

Production needs us.

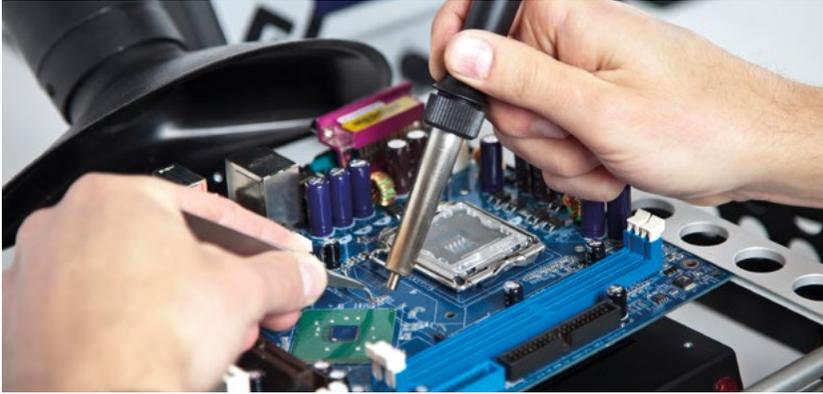
The background of the central section is an abstract digital landscape with glowing blue and orange lines, suggesting data streams and binary code. A dark blue rectangular box is centered over this background, containing the text 'DISCOVER SMART TECHNOLOGIES' in white, uppercase letters. The text is enclosed in white corner brackets.

DISCOVER
SMART
TECHNOLOGIES

Solutions for the most successful companies.



HAND SOLDERING



For the Erska soldering tool division, the emphasis rests on soldering and desoldering stations for the use in microelectronics and SMD assemblies up to thick-copper applications. Erska stations impress by their compact size, high performance, energy efficiency and low operating costs, since inexpensive exchange soldering tips are used.

The multi-channel soldering and desoldering station **i-CON VARIO 4** is the flagship of the **i-CON** family. With up to four connectable soldering and desoldering tools it meets the highest demands of professionals.

The **i-CON VARIO 2** multi-channel soldering and desoldering station makes it possible for the user to operate two tools at the same time. A portfolio of ten soldering and desoldering tools offers a suitable tool for every application. Starting with the proven **i-TOOL** with its huge portfolio of tips, the **i-TOOL AIR S** for professional soldering and desoldering of components with hot air, to the **i-TOOL HP** for highest solder heat requirements.

The soldering and desoldering stations **i-CON 1V** and **i-CON 2V** are the advancement of the popular **i-CON** series on basis of the future-oriented **VARIO** platform. Both soldering stations are equipped with intelligent and dynamic power management and can drive additionally to the hitherto soldering and desoldering tools the SMD desoldering tweezers **CHIP TOOL VARIO**, the desoldering tool **X-TOOL VARIO** and the new **i-TOOL HP**.



i-CON VARIO 4



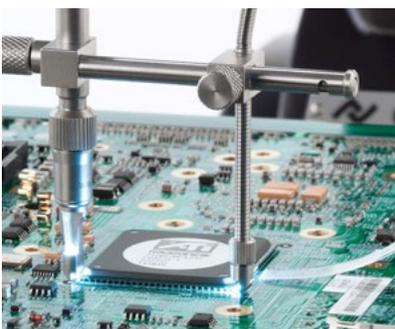
i-CON NANO

i-CON 1V

i-CON 2V

i-CON VARIO 2

INSPECTION



It does not matter whether the purpose is to inspect a BGA which has just been replaced using the rework system, or whether the aim is to establish or verify correct process parameters – the **ERSASCOPE** inspection system has established itself as the preferred tool to non-destructively inspect hidden solder joints, and as such it should be at hand in each and every electronics manufacturing environment. The **MOBILESCOPE** is the mobile version of Erska inspection systems.



ERSASCOPE 2



For more than a decade now, over 5,000 users world-wide are drawing benefits from using the patented IR rework technology. Aside from its very attractive price-performance ratio, the units have gained their strong market position because they deliver excellent results even with the most complex rework tasks.

Ersa has a model diversity that extends to automated hybrid stations with extensive accessories. The hybrid rework system **HR 600/2**, which is also available with VOIDLESS module, sets standards in the automated rework of PCBs. In addition, Ersa offers the **HR 550** – a further high-performance model for safe and easy manual rework with guided processes.

The latest Ersa system, the **HR 600 XL**, has been developed for large PCB formats of up to 625 x 625 mm and handles component sizes of 60 x 60 mm without any problems. Thanks to the innovative IR Matrix Heater™ and 16 kW power, the **HR 600 XL** ensures the safe processing of large, high-mass assemblies.

The compact system **HR 200** for rework applications “out of the box” convinces professionals and beginners not only with its easy setup but as with its intuitive operation.



NEW!

HR 600 XL



HR 600/2



HR 550



HR 200



HR 100

SOLDER FUME EXTRACTION



The highly flexible solder fume extractions **EASY ARM 1** and **EASY ARM 2** are based on over 15 years of experience in the field of process air cleaning. The functional design of the devices combined with a high extraction rate, an efficient filter system and the silent operation characterize both devices. The large choice of extraction arms allow the easy adaption to any individual workspace.



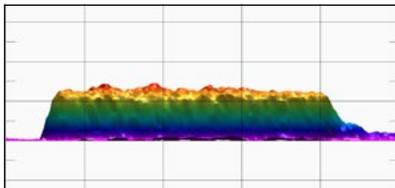
EASY ARM 1 & 2



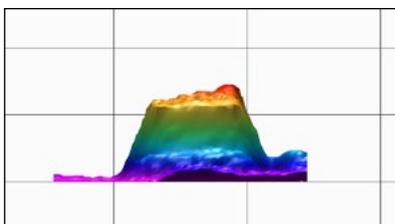
The **VERSAPRINT 2** is the new generation of stencil printers from Erska, based on the proven concept of the **VERSAPRINT** series. Modern drive technology with encoders enhances control and verification of positioning processes on all process relevant axes. The **VERSAPRINT 2** uses modern camera technologies for fast setup and integrated 100% inspection of the print area.

The new software design together with touch monitor and compact monitor arm provides for an efficient and space-saving operation of the printer. Four models are available.

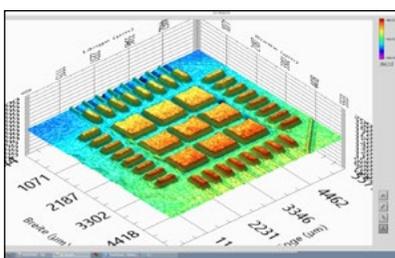
The **VERSAPRINT 2 ELITE** and **VERSAPRINT 2 ELITE plus** are ideal printers for the entry into line production or when a 100% inspection is not desired – for example, because an SPI system already exists in the line. The **VERSAPRINT 2 ELITE plus** can be retrofitted with 2D or 3D SPI. If a 2D or 3D inspection is necessary from the outset, the **VERSAPRINT 2 PRO²** and the **VERSAPRINT 2 ULTRA³** fulfill all requirements.



Visualization of the 3D-SPI which is integrated in the VERSAPRINT



Profile of the inspection result incl. height indication – rotated by 90°



Inspection result



VERSAPRINT 2 ELITE plus

The sturdy basic version uses an area camera to align the substrate to the stencil and can use this to carry out optional inspection tasks. The stencil support can be adjusted without tools for frame sizes from 450 mm to 740 mm. The ELITE plus can be upgraded or retrofitted with all the options available for the VERSAPRINT 2 series, including 2D and 3D-camera.



VERSAPRINT 2 PRO²

With its fast 2D-LIST camera (LIST = Line Scan Technology), this system is particularly suitable for products with a high inspection requirement. It can also be upgraded or retrofitted with all the options of the VERSAPRINT 2 series.



VERSAPRINT 2 ULTRA³

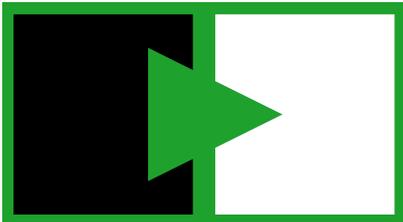
The ULTRA³ model uses the very latest measuring technology provided by the 3D-LIST camera. The shape of the smallest solder paste depots plays a major role in the printed volume and ultimately for the shape of the solder connection. Is the height of the paste depot consistent or does it drop towards the edges? The ULTRA³ can answer this question for you. It is both a stencil printer and 3D-SPI in one. It can also be upgraded or retrofitted with all the options of the VERSAPRINT 2 series.



Outstanding thermal performance, highest machine uptime and lowest operating costs have been the convincing advantages of Ersas reflow soldering systems for many years already.

With the HOTFLOW 4 series Ersas achieved a further decisive reduction of nitrogen and energy consumption without loss of performance. In addition to best economic efficiency also an important contribution to saving resources and sustainability. A number of models differing in process tunnel length, process gas cleaning or innovative conveyor systems are available.

The smart nitrogen control system substantially reduces the N_2 consumption offering, in conjunction with the efficient blower motors, an enormous reduction in energy use. In the relation footprint to productivity, the HOTFLOW 4 series redefines the industry standard. Thanks to the dual or triple conveyor option, the throughput can be substantially increased without enlarging the footprint.

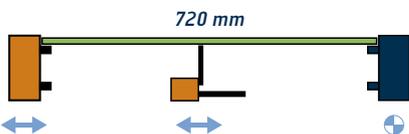


IPC-HERMES-9852

The global standard for "M2M" in SMT assembly

HOTFLOW 3 XL

For particularly wide PCBs Ersas offers their reflow models HOTFLOW 3/20 and HOTFLOW 3/26 as XL-versions, as well. The working width of machines with single conveyor consequently increases from 560 mm to 720 mm. The HOTFLOW 3 can be equipped with dual, triple and even quad track conveyors. Ersas therefore offers the right machine for every SMT requirement.



Single track:
1 center support and 1 rail variable



HOTFLOW 4/26
HOTFLOW – machine series with different process lengths for each application

HOTFLOW 4/8

HOTFLOW 3/14e

HOTFLOW 3/26 XL



Having sold and installed more than 2,000 selective soldering systems worldwide, Erska is both market as well as technology leader. The product range is always ideally tuned to the user's requirements. In the "classical line" version, the flexible modular concept of the **VERSAFLOW 3** offers virtually unlimited combination possibilities, while the **ECOCELL** with its U-layout of the process zone offers the ideal prerequisites for manufacturing in production islands.

The **ECOSELECT** line is appropriate for those situations where the production volumes are not very high, but where the quality and the repeatability have to be up to the highest standards and may not be compromised.

The next generation

The new models of the **VERSAFLOW 4** series convince not only by the flexible modular concept and the improved process flexibility, but also with a ultra-modern user interface – the new **ERSASOFT 5**.

Part of the new machine generation is the **VERSAFLOW 4 XL**, which is especially designed for the soldering of PCBs in "XL" sizes. With the new **VERSAFLUX** and **VERSAFLEX** modules the machine offers revolutionary flexibility at highest soldering quality.

The compact system **SMARTFLOW 2020** convinces with technology without compromise on smallest footprint – the ideal system for small batches or prototypes.



*VERSAFLOW 4 series,
available as VERSAFLOW 4/55
or VERSAFLOW 4 XL*



SMARTFLOW 2020



*VERSAFLOW 3 series,
available as VERSAFLOW 3/45
or VERSAFLOW 3/66*



ECOSELECT 1

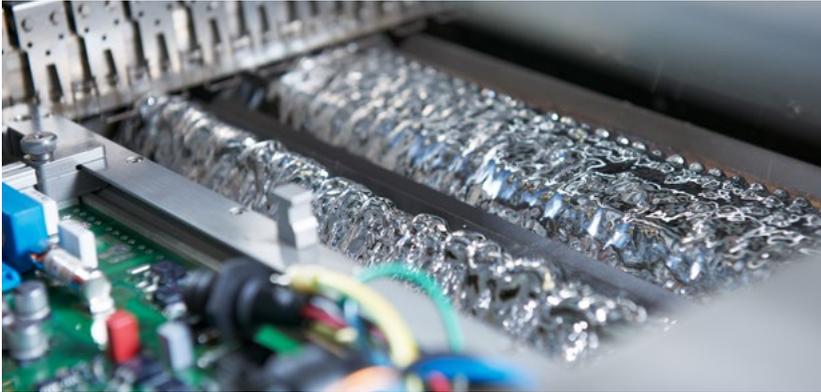


ECOSELECT 4



ECOCELL

WAVE SOLDERING



The **POWERFLOW N₂** full-tunnel nitrogen wave soldering system represents the maximum expansion stage of this new generation of machines and offers a wide range of configuration options, thanks to which the system can be adapted for special customer requirements.

The **POWERFLOW e N₂** wave soldering system has been conceived for average production volumes and batch sizes, and its design concept allows achieving substantial cost savings through the drastic reduction of dross generated. It is available, as is the high-end model of the **POWERFLOW** series, with a pallet as well as a finger type conveyor.



HANDLING & AUTOMATION

During development of the new Ersä handling systems, great care was taken to cater to customer requirements. This resulted in solutions which offer optimum printed circuit board handling for the production process.



There are various modules available, from which the handling system can be configured at will. The range includes lifting and lowering stations as well as height

difference modules, turning stations and workstations. There are conveyor belts for up to 8,000 mm in length available to connect the individual modules. The

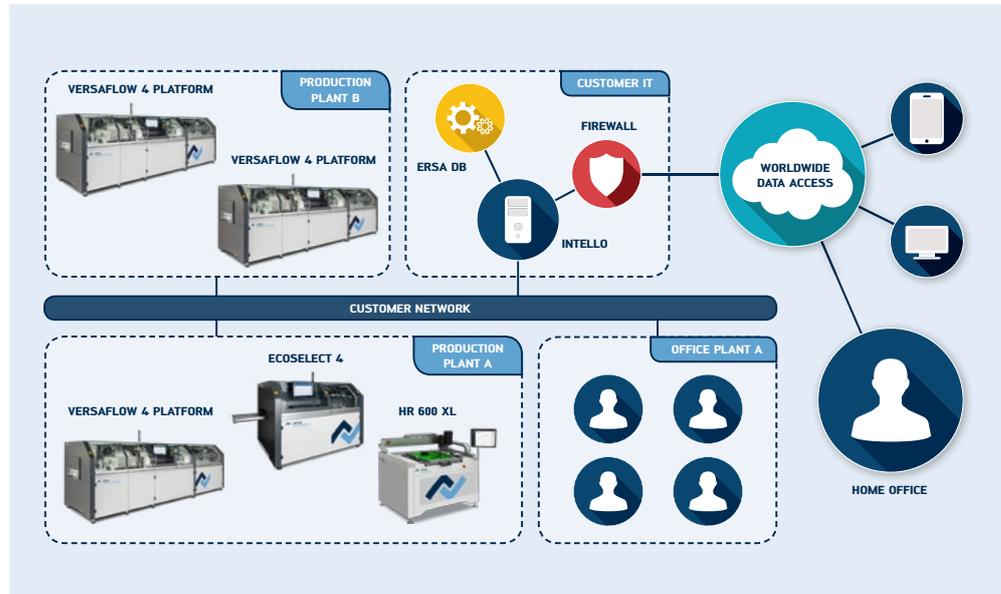


handling system shown with different modules is only one of an almost infinite number of combination options possible with the highly flexible Ersä Modular System. Depending on customer wishes, the handling system can be completely tailor-made.

INDUSTRY 4.0 – GRASP YOUR OPPORTUNITY WITH KURTZ ERSA

Industrial digitalization has reached electronics production already. Ersas ERSASOFT 5 is a databased software, which assures perfectly connected operations of soldering production. Data can be accessed quickly and easily or even be shared on several machines. For example: a product is manufactured at different sites – so it can be guaranteed that the production process is equivalent at every subsidiary, worldwide.

Get started and rely on the smart usage of your machine data within Industry 4.0 for an optimum of productivity and reproducibility!



PROFESSIONAL SERVICES



In addition to its wide product range, Ersas offers a comprehensive range of services, such as employee qualification measures, system and process audits, maintenance contracts, ramp-up support, equipment capability

studies or online spare part catalogues. Qualified personnel is the key to increased productivity. Hence Ersas supports its customers and prospects with different employee qualification programs and know-how transfer both



based on practical work. For this purpose Ersas has professional training locations with modern equipment at their application and demo center. Contact your personal Area Sales Manager or local agent to learn more. They will be glad to develop and plan your specific training in cooperation with you.

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