

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



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

The new HOTFLOW is the third generation machine based on the proven & proprietary Multijet Ersa heating technology. The R&D of this HOTFLOW series had its focus on improved heat transfer via a complete re-design of the process tunnel, reduced energy and $\rm N_2$ consumption, improved cooling, as well as optimized process control.

From a productivity versus floor space requirement standpoint, the HOTFLOW sets the industry standard. With dual, triple and now quad track options, it is possible to increase throughput by as much as 400 % without increasing floor space! Tracks run at their own set speed and at their own PCB width for maximum flexibility.

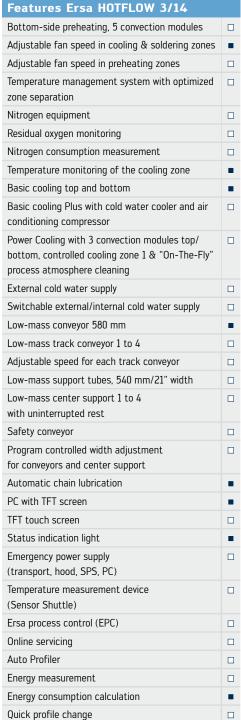
It is now possible to run as many as three different products simultaneously at four different set speeds and widths. Only highest quality materials have been used in order to guarantee the highest machine availability. Finally, all major parts are exchangeable within only minutes in order to keep machine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

Unique Technology Advantages:

- Dual, triple and quad track transport increases throughput
- Motor basic cooling top/bottom
- Optimized heat transfer, minimized Delta T,
 zone separation & temperature controlled cooling
- "On-The-Fly" maintenance under N₂ atmosphere reduces downtime
- Switchable internal/external cooling unit
- 100 % tested process tunnel (gas sealed)
- Lowest energy and N₂ consumption
- New process control software
- Best machine uptime
- Without any tool retractable heating modules
- Ultra low-mass center support
- Energy efficient blower motors

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



standard \blacksquare / option \square



Improved heat transfer with high density Ersa multijet nozzle system



Process tunnel, tested for tightness, guarantees long-term stability



Maintenance-friendly condensation management with cleaning granulate



Maintenance "On-the-Fly" continues to operate while the condensation management system is being cleaned



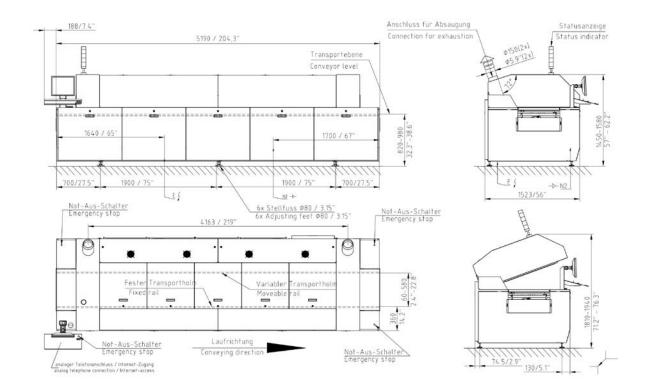
Quick and easy servicing through excellent accessibility



Ersa Autoprofiler: Easy offline profiling for highest machine uptimes.



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Dimensions (Basic machine):	
Length:	5,190 mm
Width:	1,530 mm
Height:	1,450 – 1,580 mm
Height (open):	1,810 – 1,940 mm
Weight:	approx. 2,500 kg
Paint:	RAL 7035/7016

Conveyor system:	
Working width:	45 – 580 mm
Working width (PCB center sup	port): 45 – 580 mm
Board clearance (standard):	+25/-37 mm
Board clearance (option):	+35/-37 mm
Center support pin height:	15 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:	3,790 mm
Heating zone:	2,650 mm
Cooling zone:	1,140 mm
Infeed/Outfeed zone:	700 mm
Process chamber width:	approx. 770 mm

Heating system:	
Convection share:	100 %
Gas flow/module:	approx. 500 m³/h (17,657 ft3/h), adjustable, Multijet system
Convection modules:	7 top/2 – 7 bottom
■ Preheating:	5 top/5 bottom (option)
Soldering zone:	2 top/2 bottom
Nominal rating per m	odule: 3,3 kW

Cooling:	
Cooling zone:	Ersa Multijet system;
	3-stage version and water recooling
Coolant:	water/R407C (option)/air
Ambient temper	ature: max. 32°C [90°F]

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

Safety devices:
■ 1 main switch
4 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:	53 kW – 86 kW
	(subject to configuration)
Reduced rating:	33 kW
Continuous rating for o	operation: ca 9 – 15 KW

Exhaust rating:		
Exhaust stacks:	2 sta	cks, 150 mm [6"] ø each
Exhaust volume per sta	ack:	400 m ³ /h [14,126 ft ³ /h]
Exhaust monitoring per stack: integrated		

Noise level:	
Permanent noise level:	< 70 dB (A)

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