Ersa HOTFLOW 4/26

秋 kurtz ersa

High-end reflow soldering system with outstanding thermal performance and best energy balance



Highest throughput, optimized $N_{\rm 2}$ and energy balance, best process control and maximum machine uptimes.

The new HOTFLOW 4 series of systems has been augmented by the Ersa HOTFLOW 4/26. This system, with a process length of more than 7 meters split into 26 heating zones and 4 cooling zones and characterized by its high energy efficiency, provides a vastly increased throughput while maintaining the customary high process- and soldering quality.

The reduction of operating cost is based on the use of economical and efficient fan motors, which reduce the consumption of power, and on the

Unique Technology Advantages:

- Dual and triple track transport increases throughput
- Optimized heat transfer, minimized Delta T, zone separation & temperature controlled cooling
- Switchable internal/external cooling unit
- 100% tested process tunnel (gas sealed)
- Lowest energy and N₂ consumption
- New process control software
- Best machine uptime
- Heating modules retractable without any tools
- Energy efficient blower motors
- Ultra Low-Mass Center Support
- GRIP transport

superior control of the $N_{\rm 2}$ system, which reduces the consumption of $N_{\rm 2}$ by 20%. All in all, total energy saving is in the range of 25%.

From a productivity versus floor space requirement standpoint, the HOTFLOW sets the industry standard. With dual or triple track options, it is possible to increase throughput considerably without increasing floor space! Tracks run at their own set speed and at their own PCB width for maximum flexibility.

It is now possible to run as many as three different products simultaneously at three different set speeds and widths. Only highest quality materials have been used in order to guarantee the highest machine availability. Finally, all major parts are exchangeable within only minutes in order to keep machine downtime to an absolute minimum.

Software-Highlights

- New process control software (EPC)
- ERSASOFT process data recorder
- ERSASOFT user friendly machine control
- AUTOPROFILER for rapid offline profiling
- Standby & sleep mode
- Job management

Features Ersa HOTFLOW 4/26

Bottom-side preheating, 9 convection modules	
Cooling step 2 with 4 convection modules top and bottom, controlled cooling zone 1	
Adjustable fan speed in soldering & cooling zones	
Adjustable fan speed in preheating zones	
Nitrogen equipment	
Residual oxygen monitoring	
Nitrogen consumption measurement	
Intelligent N ₂ control	
3 oxygen measuring points	
Residue Terminator	
Pyrometer	
Cooling aggregate	
Outfeed cooling	
Bottom-side motor cooling	
Temperature monitoring of the cooling zone	
Cooling step 1, basic cooling top and bottom	
External cold water supply	
GRIP transport	
Low-mass conveyor, 560 mm	
Low-mass track conveyor 1 to 3	
Adjustable speed for each track conveyor	
Low-mass support tubes, 540 mm/21" width	
Low-mass center support 1 to 3 with uninterrupted rest	
Program controlled width adjustment for conveyors and center support	
Automatic chain lubrication	
PC with TFT screen	
TFT touch screen	
Status indication light	
Emergency power supply (transport, hood, SPS, PC)	
Online servicing	
Temperature measurement device (SENSOR SHUTTLE)	
Ersa process control (EPC)	
AUTOPROFILER	
Energy measurement	
Energy consumption calculation	
Quick profile change	

standard 🔳 / option 🗆



thin PCB or flexfoils

Multi track conveyor for variable PCB width



Efficient cooling in outfeed

section

Retractable nozzle sheets for

auick maintenance



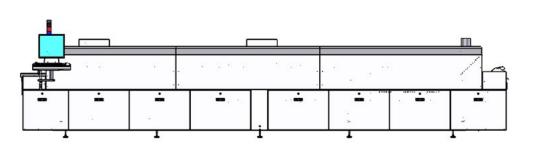
Optimized access to maintenance units

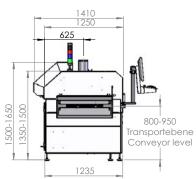


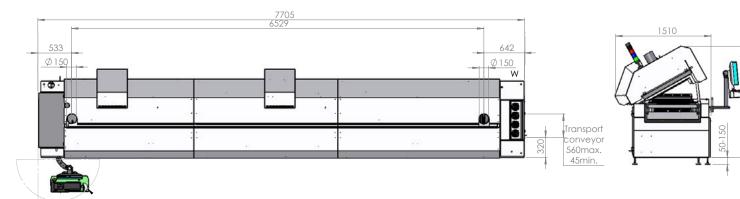
Ersa AUTOPROFILER: Easy offline profiling for highest machine uptimes.

Ersa HOTFLOW 4/26

High-end reflow soldering system with outstanding thermal performance and best energy balance







7,705 mm
1,410 mm
1,350 – 1,500 mm
1,670 – 1,820 mm
approx. 2,800 kg
RAL 7035/7016

Conveyor system:	
Working width:	45 – 560 mm
Working width (PCB center supp	ort): 45 – 560 mm
Board clearance (standard):	+32/-40 mm
Center support pin height:	19 mm
Conveyor speed:	20 – 200 cm/min
Conveyor height from floor: 820 – 980 mm	
Pin-and-chain conveyor:	3 mm edge clearance option: 4 mm, 5 mm,

Process zone:	
Process length:	7,115 mm
Heating zone:	5,000 mm
Cooling zone:	2,115 mm
Infeed zone:	620 mm
Process chamber width:	approx. 745 mm

Heating system:	
Convection share:	100 %
Gas flow/module:	approx. 500 m³/h (17,657 ft³/h), adjustable
Convection modules::	13 top/13 bottom
Preheating::	9 top/9 bottom
Soldering zone:	4 top/4 bottom
Nominal rating per mo	odule: 3,3 kW

Cooling:		
Cooling zone:	4-stage version and water recooling	
Coolant:	water/R134A (option)/air	
Ambient tempera	ature: max. 32°C (90°F)	

Nitrogen option:	
Gas injection:	in process zones
Pressure control:	4,5 – 10 bar

Safety devices:
1 x Main switch
2 x Emergency-Stop buttons
2 x Exhaust monitors

Electrical data:	
Power:	5-wire-system, 3 x 400 V, N, PE
Power tolerance range:	±10 %
Frequency:	50/60 Hz
Max. fuse rating:	3 x 100 A
Nominal rating: (subject to configuration	83 kW – 102 kW
Reduced rating:	55 kW
Continuous rating for op	eration ca. 12 – 19 KW

Exhaust rating:		
Exhaust stacks:	2 stacks, 15	0 mm (6") ø each
Exhaust volume per stack:		600 m ³ /h
Exhaust monitoring per stack:		integrated

Noise level:	
Permanent noise level:	< 65 dB (A)

Ersa GmbH Leonhard-Karl-Str. 24 97877 Wertheim Germany

Tel. +49 9342 800-0 Fax +49 9342 800-127 info@ersa.de www.ersa.com

France info-efr@kurtzersa.com

America info-ena@kurtzersa.com Mexico

China info-eap@kurtzersa.com

Visit www.ersa.com for further information!

info-kmx@kurtzersa.com

285 651 - 02/2018 | subject to change | © Ersa GmbH