

Automotive Head Light Assembly

Maximize Cost Savings, Boost Sustainability, Efficiency and Quality Control Beyond Traditional Methods



Significant Cost Savings: Drastically reduce your operational expenses with Branson™ Laser solutions. Eliminate high consumable costs and benefit from lower production costs



Environmental Benefits: Support a sustainable future with our technology, reducing your energy consumption, lowering your CO2 emissions, and eliminating toxicity



Enhanced Repairability & Remanufacturing Capability: Our Laser Unwelding Process and STTIr technology enable quick separation of welded parts, helping you reclaim internal components, repurpose returned and unused lighting parts, and minimize waste



Greater Design Freedom: Unlock your design creativity by utilizing a holistic approach, such as complexity reduction and lowering the number of parts



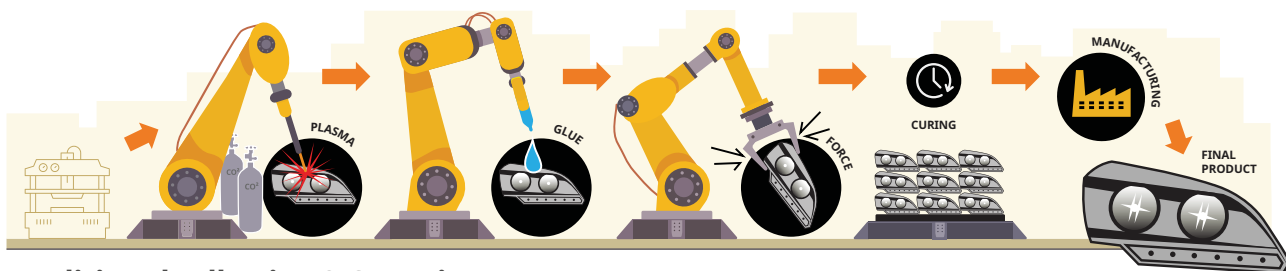
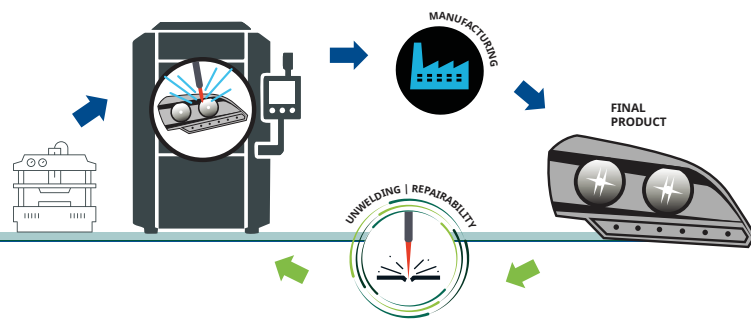
Operational Effectiveness: Boost your overall equipment effectiveness, dramatically increasing throughput while reducing production footprint, complexity, and manpower requirements



Enhanced Quality Control: Gain precise control over your processes, surpassing the limitations of traditional adhesive curing methods



Branson's Laser Welding Process



Traditional Adhesive & Screwing Process

Why Choose Emerson?

Emerson is at the forefront of revolutionizing automotive front lighting design with its groundbreaking approach and advanced Branson laser welding technologies. By integrating this state-of-the-art technology, Emerson enhances the durability, precision, and performance of headlamp assemblies, ensuring they meet the rigorous demands of modern vehicles. This innovative method not only boosts the overall quality and reliability of automotive lighting but also aligns with the industry's growing commitment to sustainability. Through reduced energy consumption and minimized material waste, Branson's advanced laser solutions are setting new benchmarks for eco-friendly manufacturing. This pioneering effort demonstrates how technological advancements can drive both superior automotive performance and significant environmental benefits, marking a new era in the automotive lighting industry.

Contact us today

Americas	ASIA Pacific	Europe

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