

Branson™ GPX PulseStaker

Welding solution for complex and delicate parts

The PulseStaker is a heat staking technology which provides instantaneous heating and cooling. PulseStaker provides high levels of safety, consistent product quality and delivers significant energy savings. PulseStaker technology can be implemented in varying levels of sophistication according to customer requirements.



GPX 100 Series

Product Platform	Global
Mechanical	
Overall dimensions*	1420 mm W x 2300 mm H x 1150 mm D
Dimensions with open doors*	1420 mm W x 2300 mm H x 2100 mm D
Maximum tool size	740x645 mm
Central drive stroke	550 mm
Weight (approx. Value depends on options)	1000 kg*
Maximum number of transformers	12
Maximum number of tips	24
Drive system	
Central drive speed	550 mm/s
Welding system	
Maximum number of welding tips	24 pcs.
Max. welding force of tip	120 N
Machine Controls	
Machine Logic/Internal Communications	Internal Branson logic control system Profinet bus architecture
User interface	HMI /12" capacitive color screen display/1024 x 768 screen resolution
Control	PLC S7 1500
Central drive position control	Full stroke

(continued on back)

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Tool interface/Tool change	
Max. upper tool weight	150 kg
Max. lower tool weight**	300 kg
Tool functions	6 pneumatic functions upper tool, 2 pneumatic functions lower tool
Tool/ Machine communication protocol	Profinet
Alignment/Connection of upper and lower tool	Based on customer preference manual/automatic
Machine Enclosure	
Noise Emission EN ISO 11202	80 dB(A)
Front doors	Single front door
Maintenance door	Double doors from rear side, single door from left side
Standard color	RAL7035 (outside/inside)
Connection	
Required air purity (Particulate/Water/Oil)	Class 7:4:4 according to ISO 8573-1:2001
Pneumactical/input air pressure	1/2" 6 bar
Electrical	Based on customer requirement: <ul style="list-style-type: none"> • 3 x 400V, 50Hz, PE, N (5 x 16 mm²) • 3 x 480V, 60Hz, PE, without N (4 x 16 mm²) • 3 x 380V, 50 Hz, PE, N (5 x 16 mm²)
Data Interfaces	USB - quantity 4
Ambient Conditions	
Temperature***	Min. +15°C, Max. +35°
Humidity (no condensation)	Max. 80%

* Dimensions can vary due to switches, pneumatic input unit, rubber elements, tolerances, and other options.

** Slightly higher weights possible.

*** For higher ambient temperatures, an air conditioning option for the electrical cabinet is recommended.

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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