Ersa HOTFLOW 4/8

kurtz ersa

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

Highest throughput, optimized N2 and energy balance, best process control and maximum machine uptimes.

The HOTFLOW 4/8 is the shortest reflow system in the new HOTFLOW 4 series. This system, with a process length of 3,25 meters split into 8 heating zones and 1 cooling zone 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 superior control of the N_2 system, which reduces the consumption of N_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 4 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.

Unique Technology Advantages:

- Dual, triple track transport increases throughput
- Energy efficient fan motors
- Optimized heat transfer, minimized Delta T, zone separation & temperature controlled cooling
- 100 % tested process tunnel (gas sealed)
- Lowest energy and N_2 consumption
- New process control software
- Best machine uptime
- Without any tool retractable heating modules
- Ultra low-mass center support
- GRIP transport

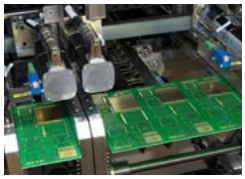
Software-Highlights:

- New process control software (EPC)
- Ersasoft – process data recorder
- Ersasoft – user friendly machine control
- Auto Profiler for rapid offline profiling
- Standby & sleep mode
- Job management

Features Ersa HOTFLOW 4/8	
Bottom-side preheating, 3 convection modules	■
Adjustable fan speed in cooling and soldering zones	■
Adjustable fan speed in preheating zones	□
Pyrometer	□
Nitrogen equipment	□
Residual oxygen monitoring	□
Nitrogen consumption measurement	□
Intelligent N_2 control with 3 measuring points	□
Temperature monitoring of the cooling zone	■
Air cooling	□
Cooling step 1, Basic cooling top and bottom	■
Cooling step 2 with 3 convection modules top/bottom, controlled cooling zone	□
External cold water supply	□
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	□
GRIP transport	□
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)	□
Temperature measurement device (Sensor Shuttle)	□
Ersa process control (EPC)	□
Online servicing	□
Auto Profiler	□
Energy measurement	□
Energy consumption calculation	■

standard ■ / option □

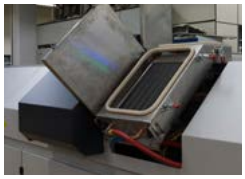
Grip conveyor for extremely thin PCB or flexfoils



Multi track conveyor for variable PCB width

Efficient cooling in outfeed section

Retractable nozzle sheets for quick maintenance



Optimized access to maintenance units

Ersa Autoprofiler: Easy offline profiling for highest machine uptimes.

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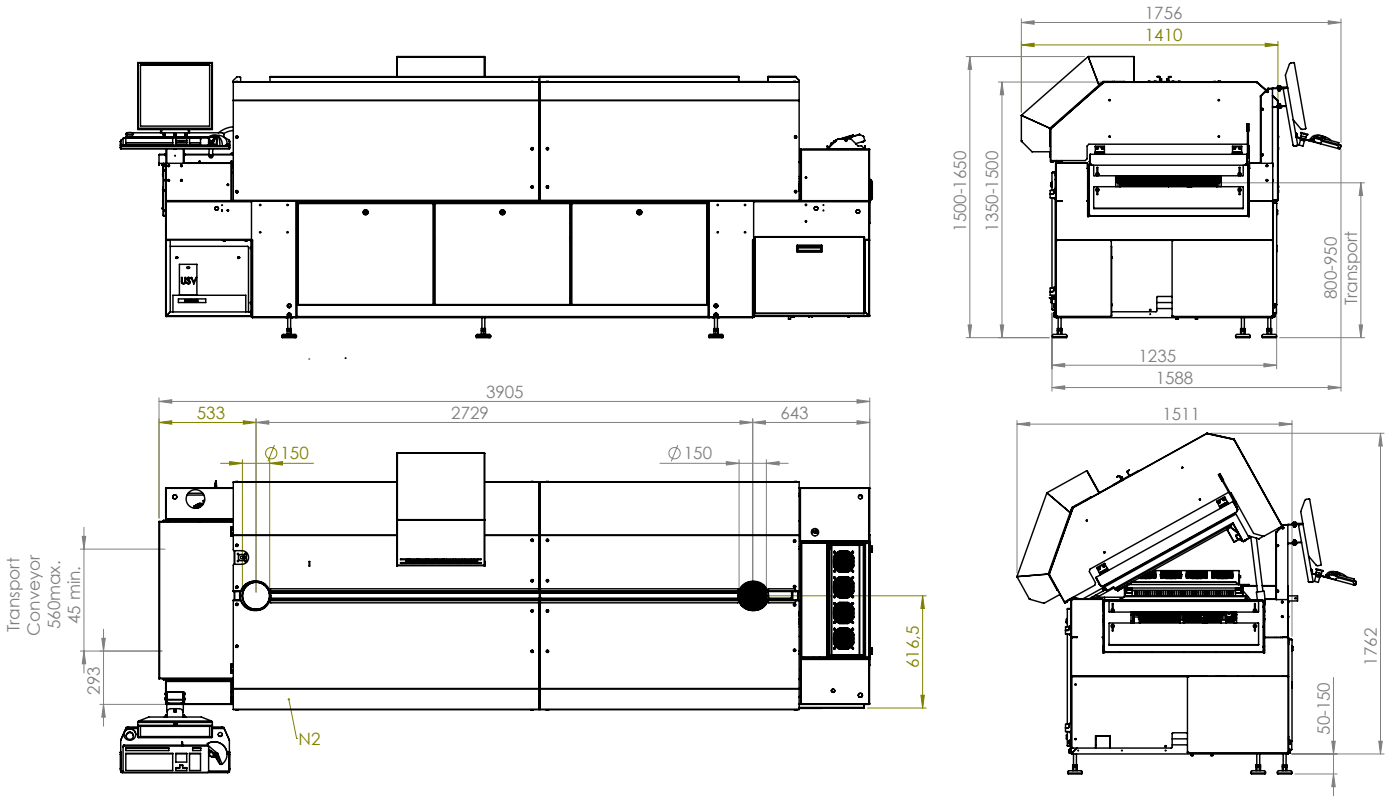

Dimensions (Basic machine):	
Length:	3,905 mm
Width:	1,410 mm
Height:	1,350 – 1,500 mm
Height (open):	1,670 – 1,820 mm
Weight:	approx. 1,100 kg
Paint:	RAL 7035/7016

Conveyor system:	
Working width:	45 – 560 mm
Working width (PCB center support):	45 – 560 mm
Board clearance (standard):	+32/-40 mm
Center support pin height:	18 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:	3,260 mm
Heating zone:	1,525 mm
Cooling zone:	1,735 mm
Infeed zone:	620 mm
Process chamber width:	approx. 745m

Heating system:	
Convection share:	100 %
Gas flow/module:	approx. 500 m^3/h, adjustable
Convection modules:	4 top/4 bottom
Preheating:	3 top/3 bottom
Soldering zone:	1 top/1 bottom
Nominal rating per module:	3,3 kW

Cooling:	
Cooling zone:	3-stage version and water recooling
Coolant:	water/R134A (option)/air
Ambient temperature:	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 50 A
Nominal rating (subject to configuration):	55 kW
Reduced rating:	25 kW
Continuous rating for operation:	ca. 6 – 8 KW

Exhaust rating:	
Exhaust stacks:	2 stacks, 150 mm (6") ø each
Exhaust volume per stack:	300 m^3/h – 600 m^3/h
Exhaust monitoring per stack:	integrated

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

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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

China
info-eap@kurtzersa.com

Korea
kmc@kmckr.co.kr

Visit www.ersa.com for further information!