DATASHEET

# STCS - **CS19**

Ref: **14-01-0007**

mecalbi
ENHANCE INNOVATING

## Shrinking Tube Control System

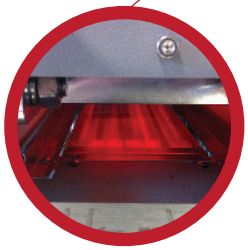
The STCS-CS19 is a machine for processing heat shrink tubes, based on infrared resistors. It's designed for workbench applications and can process several parts at the same time.

It has several operating modes, including the use of references which can be selected by barcode readers.

Once the reference is selected, the machine automatically adjusts all parameters to the pre-programmed values, including shrinking time (conveyor's speed).

Use of references, that can be selected manually or using barcode readers, to automatically adjust the parameters and allow seamless transitions between batches of assemblies

Automatic conveyor's speed adjustment based on the programmed shrinking time



New quartz infrared resistors with glass protection, for increase durability

Optional cooling system, based on compressed air amplifiers, to cool down the splices after processing and prevent the cables from sticking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**Mod:** 03.02.023-E | **Ref:** 14310-80-002-R08

# DATASHEET STCS - **CS19**

## TECHNICAL CHARACTERISTICS

| | |
|---|---|
| **WORKING TEMPERATURE** | |
| Minimum | 300 [ºC] |
| Maximum | 600 [ºC] |
| **DIMENSIONS** | |
| Length | 1540 [mm] |
| Width | 284 [mm] |
| Height | 545 [mm] |
| Weight | 100 [kg] |
| **POWER SUPPLY/CONSUMPTION** | |
| Supply | 230 [V] @ 50Hz |
| Standby Consumption | 500 mA |
| Working Consumption | 1 A to 16 A (Max. 3600W) |
| **CONNECTIONS** | |
| Barcode Reader | DB9 Male |
| Temperature Sensor | Type K Thermocouple |
| Power Line | 1 IEC Socket |
| Programming | Membrane Keyboard |
| Interface | LCD 16x2, Buzzer and LED |
| **SHRINKING CHAMBER** | |
| Resistors Dim. (heat area) | 95 x 285 [mm] |
| Resistors Power | 1650 W |
| Distance Between Belts | 140 [mm] |
| Shrinking Tube Diameter [Max] | 30 [mm] |

## OPERATION

The system has a conveyor with two sets of timing belts that grips the wires with the sleeves and takes them inside an infrared oven for the shrinking process. The assemblies are then carried through a cooling zone and deposited in a collection bin.

This feature makes it ideal for large production requirements, since the output is determined by the pace of the operator.

The machine can also be used with end-splices or ring terminal assemblies with the help of custom tools.

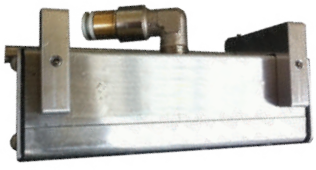
The machine can be supplied with an optional cooling system, located at the end of the conveyor that cools down the assemblies and prevents them from sticking to each other.

The M2 mode allows the programming of the cycles to be made, making it ideal to produce batches of splices.

## FEATURES

- Adjustable parameters: process temperature, shrinking time, cooling temperature; etc;
- Two different operating modes: M1 with temperature control and shrinking time; and M2 mode with pre-programmed references (100 in total);
- The pre-programming of references can be done manually or using a PC with STCS-RCT software (reads Excel™ files);
- The selection of references can be done automatically using a barcode reader or manually using either the rotating knob or the keyboard;
- Use of labels and information about additional glue for each shrinking time inside a reference;
- Automatic conveyor speed adjustment, in function of the programmed shrinking time;
- Manual and automatic calibration;
- Programming mode password protected;
- Special maintenance mode for hardware debug;
- Equipped with the external temperature probe connection for external reading and offset adjustment;
- Automatic cool-down cycle to extend the lifecycle of components;
- Partial and global cycle counter;
- Working time counter;
- Interchangeable system language including: English, Portuguese, French and Spanish (others on demand);
- Can be supplied with a special kit for ring terminals and/or end-splices.

## OPTIONS



**Cooling System**
Ref: 06-01-0107

**Ring Terminal Tool**
Ref: 06-01-0106

**End-Splice Tool**
Ref: 06-01-0125