

eurolpacer
HIGH MIX
PRODUCTIVITY

ii-A2



Boost Your Line



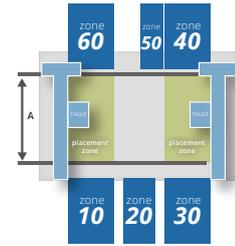
atom
range

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



Boost Your Line

The sole purpose of the ii-A2 module is to bring balance to the SMT assembly line. Equipped with a pair of high-speed Pulsar pipette heads, this machine acts as a chipshooter to take on the workload from other Europlacer machines in the line. With placement speeds up to 52,000cph*, the ii-A2 levels up the line by providing a resource that optimizes the placement process while maximizing the performance and throughput of Europlacer machines downstream. It has a feeder capacity of 162 x 8mm positions and handles components from 01005 profiles to 13mm x 13mm x 7mm dimensions – all in a compact module footprint. The ii-A2 is designed to deliver fast, fully intelligent and highly integrated productivity.

Flexibility ▶▶

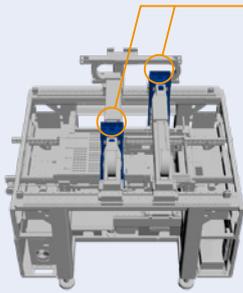
Feeder capacity ▶▶

Speed ▶▶▶▶

NT Feeder

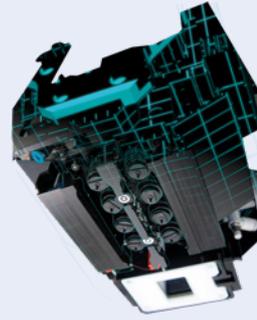
- ▶ From 4mm to 104mm width
- ▶ Component height up to 26.5mm





2 Pulsar Heads

- ▶ 8 nozzles
- ▶ Speed 52,000 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

Smart Nozzles

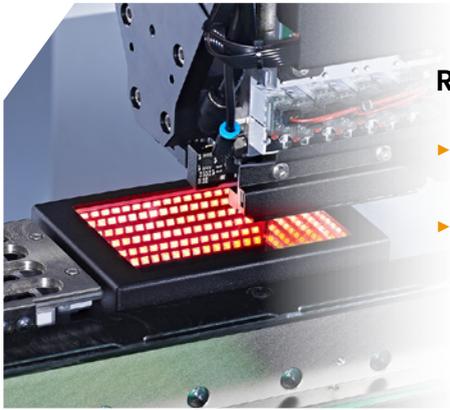
- ▶ Reduced set-up time
- ▶ Nozzle type identifier
- ▶ Nozzles can be placed anywhere



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

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

Options



Rear Camera

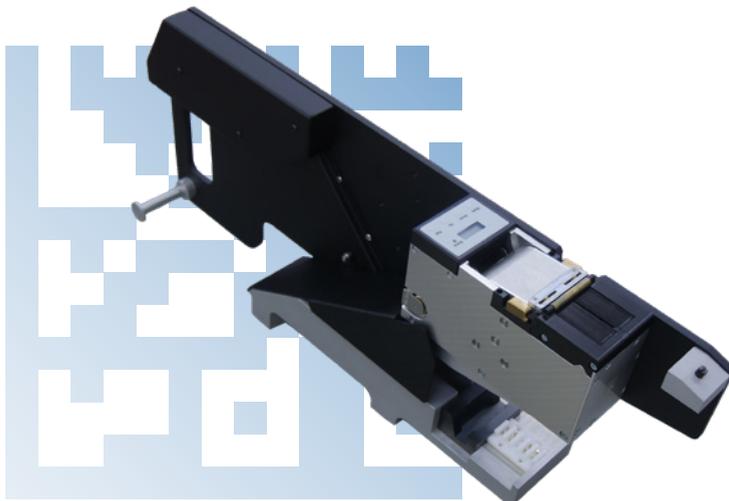
- ▶ Scan rear feeder components
- ▶ Save time and gain in productivity



Dispensing System

- ▶ Glue or paste dispensing
- ▶ 2 different systems: air or auger valve

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:**
162 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 1.7 compatible:**
Easily connect the ii-A2 with all CFX compatible equipment in your production line.



Versatility

- ▶ **PCB range:**
From 60 x 45mm
to 1070 x 715mm and 10kg



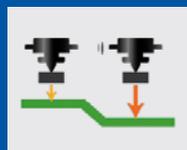
Speed Booster

Increase the speed of your line by adding an ii-A2 in front of a standalone machine.

Features



3DPS

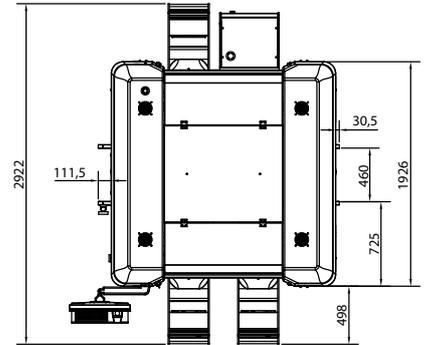
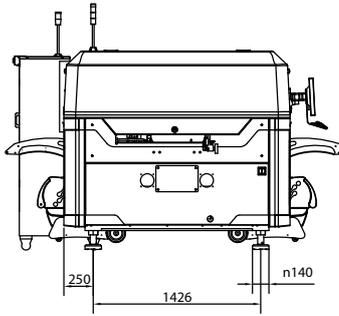
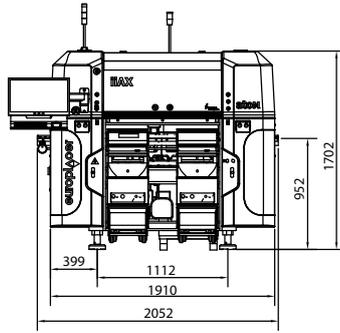


Real-time Z axis adjustment to compensate for any board warpage. No PCB support tooling pin needed.

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	1900 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-A2 Specifications	
Configuration	2 x Pulsar Heads 2 x Independent X/Y linear gantries
'Smart' nozzle tool banks	Standard 2 x 40 positions in front
	Options Up to 2 x additional 40 positions at rear
Component analysis	2 x 'fly over' high resolution digital cameras in front Up to 2 x 'fly over' high resolution digital cameras at rear
Feeders	Capacity 162 x 8mm tape feeder position
	Range Full range of Europlacer intelligent feeders for 4mm 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 1070mm
	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
	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

- ▶ 2 x 'fly over' high resolution digital cameras at rear
- ▶ 2 x additional 40 positions at rear
- ▶ Electrical component testing
- ▶ Glue dispenser
- ▶ Heavy PCB kit for conveyor (10 kgs)
- ▶ 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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