



# ELECTRIC FLASH-BUTT CRANE RAIL WELDING

## DECREASE WELD TIME AND MAXIMIZE YOUR SAVINGS



### COMMITMENT

Time and money – that's the bottom line of any job, no matter what the business. At Holland, we speak your language. Using the latest technological advances in mobile welding, Holland can supply you with everything from equipment to personnel in a total commitment to your project from start to finish.

### FLEXIBILITY

#### To Get Any Job Done, Anywhere

Holland Electric Flash Butt Welders are complete, self-contained welding plants that showcase the G-Head, a special welderhead that is specifically designed for crane or gantry rail, and features a complete, electric flash butt welder system. Holland MobileWelder® trucks even come complete with a diesel generator set and an overhead boom crane that lifts the welderhead when welding on the ground. When working overhead, the welderhead is suspended

from an independent hydraulic crane. Unmatched flexibility allows the MobileWelder® to work inside your building or on any open construction site.



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## INNOVATION

### The Exclusive K 355G Welderhead

The K 355 G is considerably different from other welding methods because of its unique shape – especially adapted to accommodate the wide shape of crane rail. It is completely self-sustaining, with 120 feet of umbilicals connecting the welderhead to the diesel motor/generator set, producing all operational power for the equipment. The Portable Electric Flash Butt Welder K 355G gives a better quality, longer-lasting weld that assures longer rail life, fewer rail and wheel replacements, and fewer crane repairs. Holland's K 355 H Welderhead welds standard AREA, UIC, and other rail sections as the only one of its type in North America.



## LEADING EDGE

### Quality Work With a Birth Certificate

All Holland Electric Flash-Butt Welders are American-built using the latest in world-class technology. The automated process for joining sections of rail was described by *Iron and Steel Magazine* as "the most cost-effective method of welding crane rails." It aligns the rail, charges them electrically and hydraulically forges the rail ends together, melting the two parent ends together. The welderhead automatically shears upset metal to within 1/8" of the rail profile. A base grinder removes the 1/8" flashing material from the rail, which leaves a smooth base and greatly reduces the likelihood of stress risers, which shorten the life of the rail. The sides and head of the rail are also ground to the profile of the parent rail. All steps contribute to the complete job that is needed to make a quality weld. That quality is assured through Holland's own "birth certificate," which is produced for every weld made on the job, giving your company a permanent record of the weld as it was being made.

## PRACTICALITY

### An Amazing Weld Time of 90 to 270 Seconds

The most important feature of the Electric Flash Butt Welders is the weld time itself. Holland Electric Flash Butt Welders have the capacity to weld rail in an efficient 90 to 270 seconds. That's up to six welds per hour, saving your company valuable down time. With Holland's Intelliweld™ Control System, the totally computerized system reduces human error and allows the welding program to be changed according to the chemical properties of the rail. This increases the basic quality of the weld, and the weld lasts the life of the rail. Also, because the MobileWelder® works quickly and efficiently, it saves your employees valuable time, allowing them to work on other maintenance projects. All this comes together to save you money, reduce your budget and allow you to spend the difference on other important projects.

## CONFIDENCE

### In Holland's Strength and Durability

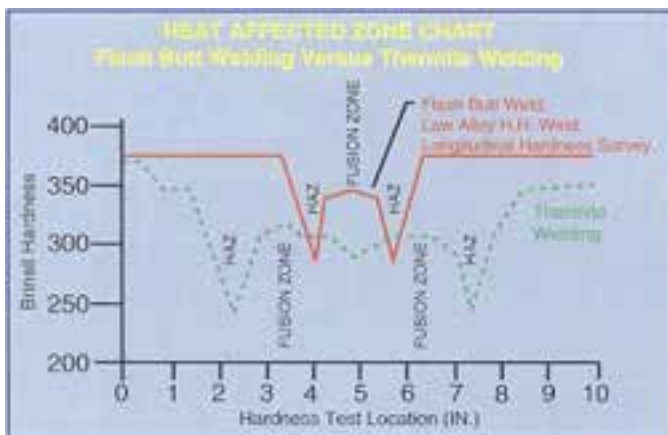
On the ground or on the craneway, Holland MobileWelders™ produce welds of unmatched strength and durability that greatly increases the life span of your rail over such methods as joint bars with bolts, hand arc/stick welding, and thermite welding. Problems like bearing failures, broken axles and wheels, fatigue cracks, and sheared bolts are simply not a problem when the Electric Flash Butt Method is involved in the production process. Holland welds are 10 times better than those produced by other welding methods when comparing success-to-failure rates.



## PROOF

### Consistent Brinell Hardness Readings

As you can see by the comparison chart below, Holland produces an extremely narrow heat affected zone, which in turn means you are getting the highest quality weld possible. This also means you get a more consistent Brinell Hardness Reading, signifying no hard or soft spots that will cause the welds to deform and ultimately fail.



## PERFORMANCE

### Proven a Million Times Over

Some of the largest companies in the United States have used Holland equipment and personnel to tackle tough assignments nationwide. Industry leaders such as Bethlehem Steel, Alcoa, LTV Steel, U.S. Steel, Armco, and Caterpillar have depended on the Electric Flash Butt Welding process and so has the Kennedy Space Center, the Port of Baltimore and the Portsmouth Naval Base Dry Dock. Over 5,000,000 Flash Butt welds have been produced by Holland. Our equipment has performed over 30 million flash-butt welds across the globe.

## ADAPTABILITY

### To Any Type of Project

Whether your company produces steel, aluminum, or pulp products; or whether it is involved in ship building, dry dock operations, or container loading/off-loading; Holland can provide what's needed for your project and can provide the machines and people to work on overhead cranes, where the runways range 35 feet to 90 feet in the air; ore bridges, where the height is 90 feet and more; ground-level gantry cranes, and portal cranes. Holland MobileWelders™ can also work with unique rail sizes, ranging from 60 to 175 pounds per yard.