



### ***High-speed, high-volume laser welding.***

With a heritage of more than 70 years of proven innovation, Branson holds numerous patents for laser welding, including our patented Simultaneous Through-Transmission Infrared® (STTIr®) laser welding technology. In recent years, it has become the industry standard for high-quality, high-speed, laser welding of plastic parts.

Now, in response to the growing demand for applications calling for increasing geometric complexity, Emerson has incorporated the revolutionary capabilities of STTIr technology into new Branson laser welders — the GLX.

#### GLX-2

Product Platform	Global
<b>Mechanical</b>	
Overall Dimensions*	2806 mm H x 2460 mm W x 1514 mm D (plus chiller)
Dimensions with open doors*	3077 mm H x 3060 mm W x 2156 mm D (plus chiller)
Lift-table dimensions	1043 mm W x 600 mm D
Lift-table stroke	600 mm
Clearance above lift-table	1050 mm
Weight (approx. value depends on options)	4900 kg
<b>Drive System</b>	
Clamp force	1-15 kN, Servo-actuated
Lift table maximum speed	500 mm/s
<b>Laser System</b>	
Available Laser Power	500W, 625W, 750W, 875W, 1000W
Cooling of laser system	Chiller – water with anti-corrosion and anti-algae solution
Dew point management	Water/air heat exchanger on the roof dehumidification air unit
<b>Machine Controls</b>	
Machine Logic /Internal Communications	Internal Branson Logic Control System CANOpen bus architecture
User Interface	Industrial PC /12" capacitive color screen display/1024 x 768 screen resolution
Safety Control	Safety PLC
Lift-table Force Control	Closed Loop
Table Position Control	Full Stroke

(continued on back)

Light Curtain	Based on customer preference, Keyence / Sick / Sunx
Cycle time	Simultaneous motion of key features
<b>Tool interface/Tool change</b>	
Max. upper tool weight	300 kg
Max. lower tool weight**	200 kg
Tool functions	6 Pneumatic Functions, (in total for upper and lower tool)
Tool/ machine communication protocol	CANopen
Alignment/connection of upper and lower tool	Fully Automatic
<b>Pneumatics</b>	
Type	Based on customer preference Festo / Numatics / SMC
<b>Machine Enclosure</b>	
Noise Emission EN ISO 11202	72 dB(A)
Front Doors	Double front doors with laser-safe glass
Maintenance Door	Double doors from rear side, single door from front side
Standard color (outside/inside of machine)	RAL9011, RAL7011 (Outside)
<b>Connection</b>	
Pneumatical/input air pressure	1/2" 6 -10 bar
Electrical	Based on customer requirement: <ul style="list-style-type: none"> <li>• 3 x 400V, 50Hz, PE, N (5 x 16 mm<sup>2</sup>)</li> <li>• 3 x 480V, 60Hz, PE, without N (4 x 16 mm<sup>2</sup>)</li> <li>• 3 x 200V, 50/60 Hz, PE, without N (4 x 35 mm<sup>2</sup>)</li> </ul> <ul style="list-style-type: none"> <li>• 3 x 380V, 50 Hz, PE, N (5 x 16 mm<sup>2</sup>)</li> <li>• 3 x 380V, 60 Hz, PE, without N (4 x 16 mm<sup>2</sup>)</li> </ul>
Data Interfaces	USB - quantity 4
<b>Ambient Conditions</b>	
Temperature ***	Min. +15°C, Max. +35°
Humidity (no condensation)	Max. 80%

\* Dimensions can be a little bit different due to switches, pneumatic input unit, rubber elements and tolerances. \*\* Higher weights possible at slightly lower clamp force.

\*\*\* If ambient temperature is higher there is recommendation to order air conditioning unit for electro cabinet.

The contents of this publication are presented for information purposes only. We reserve the right to modify or improve the designs or specifications of our products at any time without notice.

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