

# ▶ STCS - L Datasheet

Revolutionize your shrinking tube process.

Radically increase your productivity. Save time and make routine tasks easier.



## DESCRIPTION



The “Shrinking Tube Control System - L” (STCS-L), showed in figure 1, consists in a shrinking system for wiring harness thermoplastic protections, with control and monitoring, based on hot air devices, for use in a production lines.

The system allows 3 operating modes, providing an enormous flexibility when compared to traditional shrinking tube systems.

The system can be vertically supported using a suspender. The holding of the system to the line panel is done through a suction vacuum pump, activated by a button. These two features allows the holding of the STCS-L virtually in any part of the production line, allowing also a combined movement between them.

The cable holding is done through lateral claws, that can be adjusted in an horizontal and vertically manner. The use of claws frees the user for other tasks while the shrinking process is going on.

Both the claws and the shrinking chamber can be customized accordingly to the application intended.

The STCS-L uses has hot air device equipments of the Leister brand. However, any other hot air device can be used.

All the potential warmed areas are protected with isolation materials such as PTFE (Teflon).

The user can configure several system parameters, such as: the working temperature, the maximum allowed temperature, the shrinking time, the waiting time and the thermostat type.

Besides these configurations, the STCS-L allows the programming and execution of references, i.e. the programming and sequential execution of shrinking operations with pre-determined shrinking and waiting times. This feature, combined with the possibility of selecting the reference program using bar-code readers, has a direct impact in productivity, since the time spent in the adjustment and configuration of the device is suppressed.

The programming and usage of the STCS-L is highly user friendly, since the entire configuration is done recurring only to 5 buttons (figure 2). Also, both the programming and usage of the device are assisted with visual and sound effects.



The STCS-L also allows the reference's programming through a dedicated software tool (figure 3), supplied separately, which allows to program several machines in a very fast and easy way.

Fig.1 - STCS - L

## BENEFITS



- Increasing productivity/ready to use. In extreme, the system only needs to be programmed once;
- High versatility. The possibility of vertical suspension combined with the usage of adjustable and customized claws, allows the usage of the system in practically all kind of applications;
- Guarantee of optimal shrinking time and quality, through the combination of the several STCS-L capabilities;
- Energy savings and process control guarantee. Due to the high autonomy of STCS-L, the users can easily conciliate other tasks with the shrinking operations.

## FEATURES



- Easy to use, easy to program;
- Very versatile. Vertical and horizontal suspension. Vertical and horizontal adjustable claws;
- 3 different operating modes: continuous, intermittent and pre-heating;
- Configurable languages, including: English, Portuguese, French and Spanish;
- Possibility to define up to 1000 reference programs, each one with 20 shrinking plus 20 waiting times;
- Bar-code and manual program selection.



Fig.2 - STCS - L  
Front Panel

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## TECHNICAL CHARACTERISTICS

### STCS - L

#### WORKING TEMPERATURE

Minimum	20 °C
Maximum	500 °C (Due to material limitations, it's recommended to work below 300 °C)

#### DIMENSIONS

Length	250 [mm]
Width	150 [mm]
Height	390 [mm]
Weight	4,5 [kg]

#### POWER SUPPLY/CONSUMPTION

Supply	230 V AC –50/60 Hz
Standby Consumption	35 mA
Working Consumption	250 mA to 15 A

#### LIFE SPAN

Temperature > 300 °C	< 5000 h
Temperature < 260 °C	5000 - 20000 h

#### SUSPENSION

Vertical	Variable Strength Suspender (Not included).
Horizontal	Vacuum.

#### CONNECTIONS

Compressed Air (Vacuum)	Quick Hold Socket
Code-bar Reader	DB9 Male
Temperature Sensor	Type K Thermocouple
Power Line and Hot Air Device	2 IEC Sockets
Programming	Membrane Keyboard
Interface	LCD 16x2, Buzzer and LED

#### SHRINKING CHAMBER AND CLAWS

Shrinking Chamber (wiring supported)	15 x 50 [mm] or to be defined
Claw Opening	15 [mm] or to be defined



Fig. 3 -  
Application STCS-RCT

