europlacer
HIGH MIX PRODUCTIVITY

ii-A4



The High Volume Platform

integrated INTELLIGENCE

atom range

ii-RC Software

- A simple and easy-to-use interface
- Ergonomic and intuitive operation

Loading Capacity

- Configurable zones - ii-Feed trolleys (ii-Cart), tape feeder or special feeder



Intelligent Conveyor

- Increase productivity without mechanical stops
- Automatically optimizes board stop position for maximum productivity

The High Volume Platform

The ii-A4 is about raw performance. Deploying four independent gantries, each supporting a single Pulsar pipette head. The ii-A4 pushes placement speeds into six-figure territory for components from 01005 profiles up to 13 x 13mm dimensions and a height of up to 7mm. Intelligent placement routines that include fully optimized pick to place head trajectories drive placement up to 104,000 CPH whilst maintaining Europlacer's acclaimed accuracy. In line with a high-flexibility platform, Europlacer's fastest pick and place machine, the ii-A4 will achieve your highest productivity levels.

Flexibility	▶ ▶
Feeder capacity	▶ ▶ ▶ ▶
Speed	▶ ▶ ▶ ▶

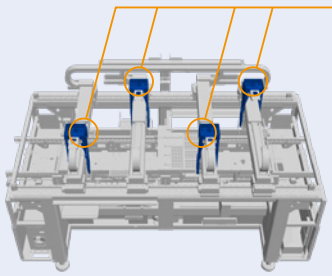
IPC CFX™

IPC-HERMES-9852

Smart Nozzles

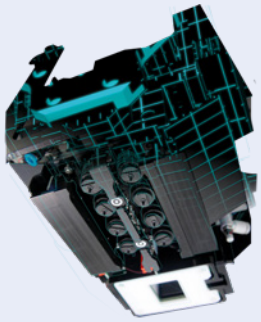
- Reduced set-up time
- Nozzle type identifier
- Nozzles can be placed anywhere





4 Pulsar Heads

- 8 nozzles
- Speed 104,000 CPH*
- Components up to 13 x 13 x 7mm







ii-Tab

- Mobility Solution
- 10 Software applications
- Support for Setup, Stock Management and Production

ii-Cart Intelligent Trolley

- Up to x33 8mm ii-Feed elements
- Accepts any mix of 8, 12, 16 or 24mm tapes

Machine compatible with all feeders in the Europlacer range, see Feeders brochure

* Speed per head: 26,000 CPH - Optimum test conditions in factory

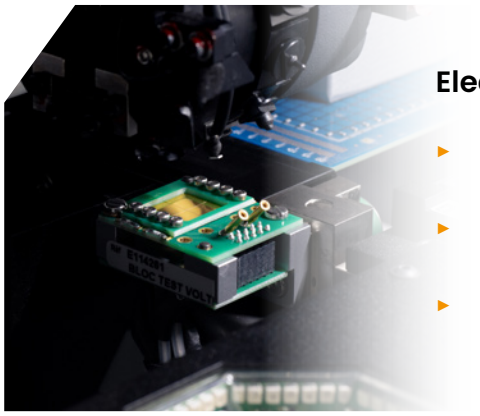


Options



Rear Camera

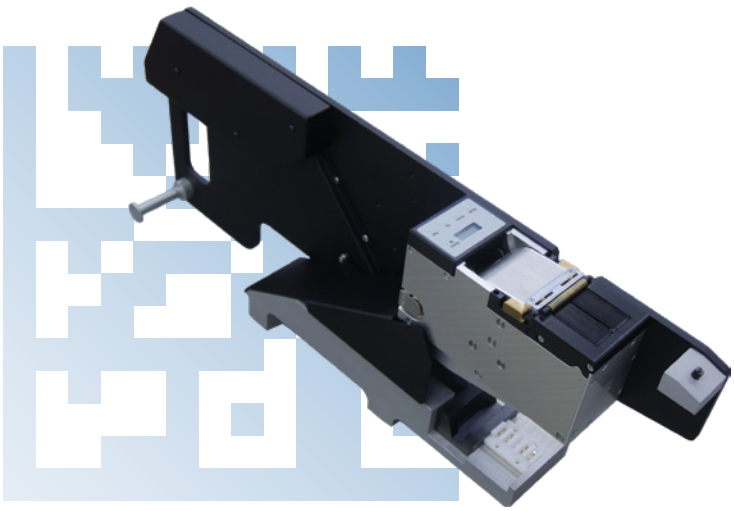
- Scan rear feeder components
- Save time and gain in productivity



Electrical Test

- Passive RLC and Zener diode testing
- Hameg tester from Rhode & Schwarz
- Diode polarity check

Recommended Accessory



Traceability Option With Label Feeder

- Dispensing 1D and 2D labels
- Sticker size from 4 x 8mm to 55 x 55mm
- Add serial number data to traceability option



Benefits

Flexibility

- **Component range**:
  From 01005
  up to 13 x 13 x 7mm
- **Feeder capacity:**
  264 x 8mm feeders

Connectivity

- **ii-Tab:**
  Connect your Pick and Place machine to our mobile solution to help you prepare and monitor your production line.
- **CFX 2.0 compatible:**
  Easily connect the ii-A4 with all CFX compatible equipment in your production line.

Versatility

- **PCB range:**
  From 60 x 45mm
  to 825 x 715mm and 10kg

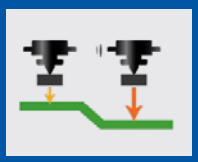
Speed Booster

Increase the speed of your line by adding an ii-A4 in front of a standalone machine.

Features

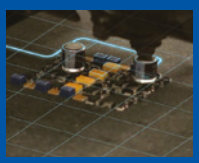
integrated INTELLIGENCE

3DPS

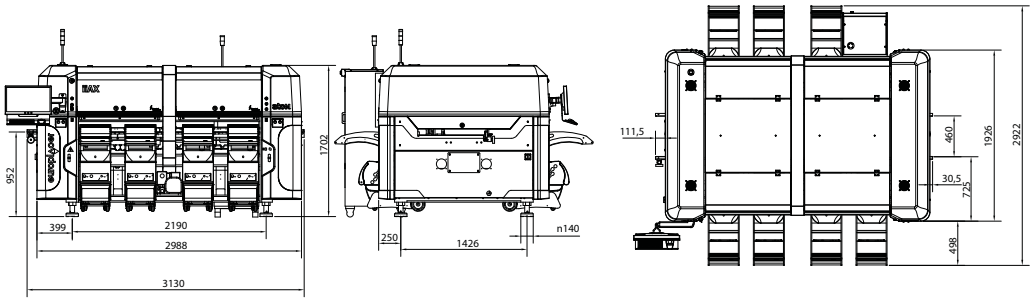


Real-time Z axis adjustment to compensate for any board warpage. No PCB support tooling pin needed.

AAS



Auto Adaptive Sequencing defines placement priorities and rules to avoid collision. It takes into account component and nozzle shapes, characteristics of the PCB and the trajectory of the heads.



Technical Specification

General

Electrical	400V/210V three phase 50Hz/60Hz, 8kVA
Air	7 bar, 30l/min
Noise	<70dB (A)
Working temperature	18°C to 30°C
Humidity	20% to 80% RH non-condensing
Weight	3200 kg (without feeders and packaging)

Pulsar Head Specifications

Technology		Pipette
Nozzle position		8
Placement speed	**Max**	26 000 Cph (takt time)
Placement accuracy	**Chips**	50 µm @3σ Cpk ≥ 1.0
	QFP	22 µm @3σ Cpk ≥ 1.0
Component range	**Size**	Standard: 0.4 x 0.2 mm (01005) - 13 x 13 mm
	Height	Up to 7 mm
	Type	Chips, MELFs, electrolytic capacitors, SO, PLCC, QFP, TSOP, QFN, µBGA, LGA, CSP, Flip chip, through hole and odd-form devices (limited to 13x13mm)
	Min lead pitch	0.3 mm (QFP) / 0.4 mm (µBGA)
	Min lead/ball size	0.15 mm (QFP) / 0.2 mm (µBGA)

ii-A4 Specifications

Configuration		4 x Pulsar Heads 4 x Independant X/Y linear gantries	
		Standard	Options
'Smart' nozzle tool banks		4 x 40 positions in front	Up to 4 x additional 40 positions at rear
Component Analysis		4 x 'fly over' high resolution digital cameras in front	Up to 4 x 'fly over' high resolution digital cameras at rear
Feeders	**Capacity**	264 x 8mm tape feeder position	
	Range	Full range of Europlacer intelligent feeders for 8mm to 104mm tapes, plastic sticks, wide range of matrix trays feeders, sequencer, short tape feeders, bulk feeders, fluxer, label feeder, solder ball feeder	
Board Handling	**Minimum PCB size**	60 mm x 45 mm	
	Max length	825mm	
	Max width	460 mm as standard / 510 mm (without camera+nozzles at rear) / 715 mm (without feeder at rear)	
	Thickness	0.5 mm to 10.0 mm	
	Max weight	3 Kg / (10 Kg as an option)	
	Board clearance	Under clearance: 25mm	
		Edge clearance: 3mm above, 5mm below	
	Board location	Full edge clamping with fiducial correction	
	Conveyor type	Patented intelligent tracking system: without mechanical stopper, fully flexible, real-time status, contributes to throughput optimization	
	Transport criteria	Left to right, fixed front rail, height-adjustable 890mm to 975mm, SMEMA interface	

Options

- 'Fly over' high resolution digital cameras at rear
- Additional 40 position nozzle magazines at rear
- Electrical component testing
- Glue dispenser
- Heavy PCB kit for conveyor (10 kgs)
- Wide PCB kit 510mm (with no camera/ nozzles at rear)
- Wide PCB kit 715mm (with no feeder at the rear)
- Rear operating station

As part of our policy of continuous development, specifications are subject to change without notice.

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