



The machine GFA301000 has been developed to connect enamelled wires and cables normally used in the electromechanical industry following the logical of a semiautomatic process combined to easiness of use, flexibility and high productivity so to get the best consistent and repetitive result.

The equipment was designed and built to answer to every specific request coming from "Automotive" field as Tracking and Data Management.

The most important part of the GFA301000 is the connecting head that allows to adapt to any single production need, its dimensions can be adjusted in order to space and stator handling, so it will be very simple to integrate the machine both on existing or new lines. Heart of GFA301000 is the control board "CST12-AA-00", with its simplicity and ease of use, allows different customizations.

Ease of use is given by the integration of the touch screen operation panel with special functions able to control, check and compare the data between connection parameter and values during the process. The main managed values are: Temperature, Pressure, Final Thickness, Current.

The GFA301000 functions are controlled by display panel or by a special software that allows to program the machine from PC. The GFA301000 can manage up to 99 different programs with different values, that can be linked in a single cycle able to repeat them in sequential and constant way. By a special interface the GFA301000 can transmit all data concerning every single connection to a data storage unit or back-up unit, server. The GFA301000 uses, as a connection support, a connector or cable terminal.

Once the wires and cable are introduced into the connector, altogether is positioned between the toolings, a sensor detects the correct position enabling the heating head to come down blocking it.

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.

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 185mm ²	Ø Tooling Range	: 6 ÷ 24mm
Temp. Range Working	: +10°C ÷ +40°C	Humidity Range Working	: 0% ÷ 85% without condensation
Dimensions	: (WxDxH) mm 700x880x1520		
Weight	: 220Kg		

*Referered to the nominal section of the standard connectors model L-37P for unipolar cable 185mm²

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

