

Meet your complex plastic joining needs with precision, speed and reliability.



Branson™ GVX H/HR Series Vibration & CVT Welders
An energy-efficient technology that optimizes productivity on your assembly lines.



The GVX H/HR Series Welders — the Ultimate in Precision and Repeatability



Emerson brings over 75 years of experience and innovation to the plastics joining industry. Our industry experience and world-class application labs offer design and development assistance second to none. Plus our multiple Branson welding technologies allow us to solve application challenges with a process neutral approach. Emerson continues to innovate and provide solutions with its next generation of Branson vibration welders that deliver unprecedented welding performance.

Sets the standard for weld quality, throughput, efficiency

The GVX H/HR Series welders set a whole new standard of performance for vibration welders, including:

- Improved weld quality and consistency through continual feedback from closed loop sensors that ensure accuracy and repeatability
- Fast cycle time to support high-speed, automated applications
- Smaller footprint yet larger lift table than traditional vibration welders
- Convenient rear-door and symmetrical design provides easy access for tool changes and part loading/unloading
- Branson Logic control System PC-controlled servo drive with fewer parts and now offers state-of-the-art speed and accuracy, more energy-efficient operation, plus reduced maintenance and downtime
- Local, rapid-response technical expertise and repair service supported by Emerson's worldwide network of facilities

Improved Operator Experience

The GVX features an exceptionally user-friendly human machine interface developed using multiple user profiles, an improved sequence editor, intuitive navigation, and enhanced screen display. Plus ergonomically designed lift table height for greater user efficiency and comfort.

- Six pneumatic tool functions
- Better tool access from front and back of machine
- Swing bolts to quickly clamp lower fixture
- Less maintenance



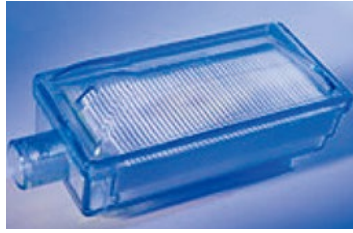
Programming is fast and simple with visual sequencing.

Force and depth profiles show performance with an easy-to-read screen.

GVX accommodates up to 99 different users with configurable access rights, up to 31 tooling codes with 64 welding recipes, and automatic tooling ID.

Typical Applications for the GVX Series Vibration Welder

Medical filter



Hydrogen fuel cell



Washing machine drum



Rear lamps



Upgrade to Clean Vibration Technology

“Clean” is the important new watchword in vibration welding

The GVX H/HR is available with Branson Clean Vibration Technology (CVT), with infrared preheating feature CVT for applications requiring clean welds with minimized particulates, flash, or other visible contaminants.

The combination of infrared and vibration welding offers more options and applications for smart molding joint design. Infrared emitters melt the joining surfaces before the welding process starts, resulting in a variety of benefits:

- Joints with greatly reduced particulates
- Reduced residual stresses and material-specific friction
- Shorter welding time
- Increased joint strength
- Improved ability to handle hard-to-weld materials

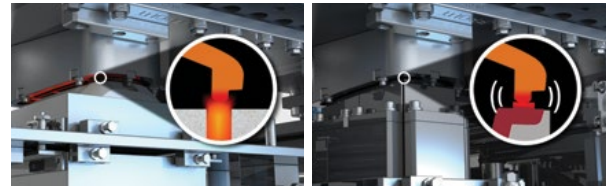


Taillight

Vibration weld seam



How CVT Works



Vibration Welder Specifications

**GVX-2H V001 and
GVX-2HR V001**



**GVX-3H V001 and
GVX-3HR V001**



GVX-4HR V001



Emerson's global footprint ensures consistent, worldwide performance.



BRANSON™

Thanks to Emerson's global network of facilities, customers can set up an application on a GVX machine in one country and have confidence a comparable GVX machine with the same settings in a different part of the world will yield near identical results.

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