

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



With over 75 years of experience, Emerson is a leader in plastics joining. Our world-class application labs and diverse Branson welding technologies provide unmatched design and development assistance. We take a process-neutral approach to solve your application challenges, and with our next-generation Branson vibration welders, we continue to deliver unprecedented welding performance.

Sets the standard for weld quality, throughput, efficiency

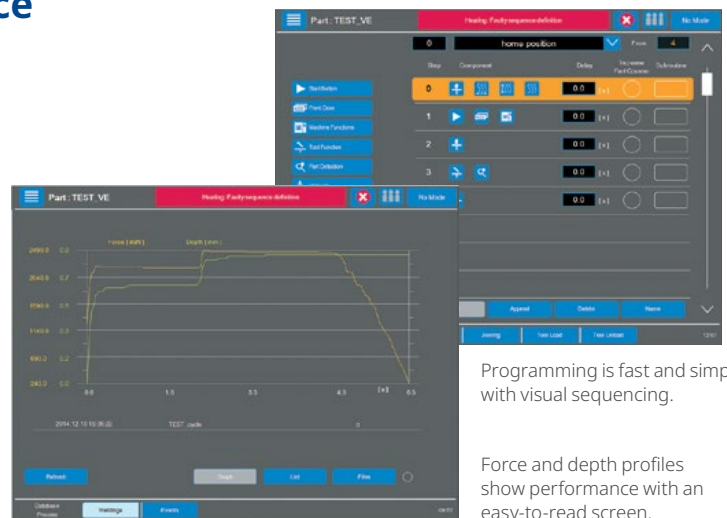
The GVX H/HR Series welders set a whole new standard of performance for vibration welders, including:

- 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 SystemPC-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.
- High-speed Curve Motion: Branson introduces the High-speed Curve Motion on the GVX-HR product line, an advanced method for optimizing position control of the axis during preheating changeover times. This innovative feature is designed to enhance the efficiency of the preheating process. The curve motion feature is specifically engineered to expedite the IR preheating release, ensuring a faster and more efficient transition within the preheating cycle. This cutting-edge technology improves overall productivity and reduces downtime, making it a valuable addition to any production line.

Improved Operator Experience

With an exceptionally user-friendly interface, the GVX makes operation simple. Its intuitive navigation, enhanced screen display, and improved sequence editor were all designed with the user in mind. Additionally, the ergonomically designed lift-table ensures greater comfort and efficiency for operators.

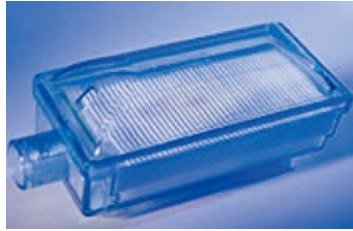
- Six pneumatic tool functions
- Better tool access from front and back of machine
- Swing bolts to quickly clamp lower fixture
- Less maintenance



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
- High-speed Curve Motion is available as an option



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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