

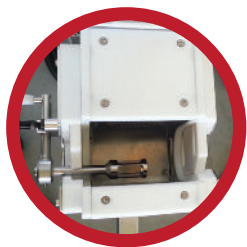
Ref: 14-01-0005

Shrinking Tube Control System

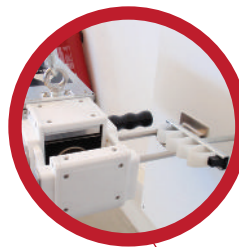
The STCS-PHD is a machine for processing heat shrink tubes, based on hot air devices. It's designed for line panel applications and can process one part at a time.

The system is constituted by a control module for parameter definition and a hot air device for the shrinking operation.

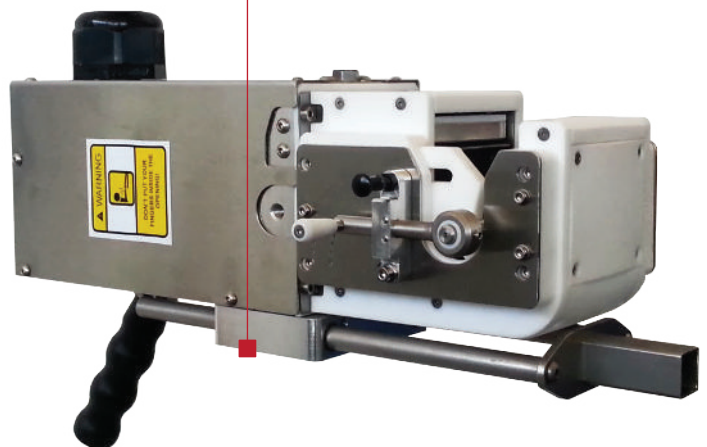
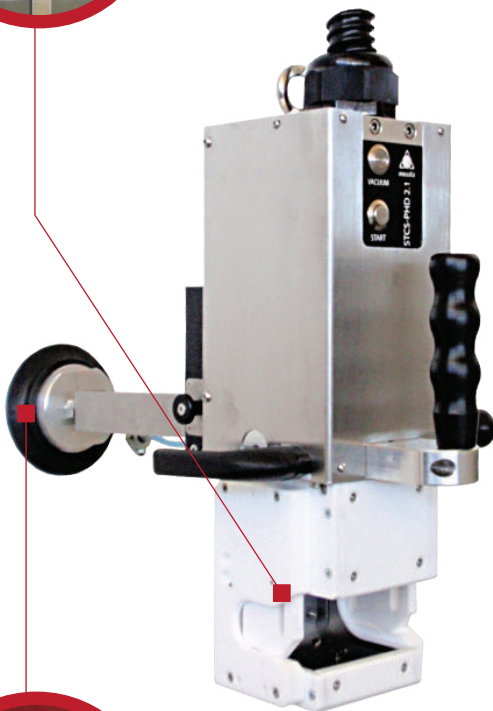
It has several working configurations to easily accommodate all panel applications.



Can be supplied with custom shrinking chambers, designed to specific applications



It can work vertically, horizontally, in parallel or perpendicular towards the line panel. This change can occur during work since it has a rotation holder



Panel fixation using a suction vacuum pump or a blade system



Use of references/sequences, that can be selected manually or using barcode readers



Mecalbi
Engineering Solutions, Lda

Headquarters: Rua Dr. Alfredo da Silva, Lt 92 R/C,
6000-210, Castelo Branco, Portugal

Mecalbi Operations Center:
Zona Industrial de Castelo Branco,
Rua J, Lt N14, Módulo A,
6000-459, Castelo Branco, Portugal

Tel. / Fax. +351 272 325 264
Email. comercial@mecalbi.com
Youtube Channel. www.youtube.com/mecalbi
Mod: 03.02.023-E | **Ref:** 18509-80-002-R06

Copyright © 2015 Mecalbi. All rights reserved. All Mecalbi's brands and product names are service marks, trademarks or registered trademarks of Mecalbi Engineering Solutions, Lda. All other marks are the property of their respective owners. Mecalbi reserve the right to make corrections, modifications, enhancements, improvements and other changes without prior notice.

TECHNICAL CHARACTERISTICS

PROCESS TEMPERATURE

Minimum	150 [°C]
Maximum	350 [°C] (Due to material limitations, it's recommended to work below 280 °C)

SHRINKING SYSTEM DIMENSIONS

Length	440 [mm]
Width	240 [mm]
Height	190 [mm]
Weight	6 [kg]

POWER SUPPLY/CONSUMPTION

Supply	230 [V] @ 50Hz
Standby Consumption	50 mA
Working Consumption	50 mA to 15 A (Max. 3400W)

CONTROL MODULE DIMENSIONS

Length	273 [mm]
Width	200 [mm]
Height	140 [mm]
Weight	3 [kg]

CONNECTIONS

Compressed Air	Quick Hold Socket, Ø 10mm; Min: 5 Bar; Max: 6 Bar
Electrical Grid	1 IEC Standard Male Socket
Barcode Reader/Communication socket	DB9 Male
Programming	Membrane Keyboard, Barcode Reader
Interface	LCD 16x2, Buzzer and LED

SHRINKING CHAMBERS AND CLAWS

Standard Shrinking Chamber	L = 80 mm; Ø 30 mm
Large Shrinking Chamber	L = 80 mm; Ø 50 mm

OPERATION

The STCS-PHD has a control module where the shrinking parameters and operation mode are defined. It has an built-in K type thermocouple used in a closed loop system to control the parameters.

The operator holds the equipment to the line panel in the desired configuration and places the assembly inside the shrinking chamber, holding it with the clamps.

By pressing the start button the shrinking operation starts using the defined parameters. The hot air tool door closes preventing the assembly from being removed before the operation is finished. After the shrinking procedure, the cooling system is activated using a pre-defined time.

When it finishes, the machine stops and the hot air tool door opens, enabling the operator to remove the end product.

- ▲ Adjustable parameters: process temperature, shrinking time, waiting time, etc;
- ▲ Several working configurations to accommodate all panel's applications;
- ▲ Two different operating modes: M1 with temperature control and shrinking time; and M2 mode with pre-programmed references (each reference can have from 1 to 20 shrinking times);
- ▲ Inbuilt cooling system;
- ▲ 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 for each shrinking time inside a reference;
- ▲ Manual and automatic calibration (single cycle);
- ▲ Programming mode password protected;
- ▲ Special maintenance mode for hardware debug;
- ▲ Cycle counter;
- ▲ Air fault detection;
- ▲ Interchangeable system language, including: English, French, Portuguese (others on demand).

OPTIONS

Vacuum support system

Ref: 06-01-0063



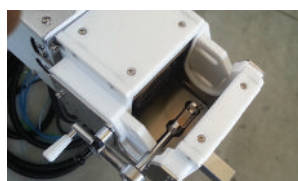
Blade support system

Ref: 06-01-0064



Custom shrinking chamber

Ref: 06-01-0055



End-splices Tool

Ref: 06-01-0057

