

- ✓ *Technical Re-Design 2018*
- ✓ *Component monitoring*
- ✓ *Board detection*
- ✓ *Up to 80% energy saving*



Reflow Soldering Systems

551.10 and 551.15

Solderweld Produktion for the brand

SEF

Technical description

The reflow soldering systems **551.10** and **551.15** are developments made by SEF and combine the competence of over 30 years experience with modern requirements concerning ease of use, powerful PLC system control or interfaces for communication with other devices.

The soldering system **551.10** has a heating chamber with eight heating zones, four each at the top and bottom. With the help of hot air fans, the heating zones release convective heat. The upper part of the heating chamber also contains a cooling zone and one exhaust hood each in the inlet and outlet areas.

The soldering system is operated simply and intuitively via a modern 7" touch panel.

The transport of the PCB follows via mesh belt transfer or *optionally via pin chain transfer. The usable working width is 405 mm.

To control the soldering profile on the circuit board, a single-channel temperature profiler is integrated in the soldering oven. A corresponding thermocouple is included.



For the soldering system **551.15**, the cooling zone is replaced by another heating zone, so that the oven, with five heating zones at the top and five at the bottom, has a total of ten heating zones. Cooling takes place via external fans in the outlet area of the machine.

The system variants **551.10** und **551.15** include

- **Base cabinet**, height-adjustable storage space with 2 doors
- Lamp pole for displaying the system status
- Power Save Package with
 - Single board recognition and
 - Power Down Mode: The system changes to standby mode with reduced heating power. When recognizing a board at the inlet, the conveyor stops, the oven is heating up to soldering temperature and then starts the conveyor again.
 - Communication Package consisting of SMEMA interface, PC interface, WLAN interface

Options:

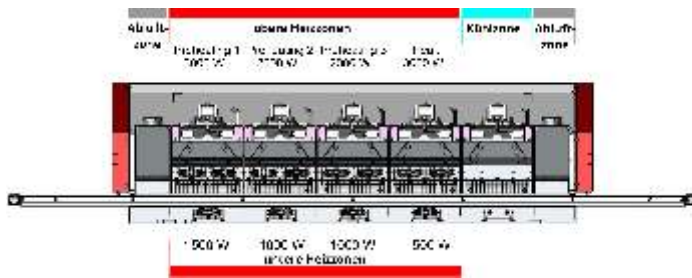
- Pin chain transfer instead of the mesh belt transfer

Accessories:

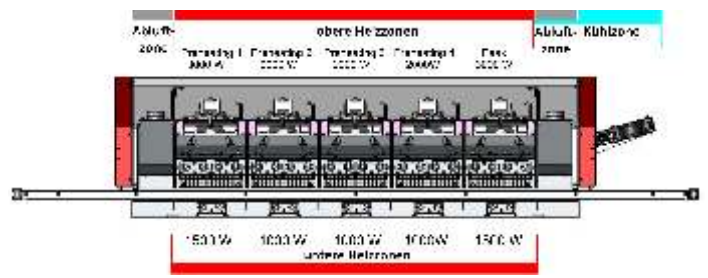
- Exhaust box in case you do not have an in-house exhaustion system
- External temperature profiler set 570.80A consisting of a Mesy® USB Mesy with 3 input channels for storage operation 570.77A and a thermo insulating box 571.77

Technical description

Functional structure 551.10



Functional structure 551.15



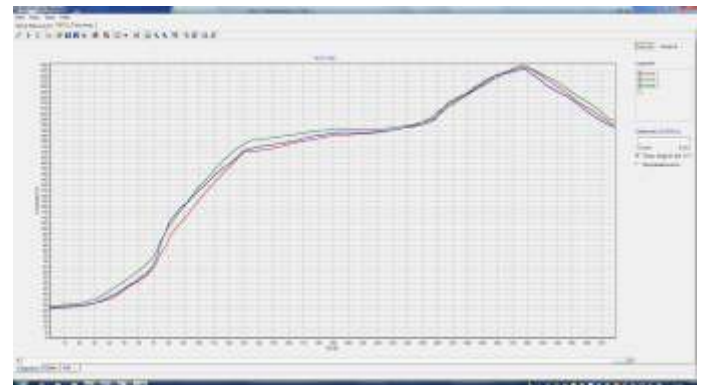
User interface, menu samples



Technical data 551.10 and 551.15

Length	2010 mm
Width	790 mm
Height	550 mm
- - incl. lamp pole	710 mm
Weight	190 kg
Usable working width	
- - mesh belt transfer	405 mm
- - pin chain transfer	35-400 mm
Active heating chamber length	850 mm
Inlet height	45 mm
Conveyor speed	15 cm/min - 90 cm/min
- - typical	20 cm/min
Heating power	max. 12 kW
Connection values	3 x 230/400 VAC/N/PE 50 Hz with 16 A CEECON connector
Operation	7" touch panel

Typical soldering profile 551.10





Ready for Industry 4.0

- ✓ Automatical monitoring of:
 - ✓ all exhausters
 - ✓ all heating elements
 - ✓ conveyor motor
- ✓ Status message via LAN and WLAN
- ✓ Remote control via smartphone or tablet
- ✓ USB connection

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