



The ESS6 Thermo Crimping Machine has been developed to connect enamelled wires and cables normally used in the electro-mechanical industry for the construction of electric motors, transformers, coils, etc.

The machine combines a high speed cycle with reliability and repetitiveness of the connecting process.

The process is based on the use of a clip, produced by the machine itself, as a connection support.

Such clip is obtained from a copper strip covered with tin, available in different sections: 0,5x4mm, 0,5x5mm, 0,8x6mm.

The thermo connection process ends with the clip crushing with application of pressure and heating, allowing to remove the enamel from the wires and compacts them with a cable into a single body with high mechanical and electrical features.

At the end of the thermo connection process the excess part of wires and cables is cut by a special blade.

All the Thermo Crimping Machine ESS6 functions are electronically controlled by Castech's board "CST12-AA-00".

The electronic board manages all parameters concerning the connection and the machine's movements, the interface is simple and intuitive thanks to the touch screen operation panel.

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

The mechanical part is made of easily replaceable independent and adjustable groups so to allow a quick service.

Particular evidence has been given to the tooling groups with different diameters, that have been designed to allow their easy and fast replacement (about 5 minutes).

The strip forward group allows now to use all types of plate with a simple manual adjustment.

OPTIONALS: Welding Fume Extraction with or without Active Carbon Filter; Lifting System Platform; Interchangeable tool bracket group (Ø 3,5, 4,0, 5,0, 6,0, 7,0, 8,0, 9,0, 10,0 mm); Servo Electro-valve for heating Pressure Control; Adjustable Table; End strip sensor; Backup Key; Bar-Code Reader; Led Light; Software for remote desktop Ess6↔PC; License for data storage (CSV file); Software and license for remote assistance.

Technical features

Voltage	: 400 V (±5%) 50-60Hz
Working Pressure	: 6 bar/0,6MP
Air Capacity Request	: 950 L/min
Heating Temperature	: ~400°C
Programs Set	: 249
Cycles/min	: 20
Copper strip dimensions	: 0,5x4; 0,5x5; 0,8x6 mm
Connections Range	: Total section up to 12 mm ²
Working Temperature Range:	+10°C ÷ +40°C
Humidity Range Working	: 0% ÷ 85% without condensation
Dimensions	: (WxDxH) mm 780x850x1280
Weight	: 290Kg

Max. Power (duty factor):	2,3KVA (100%) 5,5KVA (50%)
Air Consumption	: 70L/min
Arms Closing Force	: Air/Oil System max 470 Kg
Heating Time	: Depends on kind of connection
Cycle Set	: 249
Crimp Time Forming	: 3" (average time)
Ø Crimp Range	: 3.5mm / 10mm
Maximum Audio Level	: LwA 79 DBA

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

