Mod.0116.US-A Ref.CTL.00.US-R06

MECALBI
PORTUGAL

MECALBI - Engineering Solutions, Lda
Zona Industrial de Castelo Branco
Rua G, Lote P3 C
6000-459 Castelo Branco - Portugal
T. +351 272 325 264
E. comercial@mecalbi.com

MECALBI
MEXICO

MECALBI Engineering Solutions México
S. de R.L. de C.V.
Avenida Reforma
#3131 - 5C, Colonia Melchor Ocampo,
CP. 32380 Cd. Juarez - Chihuahua - México
T. +52 656 611 6477
E. sales.mexico@mecalbi.mx

MECALBI
USA

MECALBI USA, LLC
9100 Mayflower Ave, Suite H
El Paso, TX 79925, USA
T. +1 915 401 2471
E. sales.usa@mecalbi.us

MECALBI TV
www.youtube.com/mecalbi

www.mecalbi.com

HEAT SHRINK SYSTEMS

www.mecalbi.com

MECALBI

MECALBI
Engineering Solutions, Lda

Mecalbi is a Portuguese company specialized on development and production of heat shrink systems, being nowadays an important part in the daily work of all major cable harness manufacturers. Laboring since 2006, it has recorded a continuous and solid growth in its segment being today a world reference in heat shrink systems.
Mecalbi is a worldwide company working for the global market. It's represented in four continents by local partners who provide sales and technical support.

Why MECALBI?

- **TIME SAVING**
  During the shrinking process, the operator is free to perform other tasks.
- **PROCESS CONTROL**
  Reliability and consistency of the process by monitoring and controlling the system's temperature, process time and position of heat shrink tube.
- **SAFER**
  The operator is protected against injuries.

MYX
The Shuttle.

ISAC19
The Feeder
for tube centering for CS19TS

CST
The Conveyor
for terminal applications.

RCMM
The Automatic Centering
heat shrink system.

PRODUCT RANGE

HEAT SHRINK SYSTEMS

Infrared Technology

Hot Air Technology

Test Systems

INFRARED TECHNOLOGY

HEAT SHRINK SYSTEMS

DATASHEET

STCS evo500

The STCS-evo500 is a machine for processing heat shrink tubes, based on infrared resistors.

It's designed for workbench applications and can process one part at a time.

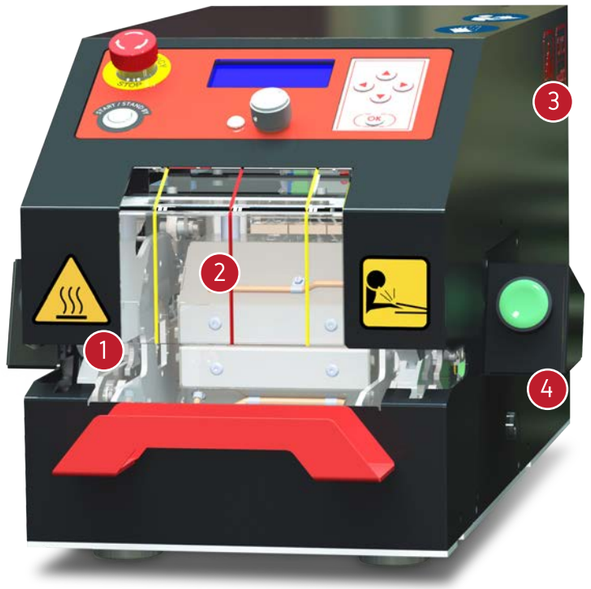
It has built-in communication with ultrasonic welding machines and several operating modes.

It can be supplied with end splice tool with cooling that doesn't have to be removed when working with normal splices.

Reference of the product
14-01-0016

Technology
Infrared

> Media for this machine



Holding system that preserves the integrity of the cable, ensuring it does not move during the entire process

Quartz infrared oven that allows higher temperatures

External connection for communication with ultrasonic welding machines

Built-in air treatment unit that provides steady regulation and increases lifetime of pneumatic components

Technical Data

WORKING TEMPERATURE	
Min - Max [°C] / [°F]	300-550 / 572-1022
SHRINKING TIME	
Min - Max [s]	1-99
MEASUREMENTS	
Width; Length; Height [mm] / [in]	293; 560; 257 / 11.5; 22; 10.1
Weight [kg] / [lbs]	21 / 46
POWER SUPPLY/CONSUMPTION	
Supply	230 [V] @ 50Hz
Consumption	250 [mA] to 3 [A] (Max.700W)
PNEUMATIC	
Supply	Quick Hold Socket Ø8 [mm]
Supply Pressure	Min: 4bar; Max: 7bar; Rec: 6bar

CONNECTIONS	
Barcode Reader	RS232
Temperature Sensor	Type K Thermocouple
Power Line	1 IEC C14 Socket
Programming	Membrane Keyboard, Barcode Reader, External Device
Interface	LCD 16x2, Buzzer and LED
SHRINKING CHAMBER	
Shrinking Chamber [mm] / [in]	77; Ø32 / 3; Ø1.3
Min-Max Tube Ø [mm] / [in]	0-20 / 0-0.8
Min-Max Tube Length [mm] / [in]	0-75 / 0-3
Min-Max Cable Ø [mm] / [in]	0-10 / 0-0.4
Min-Max Cable Length [mm] / [in]	220-∞ / 8.7-∞
CALIBRATION	
Calibration Probe	ref.: 06-01-0158

Features

- Adjustable parameters: process temperature, shrinking time, etc.;
- Two different operating modes: M1 with temperature and shrinking time control; and M2 with pre-programmed references (100 in total, each having from 1 to 40 shrinking times);
- The pre-programming of references can be done manually or using a PC with STCS-RCT software;
- 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;
- Programming mode password protected;
- Special maintenance mode for hardware debug;
- Cycle and time counter;
- Communication with ultrasonic welding machines;
- Air fault detection;
- Larger fan that reduces the machine's body temperature;
- Interchangeable system language, including: English, Portuguese, French and Spanish (others on demand).

Options

- End splice tool
  Ref: 26-23-0010
- CAN tool (end splice)
  Ref: 26-23-0013
- CAN tool (normal splice)
  Ref: 26-23-0014
- Ring terminal tool
  Ref: 26-23-0021
- Cooling system
  Ref: 06-01-0132

DATASHEET

STCS evo500TS

The STCS-evo500TS is a heat shrink system, based on infrared technology.

It's designed for workbench applications and can process one part at a time.

The system is based on a touchscreen display and offers network communication.

By adding optional tools, besides linear splices, the STCS-evo500TS can work on end splices, ring terminals and other special applications.

> Media for this machine

Reference of the product
evo500TS 14-01-0024
with OPC UA 14-01-0055

Technology
Infrared

Available with OPC UA communication

Several new generation communication features as Ethernet, USB, HDMI, to connect external displays, WI-FI, etc.

Optional SDD (Splice Diameter Detection System)

Compact machine for space optimization

Technical Data

WORKING TEMPERATURE	
Min - Max [ºC] / [ºF]	250-550 / 482-1022
SHRINKING TIME	
Min - Max [s]	1-100
MEASUREMENTS	
Width; Length; Height [mm] / [in]	293; 560; 257 / 11.5; 22; 10.1
Weight [kg] / [lbs]	21 / 46
POWER SUPPLY/CONSUMPTION	
Supply	230 [V] @ 50Hz
Consumption	250 [mA] to 3 [A] (Max.700W)
PNEUMATIC	
Supply	Quick Hold Socket Ø8 [mm]
Supply Pressure	Min: 4bar; Max: 7bar; Rec: 6bar

CONNECTIONS	
Barcode Reader	USB
Temperature Sensor	Type K Thermocouple
Power Line	1 IEC C14 Socket
Programming	Touchscreen, Barcode Reader, External Device
Interface	Touchscreen
SHRINKING CHAMBER	
Shrinking Chamber [mm] / [in]	77; Ø32 / 3; Ø1.3
Min-Max Tube Ø [mm] / [in]	0-20 / 0-0.8
Min-Max Tube Length [mm] / [in]	0-75 / 0-3
Min-Max Cable Ø [mm] / [in]	0-10 / 0-0.4
Min-Max Cable Length [mm] / [in]	220-∞ / 8.7-∞
CALIBRATION	
Calibration Probe	ref.: 06-01-0158

Features

- Adjustable parameters: process temperature, shrinking time, etc.;
- Two different operating modes: M1 with temperature and shrinking time control; and M2 with pre-programmed references (999 in total);
- Additional operating mode (M3) for splice diameter detection (SDD System) and automatic parameters setting;
- The pre-programming of references can be done manually, using a PC with STCS-RCT software or using a USB stick;
- The selection of references can be done automatically using a barcode reader or manually on the touchscreen;
- Easy firmware upgrade using a USB stick;
- Cooling system;
- 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 lifetime of components;
- Partial and total cycle counter;
- Working time counter;
- Communication with ultrasonic welding machines;
- Network communication;
- HDMI port to mirror the system's display;
- Optional OPC UA communication;
- Interchangeable system language including: English, Portuguese, French and Spanish (others on demand).

Options

- End splice tool
  Ref: 26-23-0010
- CAN tool (end splice)
  Ref: 26-23-0013
- CAN tool (normal splice)
  Ref: 26-23-0014
- Ring terminal tool
  Ref: 26-23-0021
- SDD system
  Ref: 06-01-0230
- Cooling system
  Ref: 06-01-0229
- HDMI port
  Ref: 06-01-0233

DATASHEET

STCS evo500Flex

The STCS-evo500Flex is a heat shrink system, based on infrared technology.

One by one machine designed for workbench applications.

Modular and adaptable derivative of the STCS-evo500TS designed to enable users to incorporate an automatic centering mechanism into the equipment when required.

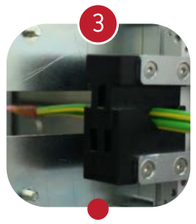
Reference of the product
14-01-0066

Technology
Infrared

> Media for this machine

Optional automatic centering system

Quartz infrared oven



SDD system for automatic detection of the product diameter

Communication with ultrasonic welding machines

Technical Data

WORKING TEMPERATURE	
Min - Max [ºC] / [ºF]	250-550 / 482-1022
SHRINKING TIME	
Min - Max [s]	1-100
MEASUREMENTS	
Width; Length; Height [mm] / [in]	431; 671; 333 / 17.0; 26.4; 13.1
Weight [kg] / [lbs]	30 / 66.1
POWER SUPPLY/CONSUMPTION	
Supply	230 [V] @ 50Hz
Consumption	250 [mA] to 3 [A] (Max.700W)
PNEUMATIC	
Supply	Quick Hold Socket Ø8 [mm]
Supply Pressure	Min: 5bar; Max: 7bar; Rec: 6bar

CONNECTIONS	
Barcode Reader	USB
Temperature Sensor	Type K Thermocouple
Power Line	1 IEC C14 Socket
Programming	Touchscreen, Barcode Reader, External Device
Interface	Touchscreen
SHRINKING CHAMBER	
Shrinking Chamber [mm] / [in]	77; Ø32 / 3; Ø1.3
Min-Max Tube Ø [mm] / [in]	0-20 / 0-0.8
Min-Max Tube Length [mm] / [in]	0-75 / 0-3
Min-Max Cable Ø [mm] / [in]	0-10 / 0-0.4
Min-Max Cable Length [mm] / [in]	300-∞ / 11.8-∞
Splice Detection Length [mm] / [in]	10-20 / 0.4-0.8
CALIBRATION	
Calibration Probe	ref.: 06-01-0158

Features

- Optional automatic centering system to guarantee the position of the heat shrink tube on the splice.
- Adjustable parameters: process temperature, shrinking time, etc.;
- Two different operating modes: M1 with temperature and shrinking time control; and M2 with pre-programmed references (999 in total);
- Additional operating mode (M3) for splice diameter detection (SDD System) and automatic parameters setting;
- The pre-programming of references can be done manually or using a USB stick;
- The selection of references can be done automatically using a barcode reader or manually on the touchscreen;
- Easy firmware upgrade using a USB stick;
- Cooling system;
- Manual and automatic calibration;
- User login;
- 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 lifetime of components;
- Working time counter and partial and total cycle counter;
- Communication with ultrasonic welding machines;
- Network communication;
- HDMI port to mirror the system's display;
- Optional OPC UA communication;
- Interchangeable system language including: English, Portuguese, French and Spanish (others on demand).

Options

- Automatic centering system
  Ref: 27-41-0001
- End splice tool
  Ref: 27-48-0005
- Ring terminal tool
  Ref: 27-48-0014

DATASHEET

STCS RCM

Reference of the product
14-01-0011

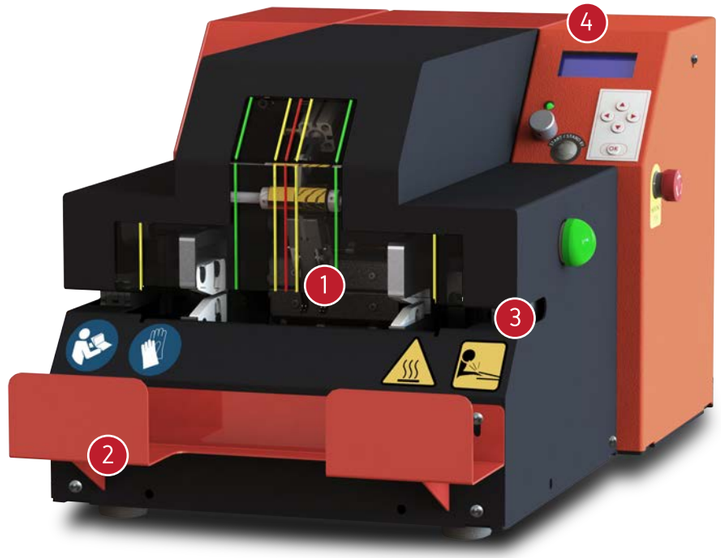
Technology
Infrared

> Media for this machine

The STCS-RCM is a machine for processing heat shrink tubes, based on infrared resistors with inbuilt automatic heat shrink tube centering system. It's designed for workbench applications and can process one part at a time.

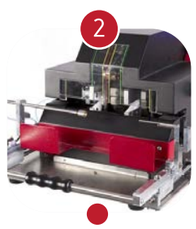
Built-in communication system with ultrasonic welding machines and several operating modes.

The centering feature ensure the automatic centering of the shrink tube in the middle of the splice (welded zone), in order to avoid mispositioned tubes.




1

Built-in centering system that ensures that the shrink tube is always in the middle of the splice


2

Can be equipped with an end splice tool with cooling that doesn't have to be removed to work with normal splices


3

Possibility of working with centering system or in normal mode


4

The pre-programming of references can be done manually or using a PC with STCS-RCT software

Technical Data

WORKING TEMPERATURE		
Min - Max [°C] / [°F]	300-550 / 572-1022	
SHRINKING TIME		
Min - Max [s]	1-99	
MEASUREMENTS		
Width; Length; Height [mm] / [in]	400; 623; 330 / 15.7; 24.5; 13	
Weight [kg] / [lbs]	37.5 / 82.7	
POWER SUPPLY/CONSUMPTION		
Supply	230 [V] @ 50Hz	
Consumption	250 [mA] to 3 [A] (Max.700W)	
PNEUMATIC		
Supply	Quick Hold Socket Ø8 [mm]	
Supply Pressure	Min: 4bar; Max: 7bar; Rec: 6bar	

CONNECTIONS		
Barcode Reader	RS232	
Temperature Sensor	Type K Thermocouple	
Power Line	1 IEC C14 Socket	
Programming	Membrane Keyboard, Barcode Reader, External Device	
Interface	LCD 16x4, Buzzer and LED	
SHRINKING CHAMBER		CENTERING
Shrinking Chamber [mm]/[in]	77; Ø32 / 3; Ø1.3	-
Min-Max Tube Ø [mm]/[in]	0-20 / 0-0.8	-
Min-Max Tube Length [mm]/[in]	0-75 / 0-3	45-75 / 1.8-3
Min-Max Cable Ø [mm]/[in]	0-20 / 0-0.8	-
Min-Max Cable Length [mm]/[in]	360-∞ / 14.2-∞	-
Splice Detection Length [mm]/[in]	13 & 18 / 0.5 & 0.7	-
CALIBRATION		
Calibration Probe	ref.: 06-01-0286	

Features

- Adjustable parameters: process temperature, shrinking time, etc.;
- Two working modes: automatic centering and normal mode;
- Two different operating modes: M1 with temperature and shrinking time control; and M2 with pre-programmed references (100 in total, each having from 1 to 40 shrinking times);
- The pre-programming of references can be done manually or using a PC with STCS-RCT software;
- The selection of references can be done automatically using a barcode reader or manually using either the rotating knob or the keyboard;
- Manual and automatic calibration;
- Use of labels for each shrinking time inside a reference, to help the selection of the assembly;
- Programming mode password protected;
- Special maintenance mode for hardware debug;
- Automatic cool down cycle to extend the lifetime of components;
- Cycle and time counter;
- Communication with ultrasonic welding machines;
- Air fault detection;
- Built-in cooling system;
- Interchangeable system language, including: Portuguese, English, French and Spanish (others on demand).

Options

- End splice tool
  Ref: 06-01-0071

- Cooling system
  Ref: 06-01-0133

DATASHEET

STCS RCMM

Reference of the product
OVEN 75mm 14-01-0058
OVEN 50mm 14-01-0047

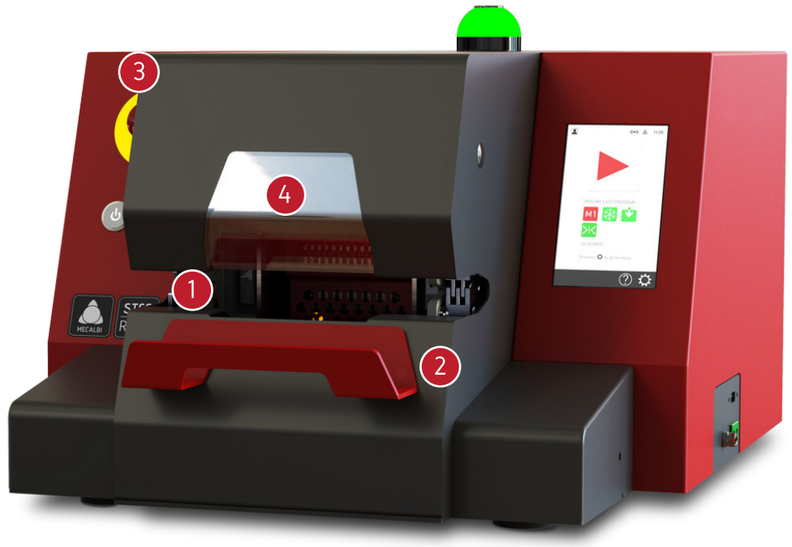
Technology
Infrared

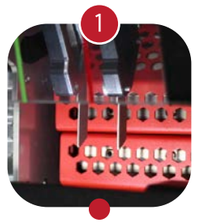
> Media for this machine

The STCS-RCMM it's the (r)evolution from the current STCS-RCM and a big improvement in what refers to quality requirements upcoming from the cable harness industry.

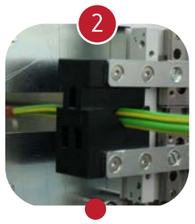
Based on a quartz infrared oven, its main feature is the automatic centering system with offset to compensate the potential movement of heat shrink tubes during the shrinking process.

Designed with a narrower shrinking chamber, it's able to process cables with more than 235mm in the case of the 50mm oven and cables with more than 295mm, using the 75mm oven.

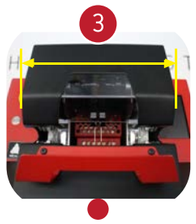




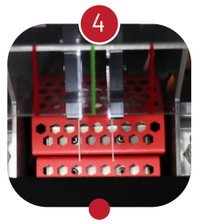
Automatic centering system with offset



Splice Diameter Detection System (SDD) for automatic loading of process parameters



Narrower shrinking chamber for cables with more than 235mm of length



Quartz infrared oven

Technical Data

WORKING TEMPERATURE		
Min - Max [ºC] / [ºF]	250-550 / 482-1022	
SHRINKING TIME		
Min - Max [s]	1-100	
MEASUREMENTS	OVEN 50mm	OVEN 75mm
Width; Length; Height [mm] / [in]	471; 637; 328 / 18.5; 25.1; 12.9	545; 659; 328 / 21.4; 25.9; 12.9
Weight [kg] / [lbs]	34 / 74.9	38 / 83.8
POWER SUPPLY/CONSUMPTION		
Supply	230 [V] @ 50Hz	
Consumption	500 [mA] to 3 [A] (Max.700W)	
PNEUMATIC		
Supply	Quick Hold Socket Ø8 [mm]	
Supply Pressure	Min: 4bar; Max: 7bar; Rec: 6bar	

CONNECTIONS		
Barcode Reader	USB	
Temperature Sensor	Type K Thermocouple	
Power Line	1 IEC C14 Socket	
Programming	Touchscreen, Barcode Reader, External Device	
Interface	Touchscreen, Buzzer and LED	
SHRINKING CHAMBER	OVEN 50mm	OVEN 75mm
Shrinking Chamber [mm] / [in]	52; Ø32 / 2; Ø1.3	77; Ø32 / 3; Ø1.3
Min-Max Tube Ø [mm] / [in]	0-20 / 0-0.8	0-20 / 0-0.8
Min-Max Tube Length [mm] / [in]	20-50 / 0.8-2	20-75 / 0.8-3
Min-Max Cable Ø [mm] / [in]	1-10 / 0.04-0.4	1-10 / 0.04-0.4
Min-Max Cable Length [mm] / [in]	235-∞ / 9.3-∞	295-∞ / 11.6-∞
Splice Detection Length [mm] / [in]	10-20 / 0.4-0.8	10-20 / 0.4-0.8
CALIBRATION		
Calibration Probe	ref.: 05-22-0024	

Features

- Adjustable parameters: process temperature, shrinking time, etc.;
- Two different operating modes: M1 with temperature and shrinking time control; and M2 with pre-programmed references (999 in total);
- The pre-programming of references can be done manually, using a PC with STCS-RCT software or using a USB stick;
- The selection of references can be done automatically using a barcode reader or manually on the touchscreen;
- Easy firmware upgrade using a USB stick;
- Automatic centering system with offset for heat shrink tube position assurance;
- Detection system to validate heat shrink tube position and dimension;
- Adjustable electrode for splice detection between 10mm and 20mm;
- Cooling system;
- Manual and automatic calibration;
- Programming mode password protected;
- Equipped with the external temperature probe connection for temperature reading and offset adjustment;
- Automatic cool down cycle to extend the lifetime of components;
- Working time counter and partial and total cycle counter;
- Communication with ultrasonic welding machines;
- Network communication;
- HDMI port to mirror the system's display;
- Interchangeable system language including: English, Portuguese, French and Spanish (others on demand).

Options

- Vacuum CAN end splice tool
  Ref: 27-36-0003
- End splice tool
  Ref: 27-36-0001
- CAN tool end splice
  Ref: 27-36-0002

DATASHEET

STCS VMir/VMir+

The STCS-VMir is a heat shrink system, based on infrared technology. It´s designed for workbench applications and can process several parts at the same time.

The same machine can be used on several applications, since it´s equipped with a fast exchangeable shrinking fixture system.

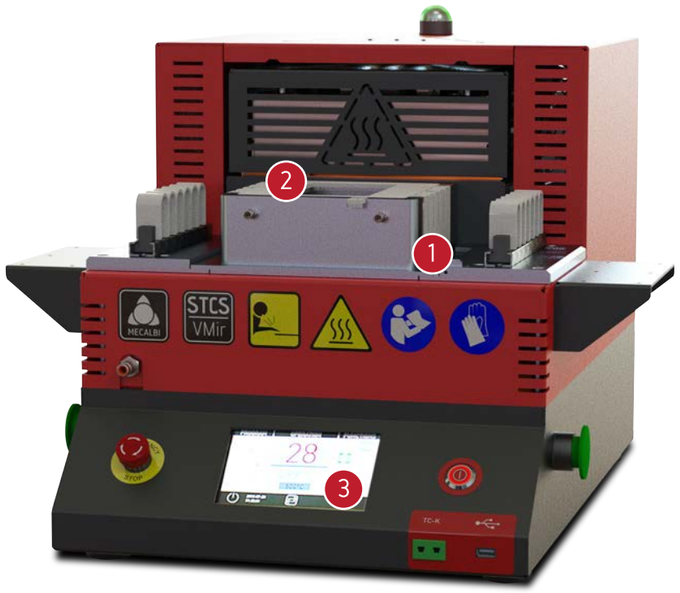
The shrinking fixture are designed according with the application specifications, making them ideal for special applications.

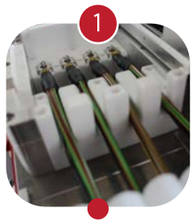
The main difference between STCS-VMir and STCS-VMir+, is on the shrinking fixture dimension: 225x100mm.

Reference of the product
VMir 14-01-0022
VMir+ 14-01-0032

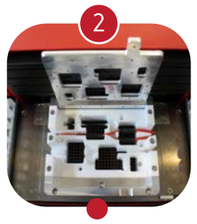
Technology
Infrared

> Media for this machine



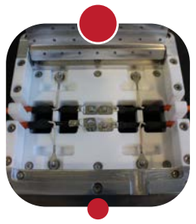


Fast interchangeable shrinking fixture system



Open work area for faster setup time

New and improved interface based on touchscreen technology, that allows network communication



Fixtures can be customized for the most challenging and complex applications

Technical Data

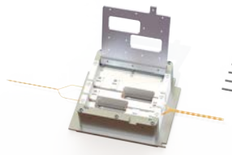
WORKING TEMPERATURE	VMir	VMir+
Min - Max [ºC] / [ºF]	250-500 / 482-932	250-500 / 482-932
SHRINKING TIME		
Min - Max [s]	1-100	1-100
MEASUREMENTS		
Width; Length; Height [mm] / [in]	540; 591; 455.5 / 21.3; 23.3; 17.9	540; 591; 475.5 / 21.3; 23.3; 18.7
Weight [kg] / [lbs]	37.5; 82.7	43; 94.8
POWER SUPPLY/CONSUMPTION		
Supply	230 [V] @ 50Hz	230 [V] @ 50Hz
Consumption	500 [mA] to 10 [A] (Max.2300W)	500 [mA] to 14 [A] (Max.3200W)
PNEUMATIC		
Supply	Quick Hold Socket Ø8 [mm]	
Supply Pressure	Min: 4bar; Max: 7bar; Rec: 6bar	

CONNECTIONS		
Barcode Reader	USB	
Temperature Sensor	Type K Thermocouple	
Power Line	1 IEC C20 Socket	
Programming	Touchscreen, Barcode Reader, External Device	
Interface	Touchscreen, Buzzer and LED	
SHRINKING CHAMBER	VMir	VMir +
Shrinking Chamber [mm] / [in]	120; 120; 57 / 4.7; 4.7; 2.2	100; 225; 55 / 3.9; 8.9; 2.2
Min-Max Tube Ø [mm] / [in]	0-45 / 0-1.8	0-45 / 0-1.8
Min-Max Tube Length [mm] / [in]	0-120 / 0-4.7	0-200 / 0-7.9
Min-Max Cable Ø [mm] / [in]	0-45 / 0-1.8	0-40 / 0-1.6
Min-Max Cable Length [mm] / [in]	-	-
CALIBRATION		
Calibration Probe	ref.: 06-01-0277	ref.: 26-33-0001

Features

- Adjustable parameters: process temperature, shrinking time, etc;
- Easy and fast interchangeable shrinking fixture;
- Two different operating modes: M1 with temperature and shrinking time control; and M2 mode with pre-programmed references (999 in total);
- The pre-programming of references can be done manually, using a PC with STCS-RCT software or a USB stick;
- Automatic selection of references using a barcode reader or manually on the touchscreen;
- Easy firmware upgrade using a USB stick;
- Use of labels for each shrinking time inside a reference;
- Built-in cooling system;
- Manual and automatic calibration;
- Programming mode password protected;
- Special maintenance mode for hardware debug;
- External temperature probe connection for temperature reading and offset adjustment;
- Automatic cool down cycle to extend the lifetime of components;
- Partial and total cycle counter;
- Communication with ultrasonic welding machines;
- Working time counter;
- Network communication;
- Interchangeable system language including: English, Portuguese, French and Spanish (others on demand).

Options



- Custom shrinking fixture
  (VMir) Ref: 06-01-0222
  (VMir+) Ref: 27-28-0001

- Dual fixture
  (VMir) Ref: 27-17-0005
  (VMir+) Ref: 27-28-0003

DATASHEET

STCS EHMir

Reference of the product
14-01-0060

Technology
Infrared

> Media for this machine

The STCS-EHMir is a heat shrink system based on a ceramic infrared oven with five independent zones for temperature control making it ideal for applications where efficiency is the most important criteria.

Oven movement electrically controlled to guarantee the exact position and speed of the shrinking process.

Optional vision system to ensure the accuracy in quality control when validating the end-product in variables like the presence and position of components, contaminated terminals, or glue overflow.

RFID technology for shrinking fixture detection to guarantee the process integrity by establishing a correlation between the product and the process parameters.


1

Vision system for improved control of the process


2

RFID system with shrinking fixture detection for automatic loading of process parameters


3

Oven movement based on high precision electrical motors


4

Up to 5 different programable shrinking positions with independent process parameters

Technical Data

WORKING TEMPERATURE	
Min - Max [ºC] / [ºF]	350-550 / 662-1022
SHRINKING TIME	
Min - Max [s]	1-99
SHRINKING SPEED	
Min - Max [mm/s]	0-99
MEASUREMENTS	
Width; Length; Height [mm] / [in]	691; 580; 1778 / 22.8; 27.2; 70
Weight [kg] / [lbs]	135 / 298
POWER SUPPLY/CONSUMPTION	
Supply	230 [V] @ 50Hz
Consumption	250 [mA] to 15 [A] (Max.3500W)
PNEUMATIC	
Supply	-
Supply Pressure	-

CONNECTIONS	
Barcode Reader	USB
Temperature Sensor	Type K Thermocouple
Power Line	1 IEC 60309 Socket
Programming	Touchscreen, Barcode Reader, External Device
Interface	Touchscreen
SHRINKING CHAMBER	
Shrinking Chamber [mm] / [in]	100; 225; 55 / 3.9; 8.9; 2.1
Min-Max Tube Ø [mm] / [in]	0-45 / 0-1.8
Min-Max Tube Length [mm] / [in]	0-200 / 0-7.9
Min-Max Cable Ø [mm] / [in]	0-45 / 0-1.8
Min-Max Cable Length [mm] / [in]	-
CALIBRATION	
Calibration Probe	ref.: 27-50-0006

Features

- Adjustable parameters: process temperature, shrinking speed, shrinking time, cooling etc.;
- Easily exchangeable shrinking fixtures;
- Up to 5 different shrinking positions with independent process parameters;
- Electrical oven motor for improved accuracy;
- Automatic motor speed adjustment, in function of the programmed parameters;
- Optional vision system for improved process control like validation of components or detection of glue overflow;
- Pre-programable process parameters that may be saved in the system's internal memory;
- Automatic selection of references using a barcode reader or manually on the touchscreen display;
- Optional RFID system with shrinking fixture detection for automatic loading of process parameters;
- Easy firmware upgrade using a USB stick;
- User login;
- Manual and automatic calibration;
- Special maintenance mode for hardware debug;
- Equipped with external temperature probe connection for temperature reading and offset adjustment;
- Automatic cool-down cycle to extend the lifetime of components;
- Working time counter and partial and total cycle counter;
- Network communication;
- Optional OPC UA communication;
- Interchangeable system language, including English, Portuguese, French and Spanish (others on demand).

Options

- Dual fixture system
  Ref: 27-50-0002

- RFID system
  Ref: 27-50-0004

- UV vision system
  Ref: 27-50-0005

DATASHEET

STCS HM400

The STCS-HM400 is a powerful heat shrink system designed with an exceptionally wide chamber to process larger applications.

The 400mm length oven allows you to transform your productivity results and experiment a variety of harnesses in a single device.

With customizable fixtures designed for special applications, this equipment facilitates processes and any additional requirement, such as ensuring position and protect sensible components.

Reference of the product
14-01-0068

Technology
Infrared

> Media for this machine

Extra-wide oven with 400mm length

Customizable fixtures to fit special applications

Optional dual fixture upgrade for increase output volume

Electrical cabinet incorporated into the equipment

Technical Data

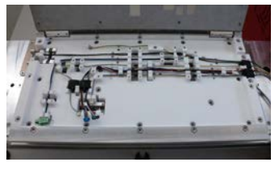
WORKING TEMPERATURE	
Min - Max [ºC] / [ºF]	250-500 / 482-932
SHRINKING TIME	
Min - Max [s]	1-100
MEASUREMENTS	
Width; Length; Height [mm] / [in]	692; 845; 1500 / 27.2; 33.3; 59
Weight [kg] / [lbs]	170 / 375
POWER SUPPLY/CONSUMPTION	
Supply	400 [V] ~3/N @ 50 [Hz]
Consumption	500 [mA] to 11 [A] (Max.2500W)
PNEUMATIC	
Supply	Quick Hold Socket Ø8 [mm]
Supply Pressure	Min: 5bar; Max: 7bar, Rec: 6bar

CONNECTIONS	
Barcode Reader	USB
Temperature Sensor	Type K Thermocouple
Power Line	1 IEC 60309 (6h) 3 Phase Socket
Programming	Touchscreen and Barcode Reader
Interface	Touchscreen, Buzzer and LED
SHRINKING CHAMBER	
Shrinking Chamber [mm] / [in]	400; 200; 40 / 15.7; 7.9; 1.6
Min-Max Tube Ø [mm] / [in]	0-30 / 0-1.2
Min-Max Tube Length [mm] / [in]	0-400 / 0-15.7
Min-Max Cable Ø [mm] / [in]	0-30 / 0-1.2
Min-Max Cable Length [mm] / [in]	-
CALIBRATION	
Calibration Probe	ref.: 05-22-0020

Features

- Adjustable parameters: process temperature, shrinking time, cooling time etc.;
- Easy and fast replaceable fixture;
- Two different operating modes: M1 with temperature and shrinking time control; and M2 with pre-programmed references (999 in total);
- The pre-programming of references can be made manually using a PC with STCS-RCT software or using a USB stick;
- Automatic selection of references using a barcode reader or manually on the touchscreen;
- Easy firmware upgrade using a USB stick;
- Safety system that protects the operator from the oven's linear movement;
- Built-in cooling system;
- 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 lifetime of components;
- Working time counter and partial and total cycle counter;
- Network communication;
- Interchangeable system language including: English, Portuguese, French and Spanish (others on demand).

Options



- Custom shrinking chamber
  Ref: 29-03-0001

- Dual fixture
  Ref: 27-49-0001

DATASHEET

STCS CS14

The STCS-CS14 is a heat shrink system designed as a short conveyor based on infrared resistors.

Compact and lightweight machine for large production requirements since the output is only determined by the pace of the operator.

Optional Integrated System Automatic Centering (ISAC14) for heat shrink tube position and length assurance.

Reference of the product
14-01-0025

Technology
Infrared

> Media for this machine

The equipment can be provided with optional systems like cooling, cable counter, auxiliary centering system, custom-made workbench and others

Communication features like Ethernet, USB, Wi-Fi, etc.

Compact and lightweight machine for space optimization

Optional ISAC14 (Integrated System Automatic Centering) for heat shrink tubing position assurance

Technical Data

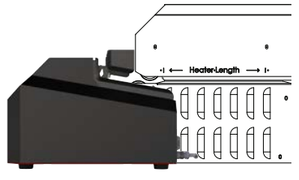
WORKING TEMPERATURE		
Min - Max [ºC] / [ºF]	300-600 / 572-1112	
SHRINKING TIME		
Min - Max [s]	3-100	
MEASUREMENTS		ISAC14
Width; Length; Height [mm] / [in]	221; 842; 398 / 8.7; 33.1; 15.7	341; 1046; 398 / 13.4; 41.1; 15.7
Weight [kg] / [lbs]	35 / 77.2	55 / 121
POWER SUPPLY/CONSUMPTION		
Supply	230 [V] @ 50Hz	
Consumption	500 [mA] to 9.5 [A] (Max.2200W)	
PNEUMATIC		
Supply	Quick Hold Socket Ø6 [mm]	Quick Hold Socket Ø8 [mm]
Supply Pressure	Min: 4bar; Max: 7bar; Rec: 6bar	Min: 4bar; Max: 7bar; Rec: 6bar

CONNECTIONS		
Barcode Reader	USB	
Temperature Sensor	Type K Thermocouple	
Power Line	1 IEC C20 Socket	
Programming	Touchscreen, Barcode Reader, External Device	
Interface	Touchscreen	
SHRINKING CHAMBER		ISAC14
Shrinking Chamber [mm] / [in]	220; 70; 30 / 8.7; 2.8; 1.2	220; 70; 30 / 8.7; 2.8; 1.2
Min-Max Tube Ø [mm] / [in]	0-25 / 0-1	0-25 / 0-1
Min-Max Tube Length [mm] / [in]	0-65 / 0-2.6	35-65 / 1.4-2.6
Min-Max Cable Ø [mm] / [in]	0-12 / 0-0.5	0-10 / 0-0.4
Min-Max Cable Length [mm] / [in]	150-∞ / 5.9-∞	300-∞ / 11.8-∞
Splice Detection Length [mm] / [in]	-	7-21 / 0.3-0.8
CALIBRATION		
Calibration Probe	ref.: 06-01-0279	

Features

- Adjustable parameters: process temperature, shrinking time, etc.;
- Two different operating modes: M1 with temperature and time control; and M2 with pre-programmed references (999 in total);
- The pre-programming of references can be done manually or using a PC with STCS-RCT software or using a USB stick;
- The selection of references can be done automatically using a barcode reader or manually on the touchscreen;
- Automatic conveyor's speed adjustment, in function of the programmed shrinking time;
- Optional automatic centering system with heat shrink tube length control (ISAC14);
- Adjustable electrode for splice detection between 6mm and 22mm (ISAC14);
- Custom-made workbench with long/heavy cables support system;
- Manual and automatic calibration;
- 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 lifetime of components;
- Working time counter and partial and total cycle counter;
- Network communication;
- Interchangeable system language including: English, Portuguese, French and Spanish (others on demand).

Options



- ISAC14
  Ref: 27-18-0002
- Cable counter
  Ref: 06-01-0236
- Cooling system
  Ref: 06-01-0235
- Cable support system
  Ref: 06-01-0237
- Auxiliary centering system
  Ref: 06-01-0232
- Ethernet port
  Ref: 06-01-0238
- Workbench
  Ref: 06-01-0234
- End splice tool
  Ref: 06-01-0125
- Ring terminal tool
  Ref: 06-01-0106

DATASHEET

STCS CS19

Reference of the product
14-01-0007

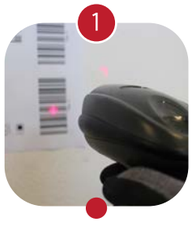
Technology
Infrared

> Media for this machine

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 using barcode readers.

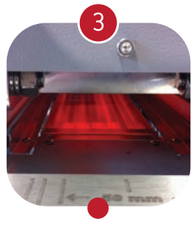
Once the reference is selected, the machine automatically adjusts all parameters to the pre-programmed values, including shrinking time (conveyor's speed).


1

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


2

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


3

New quartz infrared resistors with glass protection, for increase durability

Optional ISAC19STA for automatic centering of heat shrink tubes in linear splices

Technical Data

WORKING TEMPERATURE		
Min - Max [ºC] / [ºF]	300-600 / 572-1112	
SHRINKING TIME		
Min - Max [s]	2-50	
MEASUREMENTS		ISAC19STA
Width; Length; Height [mm] / [in]	284; 1540; 545 / 11.2; 60.6; 21.5	805; 1700; 560 / 31.7; 66.9; 22
Weight [kg] / [lbs]	100 / 220.5	145 / 319.7
POWER SUPPLY/CONSUMPTION		
Supply	230 [V] @ 50Hz	
Consumption	500 [mA] to 15.7 [A] (Max.3600W)	
PNEUMATIC		
Supply	Quick Hold Socket Ø8 [mm]	Quick Hold Socket Ø8 [mm]
Supply Pressure	Min: 4bar; Max: 7bar; Rec: 6bar	Min: 4bar; Max: 7bar; Rec: 6bar

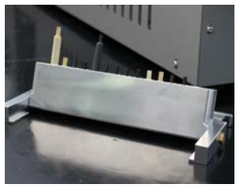
CONNECTIONS		
Barcode Reader	RS232	
Temperature Sensor	Type K Thermocouple	
Power Line	1 IEC C20 Socket	
Programming	Membrane Keyboard, Barcode Reader, External Device	
Interface	LCD 16x2, Buzzer and LED	
SHRINKING CHAMBER		ISAC19STA
Shrinking Chamber [mm] / [in]	285; 95; 40 / 11.2; 3.7; 1.6	-
Min-Max Tube Ø [mm] / [in]	0-25 / 0-1	0-25 / 0-1
Min-Max Tube Length [mm] / [in]	0-90 / 0-3.5	35-85 / 1.4-3.3
Min-Max Cable Ø [mm] / [in]	0-20 / 0-0.8	0-10 / 0-0.4
Min-Max Cable Length [mm] / [in]	215-∞ / 8.5-∞	450-∞ / 17.7-∞
Splice Detection Length [mm] / [in]	-	7-21 / 0.3-0.8
CALIBRATION		
Calibration Probe	ref.: 05-22-0010	

Features

- Adjustable parameters: process temperature, shrinking time, etc.;
- Two different operating modes: M1 with temperature and time control; and M2 with pre-programmed references (100 in total);
- The pre-programming of references can be done manually or using a PC with STCS-RCT software;
- The selection of references can be done automatically using a barcode reader or manually using either the rotating knob or the keyboard;
- Automatic conveyor's speed adjustment, in function of the programmed shrinking time;
- Manual and automatic calibration;
- Optional automatic centering system with heat shrink tube dimension and position control (ISAC19STA);
- ISAC19STA to operate as a standalone equipment or in server mode to communicate with client (heat shrink system);
- Programming mode password protected;
- Special maintenance mode for hardware debug;
- Equipped with the external thermocouple connection for temperature reading and offset adjustment;
- Automatic cool-down cycle to extend the lifetime of components;
- Working time counter and partial and total cycle counter;
- Can be supplied with a special kit for ring terminals and/or end splices;
- Interchangeable system language including: English, Portuguese, French and Spanish (others on demand).

Options

- Auxiliary centering system
  Ref: 06-01-0131



- Normal cap to end cap tool
  Ref: 26-24-000X

- ISAC19STA
  Ref: 27-09-0002

- End splice tool
  Ref: 06-01-0125
- Ring terminal tool
  Ref: 06-01-0106
- Cooling system
  Ref: 06-01-0107

DATASHEET

STCS CS19TS

Reference of the product
14-01-0063

Technology
Infrared

> Media for this machine

The STCS-CS19TS is the evolution from Mecalbi's bigger heat shrink conveyor to process linear splices in a fast and continuous manner.

Based on a quartz infrared oven to guarantee outstanding process temperature, it is designed for mass production since the output is only determined by the pace of the operator.

Optional automatic centering device (ISAC19) to guarantee the position and length of the heat shrink tube. It also features the new option of offset definition.


1

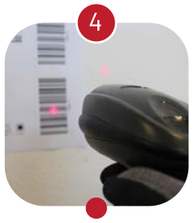
Optional ISAC19 for heat shrink tube position assurance with the option of offset definition


2

User-friendly touchscreen interface


3

New connections like Ethernet and USB


4

Use of references, that can be selected manually or using barcode readers, to automatically adjust the process parameters

Technical Data

WORKING TEMPERATURE		
Min - Max [°C] / [°F]	300-600 / 572-1112	
SHRINKING TIME		
Min - Max [s]	5-70	
MEASUREMENTS		with ISAC19
Width; Length; Height [mm] / [in]	562; 1329; 559 / 22.1; 52.3; 22	562; 1485; 559 / 22.1; 58.5; 22
Weight [kg] / [lbs]	110 / 243	145 / 320
POWER SUPPLY/CONSUMPTION		
Supply	230 [V] @ 50Hz	
Consumption	500 [mA] to 16 [A] (Max.3600W)	
PNEUMATIC		
Supply	-	Quick Hold Socket Ø8 [mm]
Supply Pressure	-	Min: 5bar; Max: 7bar, Rec: 6bar

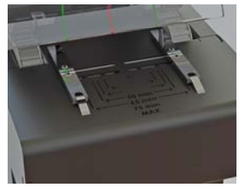
CONNECTIONS		
Barcode Reader	USB	
Temperature Sensor	Type K Thermocouple	
Power Line	1 IEC C20 Socket	
Programming	Touchscreen, Barcode Reader, External Device	
Interface	Touchscreen, Buzzer and LED	
SHRINKING CHAMBER		with ISAC19
Shrinking Chamber [mm] / [in]	200; 98; 30 / 8; 4; 1.2	-
Min-Max Tube Ø [mm] / [in]	0-25 / 0-1	0-17/ 0-0.7
Min-Max Tube Length [mm] / [in]	0-90 / 0-3.5	35-65 / 1.4-3
Min-Max Cable Ø [mm] / [in]	0-10 / 0-0.4	0-10 / 0-0.4
Min-Max Cable Length [mm] / [in]	215-∞ / 8.5-∞	450-∞ / 18-∞
Splice Detection Length [mm] / [in]	-	7-21 / 0.3-0.8
CALIBRATION		
Calibration Probe	ref.: 05-22-0022	

Features

- Adjustable parameters: process temperature, shrinking time, etc.;
- Two different operating modes: M1 with temperature and time control; and M2 mode with pre-programmed references (999 in total);
- Automatic reference selection using a barcode reader or manually on the touchscreen;
- Easy firmware upgrade using a USB stick;
- Automatic conveyor's speed adjustment, in function of the programmed shrinking time;
- Optional automatic centering system with heat shrink tube dimension and position control (ISAC19);
- Adjustable electrode for splice detection between 6mm and 22mm (ISAC19);
- Cable counter;
- Manual and automatic calibration;
- User login;
- Equipped with the external thermocouple connection for temperature reading and offset adjustment;
- Hydraulic system to assist on the lifting of the equipment top structure for maintenance purposes;
- Automatic cool-down cycle to extend the lifetime of components;
- Heating elements failure detection;
- Working time counter and partial and total cycle counter;
- Network communication;
- Interchangeable system language including: English, Portuguese, French and Spanish (others on demand).

Options

- ISAC19
  Ref: 27-46-0005



- Auxiliary centering system
  Ref: 27-46-0004

- Workbench
  Ref: 27-46-0002

DATASHEET

STCS CST

Reference of the product
14-01-0049

Technology
Infrared

> Media for this machine

The STCS-CST is a heat shrink system designed as a short conveyor to process end splices, connectors and terminal applications in a fast and continuous manner.

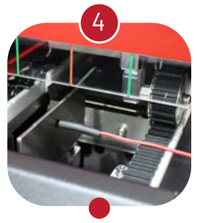
Equipped with an inner oven heat shrink tube stopper to guarantee its position on the assembly.

Optionally, the system may be equipped with a side transporter to help the routing of big and heavy assemblies during the shrinking process.

Optional side transporter to help the routing of heavier assemblies during the shrinking process

Customizable attachable jigs for special applications

Adjustable heat shrink tube stopper to guarantee the correct position of the insulator



Specially developed to process faston terminals

Technical Data

WORKING TEMPERATURE	
Min - Max [ºC] / [ºF]	300-600 / 572-1112
SHRINKING TIME	
Min - Max [s]	10-49
MEASUREMENTS	
Width; Length; Height [mm] / [in]	598; 943; 422 / 23.5; 37; 16.6
Weight [kg] / [lbs]	65 / 143.3
POWER SUPPLY/CONSUMPTION	
Supply	230 [V] @ 50Hz
Consumption	200 [mA] to 10.2 [A] (Max.2300W)
PNEUMATIC	
Supply	-
Supply Pressure	-

CONNECTIONS	
Barcode Reader	USB
Temperature Sensor	Type K Thermocouple
Power Line	1 IEC C20 Socket
Programming	Touchscreen, Barcode Reader, External Device
Interface	Touchscreen, Buzzer and LED
SHRINKING CHAMBER	
Shrinking Chamber [mm] / [in]	220; 95; 50 / 8.7; 3.7; 1.9
Min-Max Tube Ø [mm] / [in]	0-20 / 0-0.8
Min-Max Tube Length [mm] / [in]	0-90 / 0-3.5
Min-Max Cable Ø [mm] / [in]	0-12 / 0-0.5
Min-Max Cable Length [mm] / [in]	140-∞ / 5.5-∞
CALIBRATION	
Calibration Probe	ref.: 26-47-0002

Features

- Adjustable parameters: process temperature, shrinking time, etc.;
- Two different operating modes: M1 with temperature and shrinking time control; and M2 with pre-programmed references (999 in total);
- The pre-programming of references can be made manually, using a PC with STCS-RCT software or using a USB stick;
- The selection of references can be done automatically using a barcode reader or manually on the touchscreen;
- Easy firmware upgrade using a USB stick;
- Capable of processing faston terminals, assuring the position of the heat shrink tube;
- Manual and automatic calibration;
- User login;
- Adjustable heat shrink tube stopper to guarantee the correct position of the insulator;
- Optional side transporter to help the routing of heavier assemblies during the shrinking process;
- Equipped with the external temperature probe connection for temperature reading and offset adjustment;
- Automatic cool down cycle to extend the lifetime of components;
- Working time counter and partial and total cycle counter;
- Communication with ultrasonic welding machines;
- Network communication;
- Interchangeable system language including: English, Portuguese, French and Spanish (others on demand).

Options

- Side transporter
  Ref: 27-38-0001

- Attachable jigs kit
  Ref: 27-38-0002

- Single attachable jig
  Ref: 27-38-0003

DATASHEET

STCS LC/LC XL

Reference of the product
LC 14-01-0021
LC XL 14-01-0027
Technology
Infrared

> Media for this machine

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.

The STCS-LC XL is a variation of the standard STCS-LC mahine. The bigger shrinking chamber (500x820mm) allows a higher range of harness dimensions and when using custom fixtures it´s possible to protect any sensible component and make sure of any position requirement.


1

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


2

Possibility to use customized fixtures for special applications


3

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


4

New and improved interface based on touchscreen technology

Technical Data

WORKING TEMPERATURE	LC	LC XL
Min - Max [ºC] / [ºF]	250-400 / 482-752	350-600 / 662-1112
SHRINKING TIME		
Min - Max [s]	6-160	20-180
MEASUREMENTS		
Width; Length; Height [mm] / [in]	715; 1200; 508 / 28.1; 47.2; 20	1020; 1860; 771 / 40.2; 73.2; 30.4
Weight [kg] / [lbs]	80 / 176.4	220 / 485
POWER SUPPLY/CONSUMPTION		
Supply	230 [V] @ 50Hz	400 [V] ~3/N @ 50Hz
Consumption	500 [mA] to 16 [A] (Max.3600W)	500 [mA] to 30 [A] (Max.20000W)
PNEUMATIC		
Supply	Quick Hold Socket Ø8 [mm]	
Supply Pressure	Min: 4bar; Max: 7bar; Rec: 6bar	

CONNECTIONS		
Barcode Reader	USB	
Temperature Sensor	Type K Thermocouple	
Power Line	1 IEC C20 Socket (LC) 1 IEC 60309 (6H) 3 Phase Socket (LC XL)	
Programming	Touchscreen, Barcode Reader, External Device	
Interface	Touchscreen, Buzzer and LED	
SHRINKING CHAMBER	LC	LC XL
Shrinking Chamber [mm] / [in]	400; 360; 100 / 15.7; 14.2; 3.9	500; 820; 140 / 19.7; 32.3; 5.5
Min-Max Tube Ø [mm] / [in]	0-100 / 0-3.9	0-140 / 0-5.5
Min-Max Tube Length [mm] / [in]	-	-
Min-Max Cable Ø [mm] / [in]	0-100 / 0-3.9	0-140 / 0-5.5
Min-Max Cable Length [mm] / [in]	-	-
CALIBRATION		
Calibration Probe	ref.: 06-01-0192	

Features

- Adjustable parameters: process temperature, shrinking time, etc;
- Two different operating modes: M1 with temperature and shrinking time control; and M2 with pre-programmed references (999 in total);
- The pre-programming of references can be done manually, using a PC with STCS-RCT software 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 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 (up 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 lifetime of components;
- Partial and total cycle counter;
- Working time counter;
- Interchangeable system language, including: English, Portuguese, French and Spanish (others on demand).

Options

- Extra-cooling system
  Ref: 06-01-0189

- Custom fixture
  Ref: 27-16-0001

- STCS-LC RF (Rotative Fixtures)
  Ref: 14-01-0040

DATASHEET

STCS SL800

The STCS-SL800 is a heat shrink system based on infrared technology capable of processing harnesses up to 800 millimeters long.

The sliding oven, with both x and y movements, covers a wide area and ensures a precise and uniform process once the shrinking positions within its range can be predefined.

Designed for large applications, it's also a flexible equipment when using customized jigs for special applications.

Reference of the product
14-01-0067

Technology
Infrared

> Media for this machine

Electrical oven motor with x and y movement

5 different shrinking positions with possibility of having different process parameters

Cooling system with independent movement

Adjustable product holders adaptable to different lengths and configurations of product

Technical Data

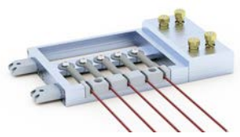
WORKING TEMPERATURE	
Min - Max [ºC] / [ºF]	350 - 550 / 662 - 1022
SHRINKING TIME	
Min - Max [s]	1 - 99
MEASUREMENTS	
Width; Length; Height [mm] / [in]	1550; 785; 1400 / 61.0; 30.9; 55.1
Weight [kg] / [lbs]	220 / 485.0
POWER SUPPLY/CONSUMPTION	
Supply	200 - 240 [V] @ 50Hz
Consumption	7 [A] (Max.1600W)
PNEUMATIC	
Supply	-
Supply Pressure	-

CONNECTIONS	
Barcode Reader	USB
Temperature Sensor	Type K Thermocouple
Power Line	1 IEC 60309 Socket
Programming	Touchscreen and Barcode Reader
Interface	Touchscreen, Buzzer and LED
SHRINKING CHAMBER	
Shrinking Chamber [mm] / [in]	103; 132; 69 / 4.1; 5.2; 2.7
Min-Max Tube Ø [mm] / [in]	0-40 / 0-1.6
Min-Max Tube Length [mm] / [in]	0-800 / 0-31.5
Min-Max Cable Ø [mm] / [in]	0-40 / 0-1.6
Min-Max Cable Length [mm] / [in]	-
CALIBRATION	
Calibration Probe	ref.: 27-52-0002

Features

- Adjustable parameters: process temperature, shrinking time, cooling etc.;
- Possibility of having up to 5 different shrinking positions with independent process parameters;
- Adjustable product holders to adapt to different sizes of harnesses;
- The pre-programming of references can be made manually on the touchscreen or using a USB stick;
- The selection of references can be done automatically using a barcode reader or manually on the touchscreen;
- Easy firmware upgrade;
- Automatic motor speed adjustment, in function of the programmed parameters;
- Electrical oven motor with x and y movement;
- Independent cooling system for process optimization; Manual and automatic calibration;
- Programming mode password protected;
- Special maintenance mode for hardware debug;
- Equipped with external temperature probe connection for temperature reading and offset adjustment;
- Automatic cool-down cycle to extend the lifetime of components;
- Working time counter and partial and total cycle counter;
- Network communication;
- Interchangeable system language, including English, Portuguese, French and Spanish (others on demand).

Options



- Custom shrinking fixture
  Ref: 27-52-0001

DATASHEET

STCS RT/RTTS

The STCS-RT/RTTS 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.

The system has two independent workstations (with independent shrinking parameters) and a movable oven. Each workstation is provided with support for tooling fixtures that can be used on a variety of small components, such as ring terminals and small connectors.

Reference of the product
RT 14-01-0008
RTTS 14-01-0030

Technology
Infrared

> Media for this machine

Two completely independent workstations with separate parameters

Each workstation can perform, in average, 10 assemblies simultaneously

Fully automated oven movement

Easily replaceable jigs (less than 5 seconds to swap)

Technical Data

	RT	RTTS
WORKING TEMPERATURE		
Min - Max [ºC] / [ºF]	400-550 / 752-1022	300-550 / 572-1022
SHRINKING TIME		
Min - Max [s]	1-120	
MEASUREMENTS		
Width; Length; Height [mm] / [in]	720; 1500; 506 / 28.3; 59.1; 20	
Weight [kg] / [lbs]	123 / 271.2	
POWER SUPPLY/CONSUMPTION		
Supply	230 [V] @ 50Hz	
Consumption	500 [mA] to 16 [A] (Max.3600W)	
PNEUMATIC		
Supply	-	
Supply Pressure	-	

CONNECTIONS	
Barcode Reader	RS232 (RT) / USB (RTTS)
Temperature Sensor	Type K Thermocouple
Power Line	1 IEC C20 Socket
Programming	Membrane Keyboard Barcode Reader, External Device (RT) / Touchscreen, Barcode Reader, External Device (RTTS)
Interface	LCD 16x2, Buzzer and LED (RT) / Touchscreen, Buzzer and LED (RTTS)
SHRINKING CHAMBER	
Shrinking Chamber [mm] / [in]	95; 275; 50 / 3.7; 10.8; 2
Min-Max Tube Ø [mm] / [in]	0-30 / 0-1.2
Min-Max Tube Length [mm] / [in]	0-85 / 0-3.3
Min-Max Cable Ø [mm] / [in]	0-25 / 0-1
Min-Max Cable Length [mm] / [in]	-
CALIBRATION	
Calibration Probe	ref.: 06-01-0316 (RT) ref.: 06-01-0280 (RTTS)

Features

- Adjustable parameters: process temperature, shrinking time, etc;
- Two independent workstations with independent parameters (shrinking time);
- Two different operating modes: M1 with temperature and shrinking time control; and M2 with pre-programmed references, (100 in total);
- The pre-programming of references can be done manually or using a PC with STCS-RCT software;
- Use of labels for each shrinking time inside a reference;
- Tool fixtures with adjustable stopper to ensure the shrink tube's position;
- Easily replaceable jigs;
- Manual and automatic calibration;
- Programming mode password protected;
- Special maintenance mode for hardware debug;
- External temperature probe connection for temperature reading and offset adjustment;
- Automatic cool down cycle to extend the lifetime of components;
- Partial and total cycle counter;
- Working time counter;
- Interchangeable system language, including: Portuguese, English, French and Spanish (others on demand).

Options

- Custom jigs (pair)
  Ref: 06-01-0058

- STCS-RTTS DYCOD NEW
  Ref: 14-01-0054

DATASHEET

STCS MYX

The STCS-MYX is a heat shrink system based on an infrared quartz oven with Y and X axes movement to improve the process efficiency and effectiveness.

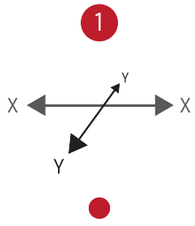
It's designed with two independent workstations and a shuttle oven that moves from one station to the other, reducing dead-time and boosting productivity.

Optionally, the equipment can be provided with RFID technology for fixture detection to guarantee the process integrity.

Reference of the product
14-01-0046

Technology
Infrared

> Media for this machine



Oven with X and Y movement for improved process consistency

Workstations with independent process parameters

Easily exchangeable fixtures

Improved safety mechanisms to protect the user

Technical Data

WORKING TEMPERATURE	
Min - Max [ºC] / [ºF]	350-550 / 662-1022
SHRINKING TIME	
Min - Max [s]	1-99
MEASUREMENTS	
Width; Length; Height [mm] / [in]	1688; 726; 1283 / 66.5; 28.6; 50.5
Weight [kg] / [lbs]	285 / 628
POWER SUPPLY/CONSUMPTION	
Supply	230 [V] @ 50Hz
Consumption	14 [A] (Max.3220W)
PNEUMATIC	
Supply	Quick Hold Socket Ø8 [mm]
Supply Pressure	Min: 4bar; Max: 7bar; Rec: 6bar

CONNECTIONS	
Barcode Reader	USB
Temperature Sensor	Type K Thermocouple
Power Line	1 IEC 60309 Socket
Programming	Touchscreen, Barcode Reader
Interface	Touchscreen, Buzzer and LED
SHRINKING CHAMBER	
Shrinking Chamber [mm] / [in]	300; 110; 55 / 11.8; 4.3; 2.2
Min-Max Tube Ø [mm] / [in]	0-50 / 0-2
Min-Max Tube Length [mm] / [in]	0-105 / 0-4.1
Min-Max Cable Ø [mm] / [in]	0-45 / 0-1.8
Min-Max Cable Length [mm] / [in]	195-∞ / 7.7-∞
CALIBRATION	
Calibration Probe	ref.: 05-22-0025

Features

- Adjustable parameters: process temperature, shrinking time, etc.;
- Two independent workstations with independent parameters;
- Two different operating modes: M1 with temperature and shrinking time control; and M2 with pre-programmed references;
- The pre-programming of references can be made manually on the touchscreen or using a PC with STCS-RCT software and a USB stick;
- The selection of references can be made automatically using a barcode reader or manually on the touchscreen;
- Optional RFID system with fixture detection for automatic loading of process parameters;
- Tool fixtures with adjustable stopper to ensure the shrink tube's position;
- Optional jig pusher tool to guarantee the heat shrink tube sealing near the terminals;
- Optional anti-glue tool to protect the terminals from glue overflow;
- Easily exchangeable fixtures;
- Work area with lighting;
- Manual and automatic calibration;
- Programming mode password protected;
- External temperature probe connection for temperature reading and offset adjustment;
- Automatic cool down cycle to extend the lifetime of components;
- Working time counter and partial and total cycle counter;
- Network communication;
- Interchangeable system language, including Portuguese, English, French and Spanish (others on demand).

Options

- RFID system
  Ref: 27-37-0001

- Jig pusher system
  Ref: 27-37-0002

- Additional fixture
  Ref: 27-37-0004

1 Additional fixture w/ anti-glue tool
Ref: 27-37-0003

2 Additional fixture w/ RFID tag
Ref: 27-37-0005

1 2 Additional fixture w/ RFID tag & anti-glue tool
Ref: 27-37-0006

DATASHEET

STCS CRT

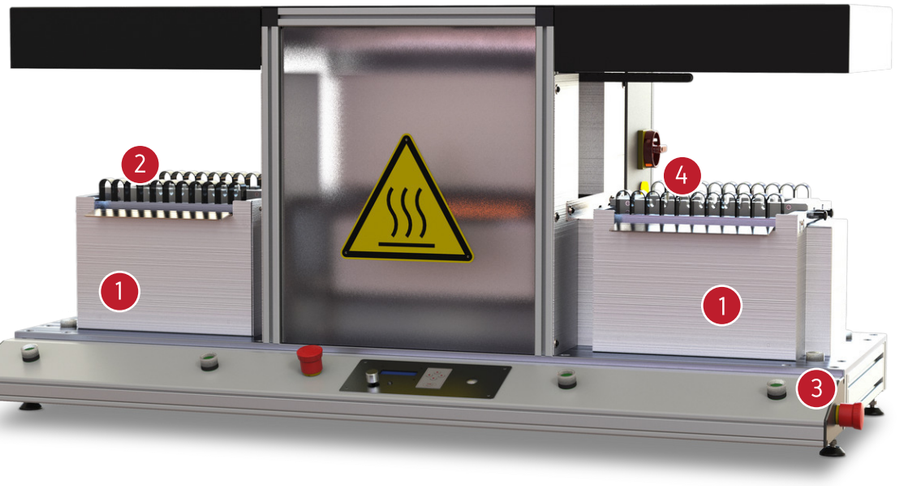
Reference of the product
14-01-0015

Technology
Infrared

> Media for this machine

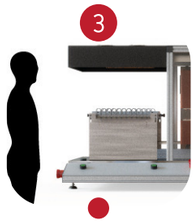
The STCS-CRT is a custom solution based on the STCS-RT standard device. It's designed for workbench applications and can process several parts at the same time.

STCS-CRT main feature is the ability to work on the middle of the cable, i.e. cables that have terminals in their middle.



Two completely independent workstations with separate parameters

Ability to work on the middle of the cable



Two additional start buttons on the side of the equipment for multiple operation layout

Easily replaceable jigs (less than 5 seconds to swap)

Technical Data

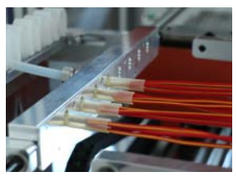
WORKING TEMPERATURE	
Min - Max [ºC] / [ºF]	400-550 / 752-1022
SHRINKING TIME	
Min - Max [s]	1-120
MEASUREMENTS	
Width; Length; Height [mm] / [in]	774; 1500; 652 / 30.5; 59; 25.7
Weight [kg] / [lbs]	140 / 308.6
POWER SUPPLY/CONSUMPTION	
Supply	230 [V] @ 50Hz
Consumption	500 [mA] to 16 [A] (Max.3600W)
PNEUMATIC	
Supply	-
Supply Pressure	-

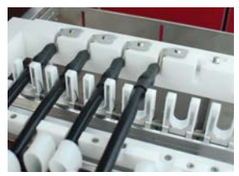
CONNECTIONS	
Barcode Reader	RS232
Temperature Sensor	Type K Thermocouple
Power Line	1 IEC C20 Socket
Programming	Membrane Keyboard
Interface	LCD 16x2, Buzzer, LED
SHRINKING CHAMBER	
Shrinking Chamber [mm] / [in]	95; 275; 50 / 3.7; 10.8; 2
Min-Max Tube Ø [mm] / [in]	0-30 / 0-1.2
Min-Max Tube Length [mm] / [in]	0-85 / 0-3.3
Min-Max Cable Ø [mm] / [in]	0-25 / 0-1
Min-Max Cable Length [mm] / [in]	-
CALIBRATION	
Calibration Probe	ref.: 05-22-0012

Features

- Adjustable parameters: process temperature, shrinking time, etc.;
- Two independent workstations with independent parameters;
- Two different operating modes: M1 with temperature and shrinking time control; and M2 with pre-programmed references, (100 in total);
- The pre-programming of references can be done manually or using a PC with STCS-RCT software;
- Automatic selection of references using a barcode reader or manually using either the rotating knob or the keyboard;
- Use of labels for each shrinking time inside a reference, to help the selection of the assembly;
- Tool fixtures with adjustable stopper to ensure the heat shrink tube's position;
- Easily replaceable jigs;
- Manual and automatic calibration;
- 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 lifetime of components;
- Working time counter and partial and total cycle counter;
- Interchangeable system language, including: Portuguese, English, French and Spanish (others on demand).

Options





- Custom jigs (pair)
  Ref: 06-01-0104

DATASHEET

STCS PHDir

Reference of the product
14-01-0034

Technology
Infrared

> Media for this machine

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

The system is made by a control module for parameter definition and a portable unit for the shrinking operation.

It's based on a touchscreen display and offers network capability.

New and improved interface based on touchscreen technology

Several new generation communication features as Ethernet, USB and WI-FI capability

Information of process parameters on the portable unit for work efficiency

Compact and lightweight portable device

Technical Data

WORKING TEMPERATURE	
Min - Max [ºC] / [ºF]	250-510 / 482-950
SHRINKING TIME	
Min - Max [s]	3-99
COOLING TIME	
Min - Max [s]	0-99
MEASUREMENTS PORTABLE DEVICE	
Width; Length; Height [mm] / [in]	216; 357; 374 / 8.5; 14.1; 14.7
Weight [kg] / [lbs]	6.9 / 15.2
MEASUREMENTS CONTROL MODULE	
Width; Length; Height [mm] / [in]	400; 367; 163 / 15.7; 14.4; 6.4
Weight [kg] / [lbs]	5.8 / 12.8
POWER SUPPLY/CONSUMPTION	
Supply	230 [V] @ 50Hz
Consumption	500 [mA] to 3 [A] (Max.700W)
CONNECTION CABLE MODULE-DEVICE	
Length [mm] / [in]	9000 / 354.3

PNEUMATIC	
Supply	Quick Hold Socket Ø8 [mm]
Supply Pressure	Min: 4bar; Max: 7bar; Rec: 6bar
CONNECTIONS	
Barcode Reader	USB
Temperature Sensor	Type K Thermocouple
Power Line	1 IEC C14 Socket
Programming	Touchscreen, Barcode Reader, External Device
Interface	Touchscreen, LCD 8x2, Buzzer and LED
SHRINKING CHAMBER	
Shrinking Chamber [mm] / [in]	74; Ø34 / 2.9; Ø1.3
Min-Max Tube Ø [mm] / [in]	0-14 / 0-0.6
Min-Max Tube Length [mm] / [in]	0-65 / 0-2.6
Min-Max Cable Ø [mm] / [in]	0-14 / 0-0.6
Min-Max Cable Length [mm] / [in]	140-∞ / 5.5-∞
CALIBRATION	
Calibration Probe	ref.: 26-28-0001

Features

- Adjustable parameters: process temperature, shrinking time, etc.;
- Two different operating modes: M1 with temperature and shrinking time control; and M2 with pre-programmed references (999 in total);
- The pre-programming of references can be done manually, using a PC with STCS-RCT software or using a USB stick;
- The selection of references can be done automatically using a barcode reader or manually on the touchscreen;
- Easy firmware upgrade using a USB stick;
- Cooling system;
- Manual and automatic calibration;
- Programming mode password protected;
- Equipped with the external temperature probe connection for temperature reading and offset adjustment;
- Automatic cool down cycle to extend the lifetime of components;
- Working time counter and partial and total cycle counter;
- Communication with ultrasonic welding machines;
- Network communication;
- Interchangeable system language including: English, Portuguese, French and Spanish (others on demand).

Options

- End splice tool
  Ref: 27-26-0003

- Vacuum support system
  Ref: 27-26-0001

- Blade support system
  Ref: 27-26-0002

- Workbench
  Ref: 27-26-0005
- Ring terminal tool
  Ref: 27-26-0004

HOT AIR TECHNOLOGY

HEAT SHRINK SYSTEMS

DATASHEET

STCS B

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

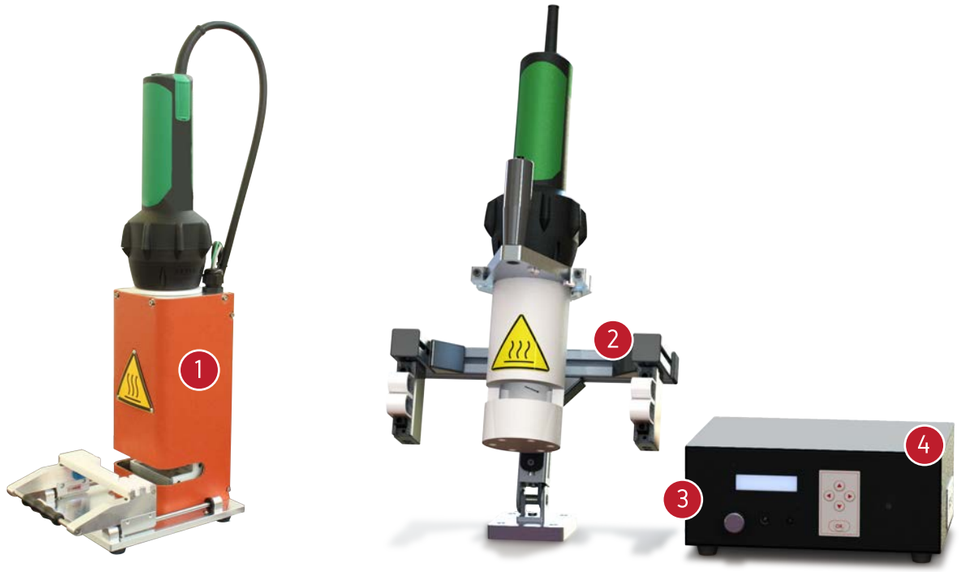
The system is made by a control module for parameter´s definition and a hot air tool for the shrinking operation.

It is supplied with a standard shrinking chamber of 15x50mm, which can be customized.

Reference of the product
14-01-0003

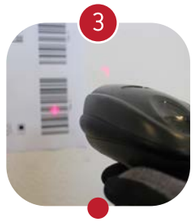
Technology
Hot Air

> Media for this machine



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

Can be supplied with customized clamps with automatic holding system and/or cooling system



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

Lightweight control module, low cost, simple and low maintenance solution for heat shrink applications that require the control of parameters

Technical Data

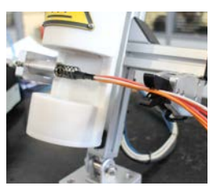
WORKING TEMPERATURE	
Min - Max [ºC] / [ºF]	150-350 / 302-662
SHRINKING TIME	
Function Mode M1 Min - Max [s]	1-999
Function Mode M2 Min - Max [s]	1-99
MEASUREMENTS HEATING DEVICE	
Width; Length; Height [mm] / [in]	286; 225; 553 / 11.3; 9; 21.8
Weight [kg] / [lbs]	3.2 / 7.1
MEASUREMENTS CONTROL MODULE	
Width; Length; Height [mm] / [in]	252; 205; 112 / 10; 8; 4.4
Weight [kg] / [lbs]	2.6 / 5.7
POWER SUPPLY/CONSUMPTION	
Supply	230 [V] @ 50Hz
Consumption	50 [mA] to 15 [A] (Max.3400W)

PNEUMATIC	
Supply	-
Consumption	-
CONNECTIONS	
Barcode Reader	RS232
Temperature Sensor	Type K Thermocouple
Power Line	1 IEC C20 Socket
Programming	Membrane Keyboard
Interface	LCD 16x2, Buzzer and LED
SHRINKING CHAMBER	
Shrinking Chamber [mm] / [in]	50; Ø20 / 2; Ø0.8
Min-Max Tube Ø [mm] / [in]	0-20 / 0-0.8
Min-Max Tube Length [mm] / [in]	0-50 / 0-2
Min-Max Cable Ø [mm] / [in]	0-15 / 0-0.6
Min-Max Cable Length [mm] / [in]	140-∞ / 5.5-∞
CALIBRATION	
Calibration Probe	ref.: 05-22-0011

Features

- Adjustable parameters: process temperature, shrinking time, etc.;
- Two different operating modes: M1 with temperature and time control; and M2 with pre-programmed references;
- Additional mode with references usage (group of shrinking in sequence - 100 in total);
- The pre-programming of references can be done manually or using a PC with STCS-RCT software;
- 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 calibration;
- Programming mode password protected;
- Cycle counter;
- Interchangeable system language, including: Portuguese, English, French and Spanish (others on demand).

Options



- End splice tool
  Ref: 27-01-0002

- Custom shrinking chamber
  Ref: 26-01-0001

- Cooling system
  Ref: 06-01-0137

DATASHEET

STCS PHD

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.

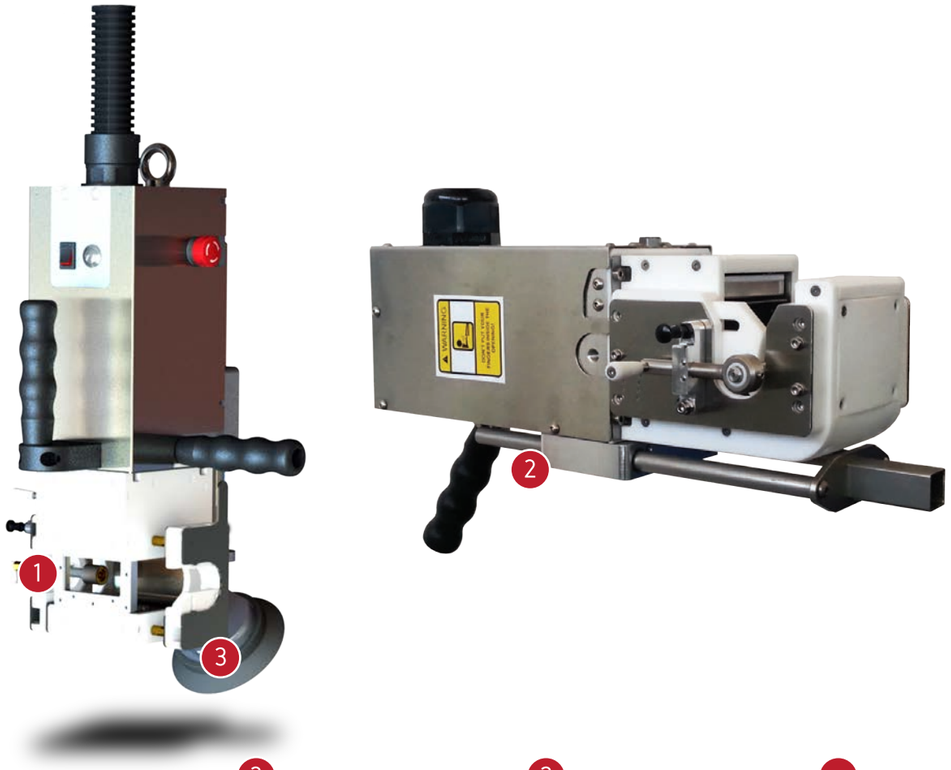
The system is made by a control module for parameter definition and a hot air device for the shrinking operation.

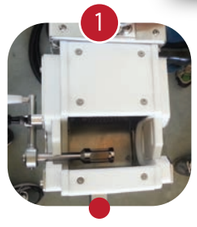
It has several working configurations to easily accommodate all panel applications.

Reference of the product
14-01-0005

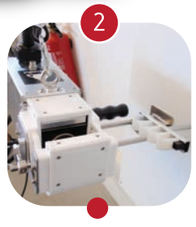
Technology
Hot Air

> Media for this machine





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



Can work vertically, horizontally, in parallel or perpendicular towards the line panel

Panel fixation using a suction vacuum pump or a blade system

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

Technical Data

WORKING TEMPERATURE	
Min - Max [ºC] / [ºF]	150-350 / 302-662
SHRINKING TIME	
Min - Max [s]	1-99
MEASUREMENTS HEATING DEVICE	
Width; Length; Height [mm] / [in]	240; 440; 270 / 9.4; 17.3; 11
Weight [kg] / [lbs]	9 / 20
MEASUREMENTS CONTROL MODULE	
Width; Length; Height [mm] / [in]	324; 277; 172 13; 11; 7
Weight [kg] / [lbs]	6 / 14
POWER SUPPLY/CONSUMPTION	
Supply	230 [V] @ 50Hz
Consumption	50 [mA] to 15 [A] (Max.3400W)

PNEUMATIC	
Supply	Quick Hold Socket Ø10 [mm]
Supply Pressure	Min: 5bar; Max: 7bar
CONNECTIONS	
Barcode Reader	RS232
Temperature Sensor	Type K Thermocouple
Power Line	1 IEC C20 Socket
Programming	Membrane Keyboard
Interface	LCD 16x2, Buzzer and LED
SHRINKING CHAMBER	
Shrinking Chamber [mm] / [in]	65; Ø27 / 2.6; Ø1.1
Min-Max Tube Ø [mm] / [in]	0-30 / 0-1.2
Min-Max Tube Length [mm] / [in]	0-65 / 0-3
Min-Max Cable Ø [mm] / [in]	0-25 / 0-1
Min-Max Cable Length [mm] / [in]	170-∞ / 6.7-∞
CALIBRATION	
Calibration Probe	ref.: 26-06-0003

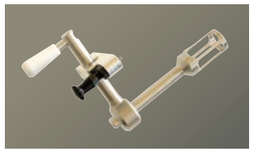
Features

- Adjustable parameters: process temperature, shrinking time, etc.;
- Several working configurations to accommodate all panel´s applications;
- Two different operating modes: M1 with temperature and shrinking time control; and M2 with pre-programmed references (each reference can have from 1 to 20 shrinking times);
- Built-in cooling system;
- The pre-programming of references can be done manually or using a PC with STCS-RCT software;
- Manual and automatic calibration;
- 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;
- Programming and maintenance mode password protected;
- Special maintenance mode for hardware debug;
- Cycle counter;
- Air fault detection;
- Interchangeable system language, including: Portuguese, English, French and Spanish (others on demand).

Options

- Vacuum support system
  Ref: 06-01-0063

- Blade support system
  Ref: 06-01-0064



- End splice tool
  Ref: 27-03-0001

TEST SYSTEMS

TEST SOLUTIONS

DATASHEET

STCS BLT

The STCS-BLT is a manually operated pneumatic device, intended to be used as a convenient “in-process” sampling technique testing sealed splices.

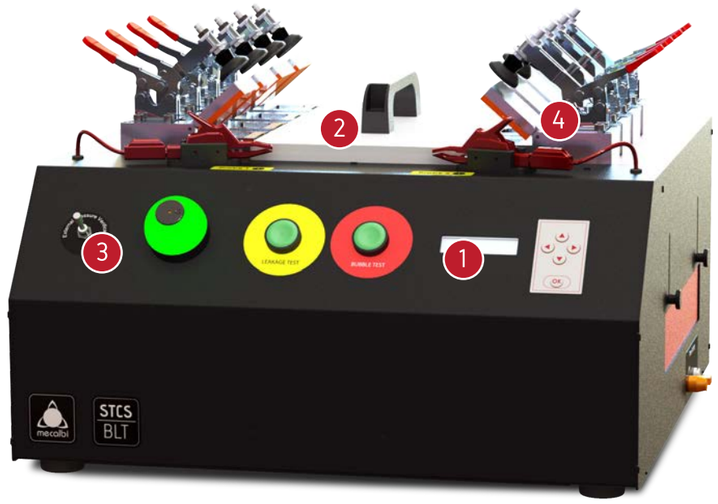
It has a built-in current leakage detection system that detects splice’s insulation resistance.

It can be supplied with special test chambers for big cross-section cables.

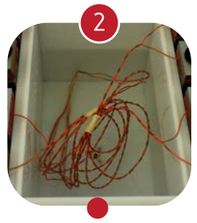
Reference of the product
14-03-0006

Technology
Test System

> Media for this machine



Real time automatic pressure test adjustment without the need of manual regulation



Built-in current leakage detection system, that measures the electrical resistance of the splice

External pressure test verification

Option of using special chambers, mechanically compatible with normal chambers, to test big cross-section cables

Technical Data

PROCESS PRESSURE	
Min - Max [bar] / [psi]	0.1-2 / 1.5-30
PROCESS TIME	
Min - Max [s]	1-999
MEASUREMENTS	
Width; Length; Height [mm] / [in]	561; 525; 345 / 22.1; 20.7; 13.6
Weight [kg] / [lbs]	30 / 66.1
POWER SUPPLY/CONSUMPTION	
Supply	24 VDC
Consumption	50 [mA] to 1 [A] (Max.24W)
PNEUMATIC	
Supply	Quick Hold Socket Ø8 [mm]
Supply Pressure	Min: 5bar; Max: 7bar; Rec: 6bar

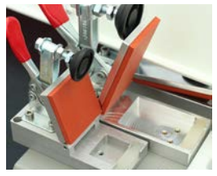
CONNECTIONS	
Barcode Reader	-
Temperature Sensor	-
Power Line	1 DC Socket 2 [mm]
Programming	Membrane Keyboard
Interface	Membrane Keyboard, LCD 16x2, Buzzer, LED
CHAMBER	
Chamber [mm] / [in]	30; 40; 10 / 1.2; 1.6; 0.4
Min-Max Tube Ø [mm] / [in]	-
Min-Max Tube Length [mm] / [in]	-
Min-Max Cable Ø [mm] / [in]	0-6.5 / 0-0.3
Min-Max Cable Length [mm] / [in]	-
CALIBRATION	
Calibration Probe	-

Features

- Automatic air pressure adjustment;
- Selection of which chambers receive test pressure, for air economy;
- Configurable test time and test pressure;
- Built-in detection system to detect insulation defects either by current leakage or insulation resistance;
- Programable leakage failure threshold (insulation and resistance);
- Insulation resistance failure programable between 1kΩ and 10GΩ;
- Current leakage failure programable between 1nA and 999µA;
- Bubble and leakage test counter;
- Manual internal pneumatic calibration;
- Password protected menu;
- Error lock (password protected);
- Pneumatic inlet failure detection;
- Minimal skills required for operating with the machine;
- Special chambers for big cross-section cables;
- Interchangeable system language, including: English, Portuguese, French and Spanish (others on demand).

Options

- Special test chamber (>Ø6.5)
  Ref: 06-01-0127



- Special test chamber for terminals
  Ref: 06-01-0297

DATASHEET

STCS BLTTS

Reference of the product
14-03-0010

Technology
Test System

> Media for this machine

The STCS-BLTTS is a test equipment to check sealed splices.

Based on touchscreen technology, it can perform two independent tests: bubble test, to check if the splice is waterproof; and leakage test, to measure the splice's insulation resistance or current.

It's designed to be connected to external printers to instantaneously get the test result and can also be configured with custom test chambers to check big cross-section cables.

Real time automatic pressure test adjustment without the need of manual regulation

Insulation test by checking either current or insulation resistance

Several new generation communication features as Ethernet, USB and HDMI

External printer connection for test results printing

Technical Data

PROCESS PRESSURE	
Min - Max [bar] / [psi]	0.1-2 / 1.5-30
PROCESS TIME	
Min - Max [s]	1-999
MEASUREMENTS	
Width; Length; Height [mm] / [in]	600; 557; 370 / 26; 21.9; 14.6
Weight [kg] / [lbs]	30 / 66.1
POWER SUPPLY/CONSUMPTION	
Supply	24 VDC
Consumption	50 [mA] to 1 [A] (Max.24W)
PNEUMATIC	
Supply	Quick Hold Socket Ø8 [mm]
Supply Pressure	Min: 5bar; Max: 7bar; Rec: 6bar

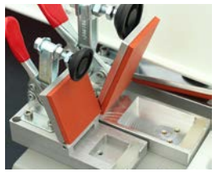
CONNECTIONS	
Barcode Reader	USB
Temperature Sensor	-
Power Line	1 DC Socket 2.5 [mm]
Programming	Touchscreen
Interface	Touchscreen, Buzzer and LED
CHAMBER	
Chamber [mm] / [in]	30; 40; 10 / 1.2; 1.6; 0.4
Min-Max Tube Ø [mm] / [in]	-
Min-Max Tube Length [mm] / [in]	-
Min-Max Cable Ø [mm] / [in]	0-6.5 / 0-0.3
Min-Max Cable Length [mm] / [in]	-
CALIBRATION	
Calibration Probe	-

Features

- Adjustable test parameters: test time, test pressure, test resistance failure and test current failure
- Two different operating modes: M1 with time, pressure and resistance control; and M2 with pre-programmed references (999 in total);
- The selection of references can be done automatically using a barcode reader or manually on the touchscreen;
- Selection of which chambers receive test pressure, for air economy;
- Built-in detection system to detect insulation defects either by current leakage or insulation resistance;
- Insulation resistance failure programable between 1kΩ and 10GΩ;
- Current leakage failure programable between 1nA and 999µA;
- Manual internal pneumatic calibration;
- Error lock (password protected);
- User login to save individual working data, like user ID, time and test result;
- Download of test parameters by USB or Ethernet;
- Interchangeable unit of pneumatic pressure: bar and PSI;
- Working time counter and partial and total cycle counter;
- Interchangeable system language including: English, Portuguese, French and Spanish (others on demand).

Options

- Special test chamber (>Ø6.5)
  Ref: 06-01-0127



- Special test chamber for terminals
  Ref: 06-01-0297

DATASHEET

STCS DVBLT

Reference of the product
14-03-0037

Technology
Test System

> Media for this machine

The STCS-DVBLT is a test equipment to check sealed splices.

Based on touchscreen technology, it can perform four independent tests: bubble test, to check if the splice is waterproof; leakage test, to measure the splice's insulation resistance or current and vacuum and pressure drop test to check if the splice is watertight.

It's designed to be connected to external printers to instantaneously get the test result and can also be configured with custom test chambers to check big cross-section cables.

1

Real time automatic pressure test adjustment without the need of manual regulation

2

Insulation test by checking either current or insulation resistance

3

Fast interchangeable and custom fixture system

4

External printer connection for printing test results

Technical Data

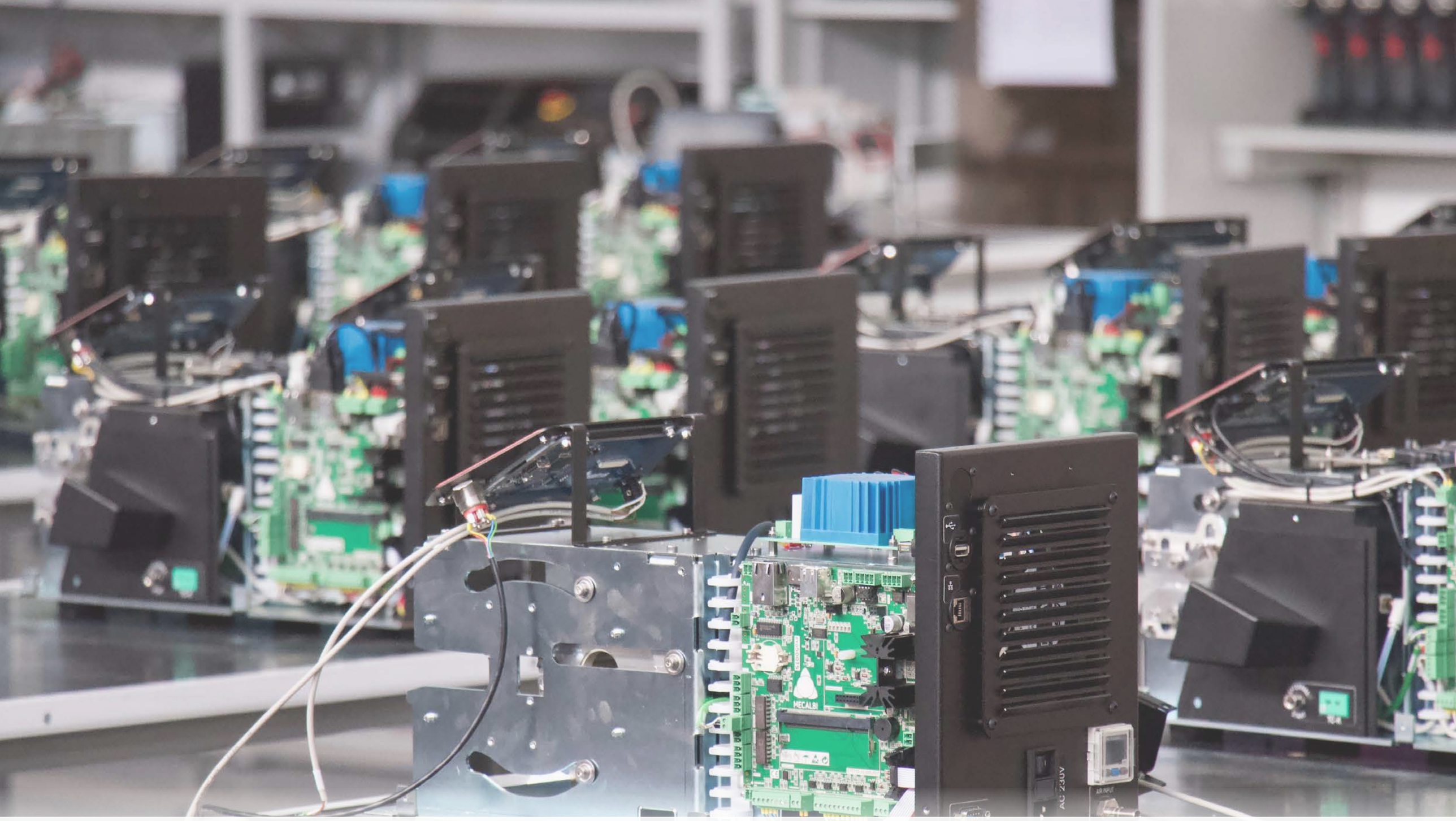
PROCESS PRESSURE	
Leakage Test Min - Max [bar] / [psi]	0.1-2 / 1.5-29
Bubble Test Min - Max [bar] / [psi]	0.1-1 / 1.5-14.5
Vaccum Test Min - Max [bar] / [psi]	-0.6-(-0.3) / -8.7-(-4.4)
Pres. Drop Test Min - Max [bar] / [psi]	0.1-1 / 1.5-14.5
PROCESS TIME	
Leakage Test Min - Max [s]	1-7200
Bubble Test Min - Max [s]	1-120
Vaccum Test Min - Max [s]	1-120
Pres. Drop Test Min - Max [s]	1-120
MEASUREMENTS	
Width; Length; Height [mm] / [in]	622; 1577; 1415 / 24.5; 62.1; 55.7
Weight [kg] / [lbs]	196 / 432.1
ELECTRIC TANK DIMENSIONS	
LxWxH [mm] / [in]	300x200x212 / 11,8x7,9x8,3
PRESSURE TANK DIMENSIONS	
LxWxH [mm] / [in]	297x397x410 / 11,7x15,6x16,1
POWER SUPPLY/CONSUMPTION	
Supply	230 [V] @ 50Hz
Consumption	500 [mA] to 2 [A] (Max.500W)
PNEUMATIC	
Supply	Quick Hold Socket Ø10 [mm]
Supply Pressure	Min: 4bar; Max: 6bar
CONNECTIONS	
Barcode Reader	USB
Power Line	1 IEC C13 Socket
Programming	Touchscreen, External Device
Interface	Touchscreen, Buzzer and LED
PRODUCT CHARACTERISTICS	
Min-Max Tube Ø [mm] / [in]	On demand
Min-Max Tube Length [mm] / [in]	-
Min-Max Cable Ø [mm] / [in]	0.5-8.1 / 0.02-0.31
Min-Max Cable Length [mm] / [in]	-

Features

- Adjustable test parameters: test time, test pressure, test current failure and vaccum test and pressure drop;
- Two different operating modes: M1 with time, pressure and resistance control; and M2 with pre-programmed references (999 in total);
- The selection of references can be done automatically using a barcode reader or manually on the touchscreen;
- Selection of which chambers receive test pressure, for air economy;
- Built-in detection system to detect insulation defects by current leakage;
- Current leakage failure programable between 1mA and 100µA (performs testes in 14V / 5µA and 50V / 0,025µA);
- Bubble test adjustable up to 1bar;
- Vaccum test adjustable up to -0,3bar;
- Pressure Drop test adjustable up to 1bar;
- User login to save individual working data, time and test result;
- Download of test parameters by USB or Ethernet;
- Pneumatic inlet failure detection;
- Interchangeable unit of pneumatic pressure: bar, Psi and Kpa;
- Working time counter and partial and total cycle counter;
- Interchangeable system language including: Portuguese, English, French and Spanish (others on demand).

Options

- Special test chamber



Innovation and Development
New equipment on the market year after year.

Range of Products
Wide range of retraction products adapted to all kinds of needs.

Competitive Prices

Lead Times
Four to six weeks for type A equipment and two to four weeks for spare parts.

Service
Follow-up of customers and requests during and after the purchase process.

Technology
State-of-the-art technological solutions.