Kurtz Ersa Selective Soldering Systems In a class of its own!







SMARTFLOW 2020 and ECOSELECT Compact systems with high-end technology. No compromises in quality.



The perfect start-up solution

Compact without compromises, extremly smart!

Highlights SMARTFLOW 2020

- VERSAFLOW technology on small footprint
- Award-winning user interface ERSASOFT 5
- Extremely maintenance-friendly
- Full-area upper/lower IR preheating (adjustable)



Small footprint – high-end technology

Selective soldering for small series and prototypes.

Highlights ECOSELECT 1

- Compact batch system with small footprint
- Up to two solder pots and two flux heads to increase thoughput
- Full-area lower IR preheating (adjustable)
- Upper convection heating



Inline and batch system

For highest selective soldering quality

Highlights ECOSELECT 4

- Compact selective soldering system with small footprint
- Batch or inline production
- Up to two flux heads and solder pots to increase throughput
- Full-area lower IR-preheating (adjustable)
- Upper convection preheating/power convection
- Upper convection heater in the solder module
- Award-winning user interface ERSASOFT 5
- VERSACAM
- PCB size 508 x 508 mm

VERSAFLOW 4 and VERSAFLOW 3 The best made even better. The next generation with new features.

The world's leading inline selective soldering system

The modular platform offers always the right combination.



Highlights Ersa VERSAFLOW 3

- Working area: VERSAFLOW 3/45: 16" x 20" (option 20" x 20") VERSAFLOW 3/66: 24" x 24"
- Single-wave soldering for higher flexibility or multiwave soldering for high-volume processes
- Product changes without downtime even in multiwave processes
- Parallel process due to the separation of fluxing, preheating and soldering
- Operation of up to four spray heads
- Up to five lower preheatings with optional upper convection heating
- Perfect for the connection to assembly stands and periphery
- Connection to traceability systems for process control



VERSAFLUX & VERSAFLEX The new freedom for fluxing and soldering



Parallel processes in certain modules for highest throughput



VERSAFLEX module - 2 solder pots mounted on 2 independent axis systems

With the all-new VERSAFLUX and VERSAFLEX modules, Ersa is setting benchmarks in quality, flexibility and throughput. As the name suggests, there is a flux (VERSAFLUX) and a solder module (VERSAFLEX).

Both modules work with two mutually independent axis systems, allowing the pots and spray heads to be adjusted and moved individually in x-, y- and z-direction. Assemblies can thus be fluxed or soldered synchronously or asynchronously. In synchronous mode, the two axes with the flux heads or pots move in parallel at a predetermined fixed distance to one another – ideal for panel processing.

In asynchronous mode, each axis follows its own travel path. This means an assembly can be processed with two different nozzle diameters at the same time, for example. Through this, and through operation with different solder alloys and/or fluxes without changeover necessary, they also create a tremendous added value for production an offer maximum flexibility.



VERSAFLUX module – 2 fluxers mounted on 2 independent axis systems









CAD-Assistent 4 – fast, intuitive and comfortable

ECOCELL Uncompromising in throughput and quality – Flexible in production layout







Inline and batch system Highest flexibility in production layout





Highlights ECOCELL

- High-end selective soldering system for lean production processes (U-shape)
- Single wave soldering for highest flexibility or multiwave soldering for high-volume applications
- Product changes without downtime even in multiwave soldering processes
- Parallel processes due to the separation of fluxing, preheating and soldering
- Operation of up to four spray heads
- Up to two lower preheatings and optional upper convection heating
- Perfect for the connection to assembly stands and periphery



Kurtz Ersa ECOCELL with FIFO-TOWER

The Kurtz Ersa Modular System Always the right combination for your needs and your budget



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Legend:



Preheat module with bottom-side

Solder module with single pot

preheating



Solder module with multiwave solder hath





Solder module with dual pot and top-side preheating

Solder module with VERSAFLEX unit



Flux module with VERSAFLUX unit



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Preheat module with power convection

Equipment configuration

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	1.0W 201	ecth	ect "	,	1.0W3143	1.0W 3166	1.0W 4/5'	1.0M 4 XL
	SWARTE ON 202	ECOSELECT	ECOSELECT	FCOCELL	VERSAFLOW 3145	VERSAFLON 3160	VERSAFLOW 4153	VERSAFLON & XL
Modules	1	1	1	1	2	1	2	1
Flux module Max. number of spray heads per flux module	1 1	1 1 – 2	1 1 – 2	1 1 - 4	2 1 – 4	1 1 – 2	2 1 – 4	2 – 4
Number of spray heads per flux module	1	1 - 2	1-2	1 - 4	1-4	1 - 2	1 - 4	1 - 2
Preheating module	1	1	1	1 - 3	1 – 5	1 – 5	1 – 5	2
Solder module	1	1	1	1 – 2	1 - 3	1 – 3	1 – 3	1 – 2
Number of solder pots per module	1	1 – 2	1 – 2	1 – 2	1 – 2	1 – 2	1 – 2	2
VERSASCAN VERSAEYE								
Convoyor system								
Conveyor system Autom. conveyor width adjustment								
Dual track conveyor system							_	
Center support								
Heavy-load conveyor system								
Conveyor extension					•			
Fluxer								
1 fluxer 1 tank								
2 fluxers 1 tank								
2 fluxers 2 tanks								
3 fluxers 1 tank 4 fluxers 1 tank								
4 fluxers 1 tank 4 fluxers 2 tanks								
VERSAFLUX: x-z-/y-z-variable								
VERSAFLUX ultra: x-y-z-variable + optimization of process time								
Additional area spray head								
Spray test function								
Fiducial recognition								
PCB clamping in flux module								
Flux pressure control		100 B			•		10 A 10	10 A 10
Preheating								
Segmented heating								
Temerature monitoring, pyrometer								
Top-side heating with IR emitters								
Upper convection heating								
Upper heating in soldering module Failure monitoring emitter heating								
Top-side heating with power convection	-			_	_	_		
Solder module								
Second solder pot in the solder module								
y-variable			_				_	_
z-variable								
y/z fix								
y/z variable								
VERSAFLEX: x-z-/y-z-variable								
VERSAFLEX ultra: x-y-z-variable + optimization of process time								
MINI-VARIO-WAVE					•	•		
MINI-DIP								
Multiwave mechanic solder pump								
Multiwave inductive solder pump Multiwave inductive solder pump, XL								
Automatic solder wire feeder								
Automatic nozzle cleaning								
Roller conveyor in solder module							-	
Fiducial recognition								
Recognition of PCB deflection								
Process control camera						=		
VERSACAM solder wave height control "on the fly"								
N ₂ heating						-	•	
PCB downholder system Residual O, measurement dip module								
				-	_		_	
Interface				_			_	
SMEMA								
Scanner Traceability								
Transponder reading device							- 10 A	
Additional								
Touchscreen								
CAD-Assistant								
Peripherals/inlet/outlet								
Upper sensors								
Locking for viewing panels								
Glass panes, ESD-fit								
"On the fly" maintenance								

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Electronics Production Equipment Worldwide Presence



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