

# Branson™ GIX Infrared Welder



## *Speed and Energy efficient solution for plastic joining*

Branson's Infrared GIX platform provides a solution that delivers maximized aesthetics, integrity, and functionality. Among its many benefits Infrared produces clean, clear, weld-bead aesthetics along with enhanced design flexibility. It's energy efficient and cost effective, producing faster welds which result in shortened cycle times.

### GIX-1.5 Series

Product Platform	Global	
<b>Mechanical</b>		
Overall dimensions*	2502 mm H x 1642 mm W x 2418 mm D	
Dimensions with open doors*	2502 mm H x 1910 mm W x 4485 mm D	
Weight (approx. value depend of options)	approx. 2600 Kg	
<b>Tool Data</b>	<b>2D</b>	<b>3D</b>
Upper fixture:		
• Table area	• 800 mm W x 500 mm D, max. Level above floor 1793 mm	• 800 mm W x 500 mm D, max. Level above floor 1925 mm
• Usable area	• 690 mm W x 500 mm D	• 690 mm W x 500 mm D
Lower fixture:		
• Table area	• 800 mm W x 500 mm D, min. Level above floor 745 mm	• 800 mm W x 500 mm D, min. Level above floor 745 mm
• Usable area	• 690 mm W x 500 mm D	• 690 mm W x 500 mm D
R-Tool support:		
• Table area	• 800 mm W x 500 mm D, mid. Level above floor 1325 mm	• 800 mm W x 500 mm D, mid. Level above floor 1325 mm
• Mechanical usable area	• 690 mm W x 500 mm D	• 690 mm W x 500 mm D
• Heating area	• 650 mm W x 500 mm D	• 650 mm W x 500 mm
Max. Clearance between upper and lower table	1048 mm	1180 mm
Min. Clearance between upper and lower table	548 mm	180 mm
Max tool weight lower tool / upper Tool / IR-Mirror	120 / 120 / 100	120 / 120 / 100
<b>Axis Drive System</b>	<b>2D</b>	<b>3D</b>
Axis lower tool	500 mm/s / 500 mm (Speed / Stroke)	500 mm/s / 500 mm (Speed / Stroke)
Axis upper tool	Fixed upper console	500 mm/s / 500 mm (Speed / Stroke)
Axis IR	1000 mm/s / 600 mm (Speed / Stroke)	1000 mm/s / 600 mm (Speed / Stroke)
Maximum Weld Force Control	10kN Closed Loop (Lower tool Axis)	10kN Closed Loop (Lower tool Axis)
Minimum Weld force control	1kN Closed Loop (Lower tool Axis)	1kN Closed Loop (Lower tool Axis)

(continued on back)

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<b>Machine Controls</b>	
OP Type	Internal Branson logic control system / 12" touch screen display
<b>Weld and Tool Controls</b>	
IR	Heating time and power levels
Joining	Weldtime, weld depth absolute
Stepsequence	Adjustable for all functions
<b>Pneumatics</b>	
Input air pressure	6 - 10 bar
Functions	Pneumatic function on tool side
<b>IR Power</b>	
Type	Branson IR-Power
Controls	Closed loop
Electrical	400VAC/2x25VAC, safety extra-low voltage
Quantity of heat circuits	1 to 16 dependant on the tool
<b>Enclosure</b>	
Noise emission (DIN 45635)	< 70 dBA
Frontdoors*	Makrolon clear; 1000 mm H x 920 mm W; lower level above floor 860 mm
Maintenance door	Front panel; 2340 mm H x 1500 mm W
Color	RAL9011, RAL7011 (Outside) RAL7011 (Inside)
<b>Connections</b>	
Pneumatic	1/4"
Electrical	3 x 400 V, N, PE, 50Hz
Power consumption	dependant on machine/tool specification                      kVA
Max. current (main fuse)	dependant on machine/tool specification                      A
Electrical connection	dependant on machine/tool specification
Data Interfaces	USB Port, LAN
<b>Ambient Conditions</b>	
Temperature	min +15 °C - max. +40 °C
Humidity (no condensation)	30% - 95%
Altitude (above sea level)	max. 1000 m

\* Dimensions can be a little bit different due to switches, pneumatic input unit, rubber elements and tolerances.

**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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