



The GFAA301000 has been designed and built to answer to every specific request of automation on connecting process and on tracking and data management.

The GFAA301000 shows its dynamism by the special connection head able to adapt to any single need, its dimensions can be changed according to available space and stator handling, and the movement happens with a variable number of independent axes (4 to 7) managed by brushless motors and intelligent drivers. This allows to reach the connection point without the presence of an operator, except for a prearrangement station placed close to the machine.

Connecting process management takes place through the interface between an owned control board, a PLC to manage the cycle and a touch screen panel to set and display the connection parameters.

A special developed software allows the GFAA301000 to control, check and compare the connection parameters and the values during the process.

The main managed values are: temperature, pressure, final thickness, current.

Data are displayed on panel and sent via different interfaces (profibus, profinet, ethernet, wi-fi, etc.) for storage on back-up unit, server or other.

Thermo connection process used by GFAA301000: once the connector or cable lug is positioned between the crimping tools, a special sensor detects its correct position allowing the connection process to start.

Connection process consists of two operations that happen in sequence: at first current passing through the crimping tools to warm the support and then, besides current, pressure is applied to the crimping tools to vaporize the wires' enamel and compact everything in a single body with high electrical and mechanical features.

The GFAA301000 is able to manage up to 99 programs with different power values, active and passive time, ramp time and number of repetitions, three different heating modes and sequence of programs.

OPTIONALS: Welding Fume Extraction with or without Active Carbon Filter; Lifting System Platform; Toolings with different Diameters; Back-Up Key; Bar-Code Reader; Software for remote desktop Machine↔PC; License for data storage (CSV file); Software and license for remote assistance; Led Light; Cold Air Generator.

Technical Features

Voltage	: 400 V (±5%) 50-60Hz	Max. Power (duty factor)	: 55KVA(100%) 77,78KVA(50%)
Heating Temperature	: ~400°C	Heating Time	: Depends on kind of connection
Arms Closing System	: Oil	Arms closing force	: ~1000 Kg (Cylinder Ø 25)
Programs Set	: 249	Cycle Set	: 249
Range of Connections	: *Total section up to 240mm ²	Ø Tooling Range	: 6 ÷ 28mm
Temp. Range Working	: +10°C ÷ +40°C	Humidity Range Working	: 0% ÷ 85% without condensation
Dimensions	: (WxDxH) mm 950x1100x1800		
Weight	: 560Kg		
Arms extensions	: 0 ÷ 900mm Horizontal		
	: 0 ÷ 700mm Vertical		

*Referred to the nominal section of the standard connectors model L-48P for unipolar cable 240mm²

IMPORTANT NOTE: Images are for product illustration purposes only. The manufacturer has the right to make changes (or technical improvements) without prior notice obligation.

