

# Automotive Center Lamp Assemblies

Branson™ plastics welding responds to trends with cutting-edge aesthetics

## SOLUTION



### Meeting challenging new trends in auto lighting

New center tail-lamp designs for today's automobiles present you with a new set of challenges. Parts are bigger, usually up to 1400mm, and their 3D shapes are highly decorative and mostly visible. You need to achieve tight tolerances on thin parts, with particulate-free welds, while protecting delicate components and embedded electronics.

### We offer better assembly solutions

Emerson application engineers use a process-neutral approach when determining the optimum joining technologies for center lamps. We understand how critical constant product evolution is for companies like yours. So, we constantly evaluate the pros and cons of different technologies and work collaboratively with you to increase assembly efficiencies and give you a competitive advantage in this dynamic new market.

**BRANSON™**

  
**EMERSON™**

**CONSIDER IT SOLVED™**

## Branson welding solutions for center lamp designs

As center lamp assemblies become more sophisticated, auto designers and lighting suppliers have discovered that conventional plastic welding techniques fall short of their quality and production goals.

Branson GLX Series laser welders and GVX Series Clean Vibration Technology (CVT) welders deliver superior weld strength and aesthetics, including clean, precise weld lines, with no flash, while avoiding damage to delicate electronics. Our iterative design approach — from the idea for a product through successful manufacturing and delivery — ensures a well-engineered manufacturing solution matched to industry requirements.

### The Branson GLX-4 laser welder for high-speed, high-volume welding of complex, large plastic parts

- Exceptional flexibility to design complex and 3D-contoured products
- High-quality, particulate-free welds
- Increased throughput, reduced waste means higher yield and lower operating costs
- Unmatched material compatibility
- Easily integrates into automated and pass-through operations with easy tool changes
- Designed to the highest global standards for laser and machine safety



### The Branson GVX-4HR clean vibration welder for high-speed, automated applications

- Combine infrared and vibration welding to yield clean welds with high mechanical loads, particulate-free joints and hermetic seals
- Clean precise welds can become part of the design aesthetic
- Emitter is contoured to match each material's absorption characteristics for energy efficiency
- Closed-loop sensors ensure accuracy, repeatability and improved weld quality
- Convenient, symmetrical design provides easy access for tool changes and part loading/unloading
- Industrial PC-controlled servo drive with fewer parts and no hydraulic oil offers state-of-the-art speed and accuracy, more energy-efficient operation, plus reduced maintenance and downtime



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