiple Equipment Configurations

- Fixed Plant
- Portable Plant
- In-Track
- All-Terrain



Traditional Thermite Welding Case

Holland's Flash-Butt Welding Equipment Solution

Turnout Repair Welding

Holland's Extended Reach Mobile Welder is a boom-crane equipped portable welding system, capable of deploying the welder head up to 40 feet (32 feet with welder head and puller) to the side of the truck.

3rd Rail Territory

Holland's all-terrain welding units have the ability and versatility to weld in third-rail territory. This welding unit is designed to access welding locations that a conventional welding truck cannot reach.

Tunnels / Low Clearance

Holland's containerized welding system is used in complex welding locations on transit systems and more. Our modular welding platform is designed to be used to weld CWR in for tunnel projects or areas with low clearance.

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