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**Ultra i2 Offline Selective Soldering
System Machine Brochure**

Ultra i2

Offline Selective Soldering System

Distributed worldwide, the SASinno range of equipment is a continually developing and improving windows 11 based software interface combined with a quality hardware platform.

The Ultra-i2 is the premium Offline Selective Soldering machine within the SASinno range. Building upon the proven foundations of the Ultra-i1, the Ultra-i2 takes soldering performance to the next level with its dual drop jet fluxer configuration and twin electromagnetic pump solder pots, delivering greater versatility and throughput for demanding production environments.

The Ultra-i2 features two drop jet fluxers for high-precision flux application across the board, combined with top and bottom preheating modules to ensure thorough thermal preparation prior to soldering. The PCB is positioned and moved via an X/Y-axis table driven by servo motors, while both solder pots and drop jet fluxers are adjusted along the Z-axis using servo motors. Crucially, the two solder pots move independently along their own dedicated Z-axes, providing versatile application scenarios and allowing simultaneous or sequential soldering operations to be carried out with complete flexibility.

The Ultra-i2 supports PCB board sizes up to a maximum of 460 x 510 mm and is controlled via a Windows 11 based PC using the specialised Selective Soldering software that is tried and tested across the full SASinno machine range. Standard features include dual inline N2 heaters for nitrogen atmosphere optimisation across both solder pots, auto wave height calibration on each pot for consistent and self-adjusting solder wave performance, fiducial mark recognition for high-precision PCB positioning, and a live-on camera system for real-time process monitoring throughout the entire soldering cycle.



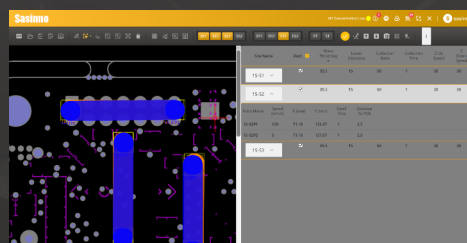
The Ultra-i2's extensive range of optional upgrades allows customers to further tailor the machine to their specific production requirements, ensuring it remains an essential and future-proof soldering solution for next-generation intelligent manufacturing and Industry 4.0 environments.

Contact us for more information or to request a live demonstration at sales@detch-europe.com or call us on +44 (0)1262 409944

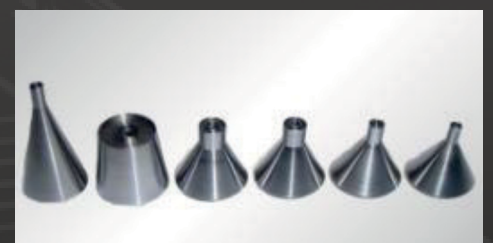
Key Features



Precise Selective Soldering System



User Friendly and Easy To Program



Various Soldering Nozzle Sizes

Technical Specifications

Operating Power / Max Power	6KW / 21KW
PCB Dimensions	50 x 50mm Up to 460 x 510mm (460 x 250mm Two Boards)
PCB Clearance	65mm Top Side and 32mm Bottom Side
Maximum PCB and Carrier Load	Upto A Combined Total Of 20KG
Machine Weight and Dimensions	W: 1,402mm x D: 1,660mm x H: 1,521mm Weight: 926KG
Power Supply	3Ph 380V 50Hz Maximum 40A (Requires 63A Breaker)
Air Supply	Between 3 - 5 Bars
Exhaust Requirements	400M3/h With A 150mm Diameter Exhaust Port
PC System	Windows 11 Industrial PC
Typical Program Creation Time	Approximately 10 Minutes
Programming Method	Either Camera Teaching or Drawing On Scanned PCB Image
Offline Programming	Available As An Additional Option
Machine Safety Curtain	Included At The Entrance Of The Machine
Fiducial Camera System	Used For Fiducial Verification and Program Teaching
Axes Of Motion	Controllable X, Y and Z Axis Via Servo Motors
Motion Hardware	Ball Screw and Linear Guide Rail With + / - 0.05mm Accuracy
Motion Table Limit Alarm	Limit Sensors With Linked Alarm System
Flux Nozzle	2 x Drop Jet Fluxer
Flux Tank Capacity	1 Litre For Both Fluxer Nozzles With Constant Pressure
Cleaning Tank Capacity	1 Litre For The Cleaning Nozzle With Constant Pressure
Cleaning Solvent Alarm	Integrated Alarm System When Cleaning Solvent Is Low
Bottom Pre-Heating	Included As Standard Up To 8KW
Top Pre-Heating	Included As Standard Up To 3.5KW
Solder Pot Capacity	2 x 10KG Solder Pot With Electro Magnetic Pump
Solder Temperature Control	PID With A Heat Up Time Of Approximately 40 Minutes
Pre-Melt Solder Function	Included As Standard, Timer Can Be Set In The Software
Maximum Temperature	Up To 380 C As Standard With A 2.4KW Heater
Temperature Alarm	Included As Standard
Temperature Auto Calibration	Included As Standard
N2 Flow Monitoring	Included As Standard
N2 Purity Monitoring	Additional Option
Solder Pot Quick Exchange Trolley	Additional Option
Solder Pot Docking Rack	Additional Option With Pre-warming Function
Mini Wave Nozzles	4, 6, 7, 10, 12mm Diameter As Standard (Can Be Customised)
N2 Heater	Included As Standard For Each Soldering Nozzle
N2 Specifications	>99.99% Pure, 25 - 250 C, Consumption Per Nozzle 3M3/H



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Cost Effective Selective Soldering Without Compromise

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