

Ref: 14-01-0021

## Shrinking Tube Control System

The STCS - LC (Longitudinal Conveyor) is a heat shrink system, based on infrared resistors, that is able to process several and different types of parts at the same time.

Designed for workbench applications, it has two operating modes including the usage of references which can also be selected using barcode readers.



Virtually no limits concerning the size of the harness and splices to be processed



Possibility to use customized jigs for special applications



Side panel with USB port for reference uploading and barcode reader connection



New and improved interface based on Touchscreen technology



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**Mod:** 03.02.023-E | **Ref:** 08513-80-002-R01

## TECHNICAL CHARACTERISTICS

### WORKING TEMPERATURE

|         |          |
|---------|----------|
| Minimum | 250 [°C] |
| Maximum | 400 [°C] |

### DIMENSIONS

|        |           |
|--------|-----------|
| Length | 1200 [mm] |
| Width  | 715 [mm]  |
| Height | 508 [mm]  |
| Weight | 80 [kg]   |

### POWER SUPPLY/CONSUMPTION

|                     |                          |
|---------------------|--------------------------|
| Supply              | 230 [V] @ 50Hz           |
| Standby Consumption | 500 mA                   |
| Working Consumption | 1 A to 16 A (Max. 3600W) |

### PNEUMATIC

|                 |                                 |
|-----------------|---------------------------------|
| Supply          | Quick Hold Socket ø8 [mm]       |
| Supply Pressure | Min: 2bar; Max: 6bar; Rec: 3bar |

### CONNECTIONS

|                    |                             |
|--------------------|-----------------------------|
| Barcode Reader     | USB                         |
| Temperature Sensor | Type K Thermocouple         |
| Power Line         | 1 IEC Socket                |
| Programming        | Touchscreen                 |
| Interface          | Touchscreen, Buzzer and LED |

### SHRINKING CHAMBER

|                               |          |
|-------------------------------|----------|
| Shrinking Tube Diameter [Max] | 100 [mm] |
|-------------------------------|----------|

## OPERATION

The STCS - LC is made by a longitudinal conveyor, where the assemblies are placed and then taken through an infrared oven for the shrinking process. At the end of the conveyor a cooling system cools down the assemblies.

There are virtually no limitations on the size of the harness or tubing that can be processed by the machine, because the assemblies are carried on top of steel wire belt.

They can be putted onto the conveyor by bundles, batches or even using customized jigs to better ensure the position of the sleeve.

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

Different from any other, the LC grants flexibility by shrinking virtually almost everything. From normal splices to special applications, one single machine can do it all.

- ▲ Adjustable parameters: process temperature, shrinking time, cooling, 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, using a PC with STCS-RCT software (reads Excel™ files) or using a USB stick;
- ▲ The selection of references can be done automatically using a barcode reader or manually on the Touchscreen;
- ▲ 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;
- ▲ Built-in cooling system, based on compressed air amplifiers;
- ▲ Adjustable oven opening (from 20mm to 100mm);
- ▲ Manual and automatic calibration;
- ▲ Programming mode password protected;
- ▲ Special maintenance mode for hardware debug;
- ▲ Equipped with the external temperature probe connection for temperature 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).

## OPTIONS

- ▲ **Additional Extra-Cooling System**  
(Ref: 06-01-0189)



- ▲ **Customized Positional Jig**  
(Ref: 06-01-0190)