



EUROPLACER IINEOII 185 & 685

The striking Europlacer iineo platform features many improvements to the Europlacer machine range, such as an extremely high feeder count, largest industry board size and increased maximum component height. The platform uses Europlacers unique Integrated Intelligence™ plus proven core features while introducing new technologies with linear motors and digital cameras.

High-speed placement: Up to 30,000–30,780 components per hour (CPH) under optimal conditions, delivering excellent throughput for high-mix manufacturing

Daily capacity: Approx 240,000 placements in a typical 8-hour shift (depending on product complexity and setup time)

Exceptional flexibility: Handles components from 01005/03015 metric chip sizes through fine-pitch ICs, BGAs, and larger odd-form components on the same machine

Large feeder capacity: Supports up to 264 × 8 mm feeder positions, enabling rapid changeovers and efficient high-mix production with minimal setup time

Large PCB capability: Can process boards up to 1,610 × 600 mm (with appropriate configuration), making it suitable for everything from compact electronics to large industrial assemblies



EUROPLACER EP700 SMT SCREEN PRINTER

Flexible automation is at the very centre of the platform. SP700 Series printers are comprehensively equipped with almost every parameter fully programmable.

Up to 313 PCB prints per hour (11.5 s cycle time)

~7,500 potential print cycles per 24-hour production day

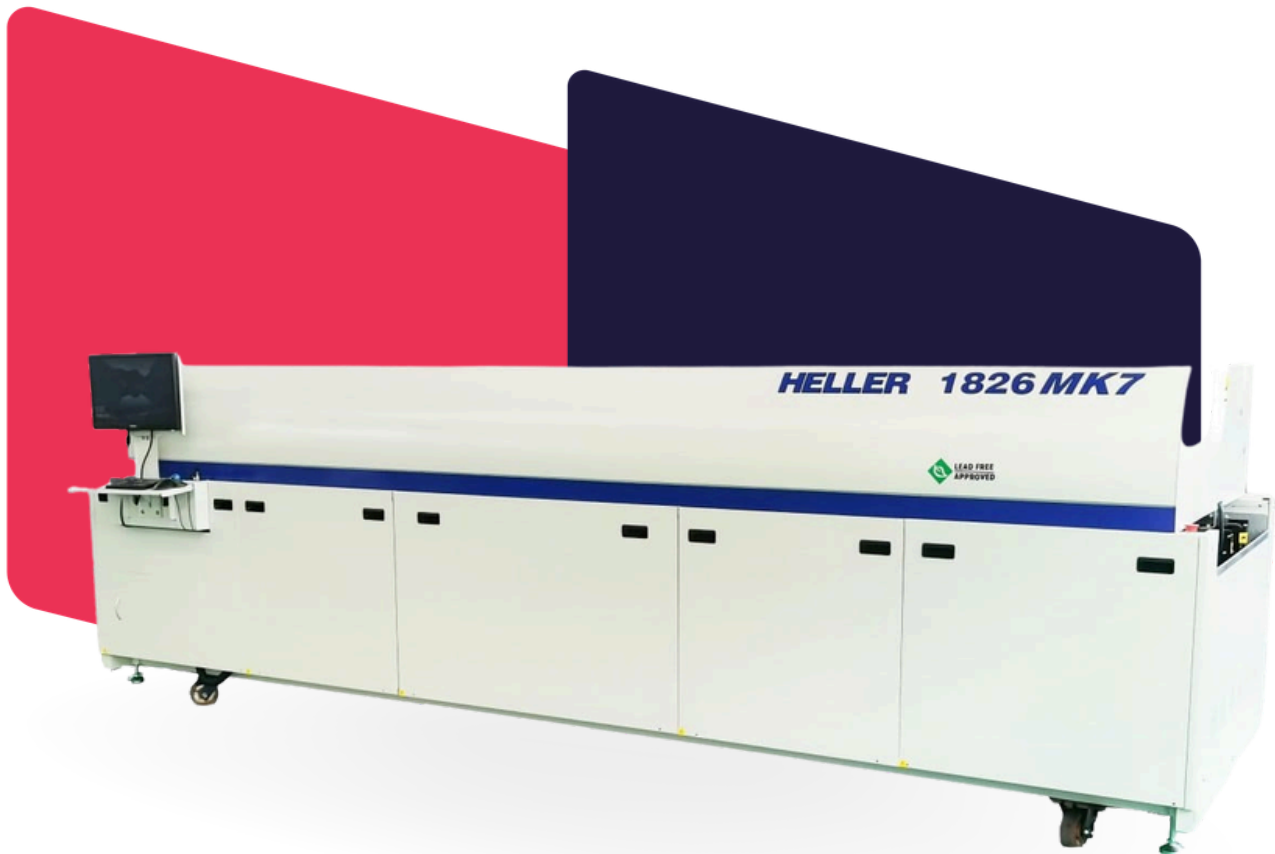
20 µm process repeatability for accurate solder paste deposition

Automated setup, cleaning, and inspection features

Optimised for high-mix, high-reliability PCB manufacturing



EXPERTLY ENGINEERED. POWERING POSSIBILITIES.



HELLER 1826 MK 7 REFLOW OVEN

The 1826 MK7 is a high volume reflow oven system with 8 heated zones and belt speeds up to 1.88m/min. The 1826 MK7 offers the lowest delta T's, reduced nitrogen and electrical consumption and advanced flux management options. The 12" wide heater modules offer profile compatibility with competitor systems.

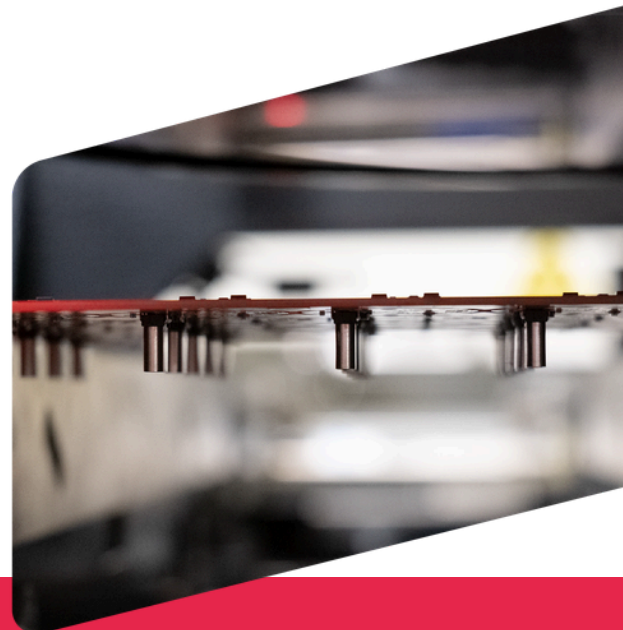
Conveyor speeds up to 1.88 m/min for high-volume SMT production

8-zone top / 8-zone bottom convection heating with 2 cooling zones

Air or nitrogen-capable operation for high-reliability assemblies

Supports PCBs up to 559 mm (22") wide

Energy-efficient design with advanced thermal control and low-maintenance operation



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ALS8730S 3D AOI

High-range, precise, shadow-free 3D height measurement of solder joints and components coupled with simultaneous high-resolution, high-quality 2D images. 100% board coverage including the smallest parts.

Ultra-fast inline inspection with <600 ms per field of view

100% 3D optical inspection for improved defect detection and process control

Detects placement, polarity, solder, and component quality issues automatically

CAD-driven auto-programming with integrated OCR and barcode verification

Supports large PCBs and fine-pitch components for high-reliability electronics manufacturing



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ERSA VERSAFLOW ONE SELECTIVE SOLDERING MACHINE

Top quality with a compact footprint - the selective soldering machine VERSAFLOW ONE is the new entry into the portfolio of ErsafLOW inline selective soldering systems. The system combines proven ErsafLOW DNA and customer-oriented option structure with high availability at extremely attractive acquisition as well as operating costs.

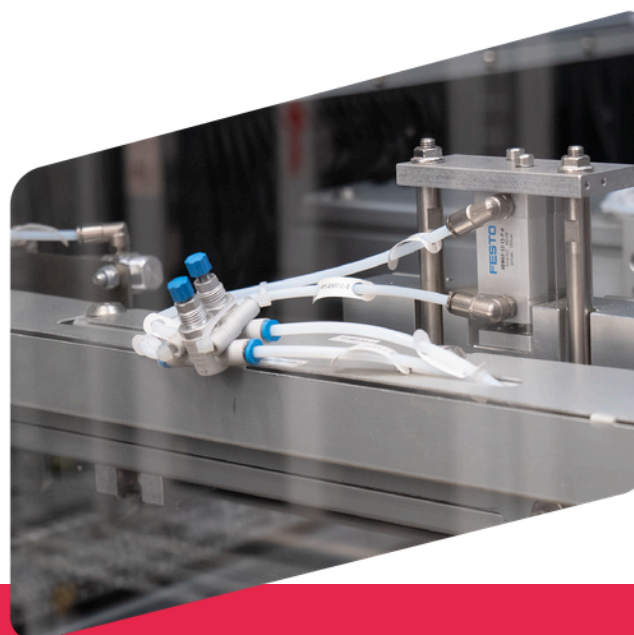
Automated inline selective soldering for repeatable, high-quality through-hole assembly

Processes up to 4–10 PCBs simultaneously (configuration dependent) for increased throughput

Precision mini-wave technology with intelligent multidrop fluxing

CAD-assisted programming for rapid setup and reduced engineering time

Optimised for high-mix, high-reliability electronics manufacturing



BITBOX EQUIPMENT LIST

(Last Updated 21/01/26)

Reviewed by Operations, Sales, and Engineering

SMT Pick and Place	Eurolacer IINEOii 185 & 685 with electrical testing, smart feeders, gun style feeders, stick feed & matrix tray, free form feeder, barcode traceability. Offline vision for odd component teaching.
PCB Paster Printer	Speedprint with Advanced Vision Intelligence
Paste Inspection	2D print inspection
Reflow	Heller 1826 Mk 7 (8 heated zones)
AOI	ALS8730S 3D AOI, offline review stations and barcode panel link traceability
Selective Solder	Ersa Versaflow One, dual solder pot add on, laser warpage measurement
Board Handling	SovTech
PCB	Component size 01005 - 50mm, BGA 50mmx50mm PCB max 460mmx460mm, IPC: 40,000 cph, component height = 35mm (oven limited), Accuracy ~ +/- 35um for QFPs, ~ +/-60 um for chips
Supported Materials	Lead-free, aluminium PCB, flex, rigid-flex
Volume	Prototype / low / medium
TH Mech	Metcal solder stations, easy cut 100 nibbler, FKN systek V-Score, vodex cabinets, semi-automated radial lead crop, wire mods and other modifications
Rework	PDR, BGA removal, hot plate etc
Box Build	Sub Assembly, wiring, cabling, chassis build
Test	Firmware programming, test fixture design, environmental stress testing
Conformal Coating	Brush application in-house, subcontracted clean + spray con coat
Potting	We offer a range of potting solutions, which will be tailored to customer requirement, (currently manual, but could be automated with large projects)
Nitrogen Generator	Current set up allows nitrogen feed to selective soldering process only
Compressed Air	2 x natural air compressors. One feeding the shop floor, the other feeds the N2 Gen
Oven Baking	Several convection ovens sed for component & PCB baking prior to assembly. Ovens also used for cycle testing / environment testing of finished product
Drystore Cabinets	Xtreme series 4 bay
Tape and Reeling	Subcontracted T&R facility. Otherwise we have a free form feeder.

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Vacuum Sealing	In house machine
Traceability	All components consumed in SMT logged against serial number and panel linked at AOI
Supporting Processes	NPI, rapid prototyping, supply chain and sourcing, programming and configuration, repair and rework, 8D, quality management, quick turn RMA
Regulatory Approval	ATEX, UKCA, CE, UL review
Quality	ISO9001:2015 certified, IPC 600/610/620/7711
Software Tools	Cadence Allegro, Cadence Orcad, Altium, GC Preview, Luminovo, 123 Insight MRP System
Hardware Engineering	Schematic capture, PCB design and layout, signal and power integrity analysis, DFManufacturing, DfAssembly, DFTTest, Component obsolescence support High speed digital design including DDR-2, DDR-3, DDR-4 memory interfaces, high speed USB interfaces etc FPGA design using Verilog and VHDL
Software Engineering	Low level code in C and assembler, FreeRTOS, Zephyr RTOS, embedded Linux and associated bootloaders Experience in C++, Python, Perl, RUST, PHP, SQL, Javascript, CSS, HTML etc
Platforms	Experience with Cortex-M, Cortex-A processors from NXP, ST, Renesas, Atmel, ESP32 from Espressif, AVR, PLC, MSP430 etc
Misc	I2C, I2S, SPI, CAN Bus, LIN Bus, RS232, RS485, RS422, Ethernet, WiFi, Bluetooth, BLE, USB, 2-20mA, LoRa, LoRaWAN, NB-IoT, bespoke communications interfaces

