

Holland[®] LASERWELDER

A NEW STANDARD FOR SAFER, LONGER LASTING REPAIRS



Railroads report that traditional repairs to frogs often only last weeks to six months before requiring additional maintenance. Frogs are manufactured out of cast austenitic high manganese steel known for its excellent work hardening characteristics and high toughness. However, this material creates a unique challenge to repair in the field as it cannot exceed 500 degrees Fahrenheit.

Holland's LaserWelder™ service includes pre-weld material removal using plasma cutting and robotically controlled hot wire laser cladding welding to build back the damaged area.

This process provides improved welding through lower heat input, on parent material, maintaining temperatures below 500 degrees. The resulting repair is higher quality, longer lasting and can be completed two to three times faster than a traditional repair weld. This helps reduce costs and maintenance time, keeping your track up and running.

LaserWelder Benefits

SAFETY

- Low fumes given off
- Operator not over the fumes
- Operator can move away while train passes on adjacent track
- No back strain from long hours working over a frog

SPEED

- Complete repairs 2 – 3 times faster
- Do a complete repair to full dimensions rather than patch repair
- Complete more repairs sooner to extend life of frogs
- Significant saving
- No flux required, so no peening or slag removal needed

QUALITY

- Improved welding process for more precise welding with low porosity
- Low heat input monitored to keep base material below 500°
- Longer lasting repair