

A photograph of an industrial machine, likely a Branson welding or cleaning system. The machine is dark grey and black with blue accents. It features several vertical welding heads with gold-colored tips, arranged in a row. The machine is mounted on a circular base with many small holes. The background is a blurred industrial setting with lights. A blue diagonal overlay is present in the top left corner, containing the main title.

Branson™ Plastic Joining, Metal Welding and Precision Cleaning Solutions

Market-leading solutions, evolving to meet your global assembly needs

Branson™ plastic welding, metal welding, and cleaning technologies from Emerson support manufacturing efficiency and excellence — today and tomorrow.



The Emerson Difference

Technology Plus Expertise

Successful assembly solutions begin far in advance of mass production, when we become a partner in product development. By understanding your product's operating requirements, production volumes and cost constraints, we can help you evaluate and select materials, develop and optimize part and joint designs, automate and integrate Branson joining and cleaning technology, and collect the assembly data needed to meet product traceability and validation requirements.

That is why, from product development through manufacturing automation and scale-up, global manufacturers trust Branson solutions from Emerson to set the standard for performance, quality, expertise and support.



Automotive

From exterior to interior, the latest vehicle designs are being reshaped by new materials, "lightweighted" components, complex contours, and advanced electronics to meet changing consumer needs. Branson technologies assemble and clean the components and subassemblies that are critical to vehicle manufacturing, anywhere in the world.



Medical Devices

Delivering clean, hermetic seals with automated consistency, Branson solutions join components into high-quality medical devices for use in surgical, drug delivery, respiratory therapy, dialysis and in-vitro diagnostic applications. Our technology gives customers the ability to meet a range of regulatory compliance and medical-device traceability requirements.



Electronics and Batteries

From smart sensors and touch screens to batteries for electric vehicles, energy storage systems, and medical devices, manufacturers are engineering the technologies needed to power a greener, more sustainable future. Every day, worldwide, Emerson people and know-how drive new Branson joining and cleaning solutions to meet these challenges.



Packaging

Our ultrasonic sealing technology offers high precision and process control while dramatically reducing energy consumption and carbon footprint compared to heat-seal systems. While it is capable of joining the latest bio-based plastics, it is also fast, powerful and versatile enough to deliver secure, lightweight, tamper-resistant and compostable plastic packaging for millions of products.



Textiles/Nonwovens

Cost-effective production of healthcare garments, personal protective equipment, and air and water filtration products are vital to global health and safety. Branson ultrasonic welders deliver hermetic seals that transform nonwoven fabrics into high-performance filters; industrial and medical respirators; medical-surgical masks, gowns and drapes; as well as personal hygiene and infection-control products used worldwide.

Proven Solutions that provide a sustainable competitive advantage

Delivering proven performance, unequalled expertise and the broadest technology portfolio for plastic and metal welding and precision cleaning solutions

BRANSON™

Welding and joining technologies

- Ultrasonic plastic welding: Rapid, reliable and precise assembly of plastic parts, without need for fasteners or consumables.
- Ultrasonic metal welding: Energy-efficient, solid-state bonding of nonferrous metal films and conductors without added materials.
- Vibration welding: Bonds large, complex parts, including parts with multi-plane or curved surfaces.
- Laser plastic welding: Precise, particulate-free joining and hermetic sealing of 2D and 3D contoured parts.
- Infrared plastic welding: Clean, aesthetic assembly of large and complex part designs with minimal flash. Vibration-free, excellent for delicate parts.
- Heat staking: Mechanically bonds similar and dissimilar materials in a wide range of configurations.

Ultrasonic cleaning technologies

- Aqueous systems: Environmentally friendly process that accommodates varied cleaning chemistries. Used to deflux and remove a variety of organic and inorganic soils.
- Solvent systems: Zero- or low-VOC, solvent-based systems, designed to meet EPA standards, remove surface oils, greases and waxes. No need to mix or manage complex chemistries.

From compact benchtop equipment to large-scale automated systems, Branson plastic welding, metal welding, and precision cleaning solutions help our customers meet difficult assembly, production, and competitive challenges worldwide. Every day, manufacturers leverage our solutions to create consistent, high-quality products, improve process efficiencies, reduce energy and material consumption, and comply with demanding global medical, safety, and environmental regulations.

Ultrasonics Plastic Welding



Laser Plastic Welding



Ultrasonic Metal Welding



Ultrasonic Cleaning



Our Global Commitment to You



Global Service Network

Our large portfolio of Branson assembly technologies is backed by Emerson's unsurpassed global network of sales, service and technical representatives. Our worldwide team is ready to support you and your production requirements with timely advice, spare parts, and maintenance, calibration or other services.

Application Development Labs

Strategically located worldwide, Branson application development laboratories offer materials knowledge, product design and evaluation support, applications engineering and automation services. All of these help customers shape brilliant ideas into workable designs, advanced materials and ready-to-manufacture products.

Complete Aftermarket Services

Emerson aftermarket services enable customers to optimize the performance, productivity and value of every Branson assembly products across its life span. From equipment performance, safety and control inspections to employee training, equipment refurbishment or enterprise asset-management programs, Emerson aftermarket services are available, anywhere and anytime.

For more information, visit : [Emerson.com/Branson](https://emerson.com/branson)

Your local contact: [Emerson.com/contactus](https://emerson.com/contactus)



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