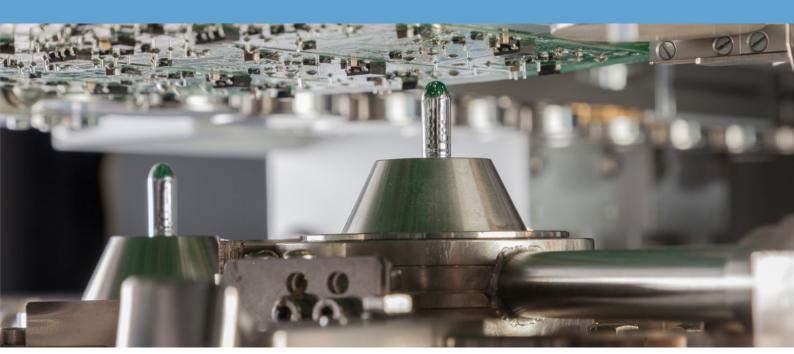
Ersa Selective Soldering Systems In a class of its own!



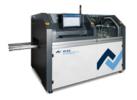
















SMARTFLOW 2020 and ECOSELECT

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



For highest selective soldering quality

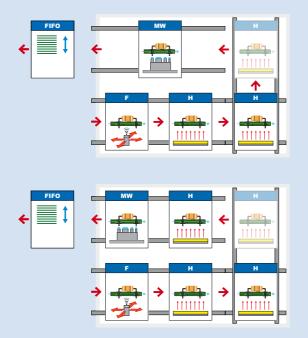


Highlights ECOSELECT 4

- 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

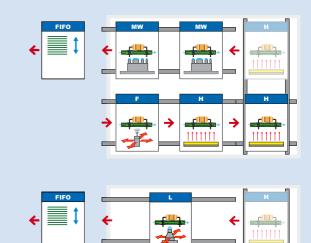
ECOCELL

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



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

VERSAFLOW 4 – The next generation

The best made even better!



VERSAFLUX & VERSAFLEX

The new freedom for fluxing and soldering



Parallel processes in certain modules for highest throughput

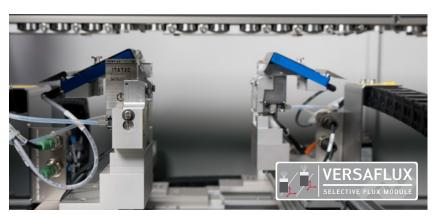


VERSAFLEX module - 2 solder pots mounted on 2 independent axis systems

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



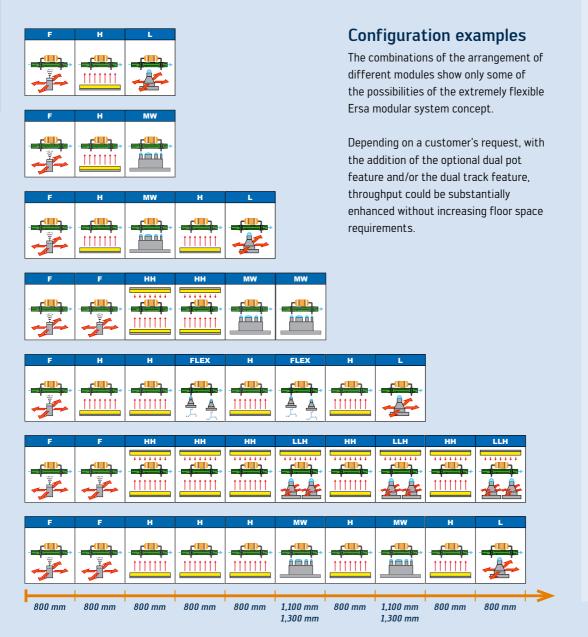






CAD-Assistent 4 – fast, intuitive and comfortable

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



Legend:



Flux module with spray fluxer



Preheat module with bottom-side preheating



Solder module with single pot



Solder module with multiwave solder bath



Preheat module with bottom- and top-side preheating



Solder module with single wave unit and top-side preheating



Solder module with dual pot and top-side preheating



Solder module with VERSAFLEX unit



Dual track feature with two parallel single wave units



Flux module with VERSAFLUX unit



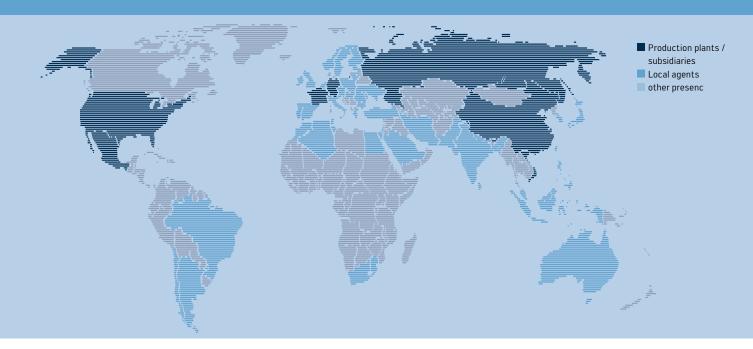
Preheat module with power convection



Equipment configuration

	2020)			الله الله	166	155	4.
	TELOW C	1ECT 1	JECT h	Δ¥	FLOWS	ELDW3	FLOWA	ELOWA
	SMAR	kuskiku 1	EOSEIET L	ECOLELL	VERSHELD M 3145	VERS AFT DIN 3 les	VERSAFLOW 4155	VERE AFLOW LA
Modules								
Flux module	1	1	1	1	2	1	2	1
Max. number of spray heads per flux module	1	1 – 2	1 – 2	1 – 4	1 – 4	1 – 2	1 – 4	2 – 4
Number of spray heads per flux module	1	1 – 2	1 – 2	1 – 2	1 – 2	1 – 2	1 – 2	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								
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 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								
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 ₂ measurement dip module			-			-		
2					_			
Interface								
SMEMA								
Scanner	-		-	-	-	-		
Transponder reading device								
	-	_	_	_	_	_	_	_
Additional								
Touchscreen								
CAD-Assistant						-	-	-
Peripherals/inlet/outlet				-		-		
Upper sensors			-	-	-	-		
Locking for viewing panels								
Glass panes, ESD-fit								
"On the fly" maintenance								

Electronics Production EquipmentWorldwide Presence



America

Kurtz Ersa, Inc. 1779 Pilgrim Road Plymouth, WI 53073 USA Phone +1 920 893 3772 from US: 1 800 363 3772 Fax +1 920 893 3322 usa@kurtzersa.com www.ersa.com

Mexico

Kurtz Ersa, S.A. de C.V.
Av. Lopez Mateos Sur Núm. 1450 Int. 7
Col. Las Villas (Plaza las Villas)
Tlajomulco de Zúñiga, Jalisco
C.P. 45643
México
Phone +52 33 15 93 18 63
info-kmx@kurtzersa.com
www.ersa.com

Ersa GmbH (Headquarters) Leonhard-Karl-Str. 24 97877 Wertheim/Germany

Asia

Kurtz Ersa Asia Ltd.
Unit 03-05, 8th Floor
One Island South
No. 2 Heung Yip Road
Wong Chuk Hang
Hongkong
China
Phone +852 2331 2232
Fax: +852 2758 7749
asia@kurtzersa.com
www.ersa.com

China

Ersa Shanghai Room 720, Tian Xiang Building No. 1068 Mao Tai Rd., Shanghai 200336 China Phone +86 213126 0818 Fax +86 215239 2001 info-esh@kurtzersa.com www.ersa.com

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

Vietnam

Kurtz Ersa Vietnam Company Limited B916 Road 3, Kizuna 2 Factory Area, Lot B4-3-7-8, Tan Kim IP, Can Giuoc Dist. Long An Province, Vietnam Phone +84 2723 733 682 info-kev@kurtzersa.com www.ersa.com

France

Kurtz Ersa France 2, Rue de Wissembourg 67500 Haguenau France Tel.: +33 6 07 78 01 87 kefrance@kurtzersa.com www.ersa.com



