

The compact wave soldering system



Professional production of small and medium scale series

For professionally producing small and medium scale series Ersa has developed the ETS 250 enabling both the processing of SMD and mixed assemblies. Simple operation as well as low initial costs and operating expenses make the ETS 250 an extremely economical investment which will pay off in no time.

All components are perfectly suited for the processing of low solid fluxes. The flux system is made entirely of stainless steel. A high-quality foam tube guarantees a superior and uniform formation of fine pored foam. An additional blow-off feature prevents drops and provides uniform flux wetting.

Controlled and infinitely variable temperature values allow an individual adaption of the preheating. Pre-determined limit temperature values can be entered into the control. If these values are exceeded, a message will automatically appear on the clear text display.

The service-friendly stainless steel solder module is available as single wave or SMD version with double wave, whereas the SMD wave can be retrofitted. Being speed-controlled the solder pumps guarantee reproducibility as well as a very consistent wave.

The user-friendly and versatile microprocessor control offers the conveniences of a large-scale system. The status of all aggregates such as preheating temperature, wave speed, solder temperature etc. are displayed as clear text. Set and actual values can be easily entered and read. Therefore comfortable operation is provided as well as fast modification of the parameters. Tolerance windows are freely programmable for all important parameters, thus optimum process reliability is achieved. By utilizing the integrated 7-day time clock the amount of operation is reduced to a minimum.

The optional printer interface allows documentation of the process parameters according to ISO 9000 standards.

Features Ersa ETS 250

	● Standard	○ Option
Floor stand, bench type	○	●
Foam fluxer for low solid flux	●	○
Constant level foam fluxer	○	●
Blow-off feature	●	○
Maintenance unit for compressed air	●	○
Medium wave pre-heater	●	○
Double wave soldering module	●	●
Presolder nozzle for SMD assemblies	○	●
Final solder nozzle	●	●
Manual conveyor angle adjustment	●	●
Intervall operation	○	●
Machine status control (indication light)	○	○
7-day time clock	○	●
Exhaust monitoring	○	○
Emergency stop button	○	○
Printer interface	○	○
Microprocessor control	○	●
Infeed and outfeed extension	○	●
Frame conveyor	○	●
1 solder frame with 2 side bars	○	●



ERSA product range

Soldering tools

- NEW DIMENSION
- PROFI-LINE
- IR-Rework
- CLEAN-AIR

Soldering systems

Wave soldering

- ETS-line

- EWS-line
- N-Wave-line

Reflow soldering

- Hotflow 3
- Hotflow 5
- Hotflow 7
- Hotflow 9
- Hotflow 11
- HOTFLOW 2 line
- ERS 250
- ERS 260

Selective soldering

- VERSAFLOW
- VERSAFLOW line
 - Highspeed
 - Multiwave
 - Compact
- Place & Solder
- EAS-line

Process optimization

- EPOS 1

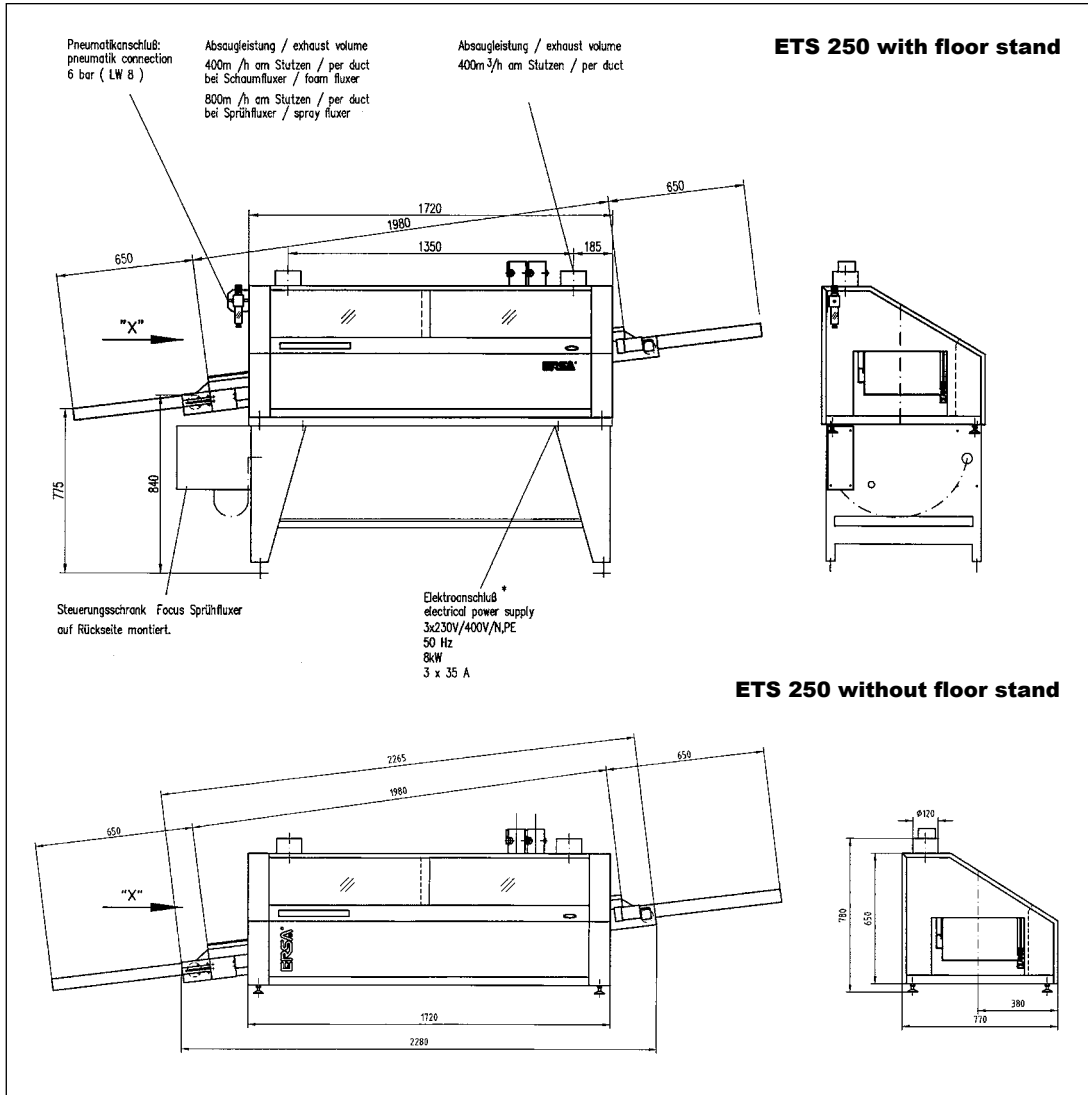
Inspection systems

- ERSASCOPE
- ImageDoc Software

Other services

- Know-how seminars
- In-House trainings
- Test soldering
- Installation and maintenance assistance
- Process support

The compact wave soldering system

**Working width:**

250 mm (10")

Dimensions:

Length:

floor stand: 1,720 mm (67.7")
 conveyor system: 1,980 mm (78")
 infeed extension: 750 mm (29.5")
 outfeed extension: 750 mm (29.5")

Width: 770 mm (30.3")

Height:

without floor stand: 730 mm (28.7")
 with floor stand: 1,430 mm (56")
 Weight: approx. 250 kg (551 lb) (without solder)

Paint:

RAL 7035 / RAL 7016

Conveyor system:

Type: chain conveyor
 Conveyor angle: 4-7° manually adjustable in steps of 0.5°
 Conveyor speed: 0.3 - 2.5 m/min (1 - 8 ft/min)

Flux module:

Type: foam fluxer
 Flux storage tank: 2 l

Solder module:

Type: double wave solder module
 Solder volume: approx. 120 kg (264.5 lb) solder
 Solder alloy: Sn64Pb36
 Warm-up time: approx. 2 h

Preheating length: 800 mm (31.5")**Exhaust rating:**

Exhaust volume: approx. 400 m³/h (235 CFM)
 Exhaust stack: 2 x 120 mm (4.7") ø

Electrical data:

Power: 5-wire-system, 3 x 230/400 V, N, PE
 according to DIN IEC 38
 Frequency: 50 or 60 Hz
 Nominal rating: 8 kW
 Max. fuse rating: 3 x 50 A (slow blow)
 Rated current: 6 A

Control:

Microprocessor
 Clear text display
 Parameter monitoring
 Intervall operation
 7-day time clock

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