



The Standalone Productive Machine





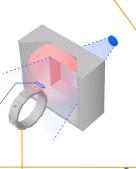
ii-RC Software

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

Embedded Camera

- Hi-Res camera on Tornado head
- Down to 03015m





Intelligent Conveyor

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

The Standalone Productive Machine

The ii-A3 machine combines a pair of Pulsar heads for high placement speed with one eight-nozzle turret Tornado head for flexible production. This combination of heads enables the ii-A3 to reach a maximum speed of 65,650 CPH* and to place a wide range of components from 03015m to 99 x 99 x 34 mm** with a maximum weight of 300g. The ii-A3 is the pick-and-place machine that overcomes the challenge of increasing throughput while maintaining flexibility.

Flexibility Feeder capacity Feeder Speed Feeder Fee



Smart Nozzles

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

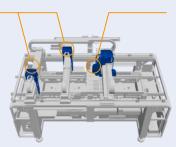




2 Pulsar Heads



- 8 nozzles
- Speed 26,000 CPH*
- Components up to 13 x 13 x 7mm



1 Tornado Head

- 8 nozzles
- Speed 13,650 CPH*
- Components up to 99 x 99 x 34mm**





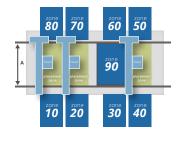


ii-Tab

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

Loading Capacity

- Configurable zones ii-Feed trolleys
 (ii-Cart), tape feeder
 or special feeder
- Central Jedec tray support for large components



ii-Cart Intelligent Trolley

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

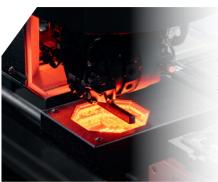
NT Feeder

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

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

- * Optimum test conditions in factory
- ** With 8-nozzle Tornado head, matrix tray distributor with fewer shims, or auto tray loader with specific tray support

Options



Fixed Camera

Allowing the placement of large components up to 99 x 99 x 34mm*



Dispensing System

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



Rear Camera

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



Special Nozzles Magazines

Can hold 4 special nozzles:

- Vacuum or gripper nozzles
- Heavy and large components



Electrical Test

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



Recommended Accessories



Freeform Feeder

- Tray for unpackaged, bulk components
- Identify components regardless of their position



Belt Feeder

- Solution for components supplied in stick format
- SO, SO medium,
 SO large and TSSOP type
 components



Short Tape tray

- Ideal for short tapes 8, 12, 16 and 24mm
- Fiducially aligned for accurate pick up across the whole length of tape



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

Connectivity



ii-Tab:

Flexibility

Component range: From 03015m

Feeder capacity:

264 x 8mm feeders

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-A3 with all CFX compatible equipment in your production line.



Versatility

PCB range:

From 60 x 45mm to 865 x 715mm and 10kg



All-In-One Solution

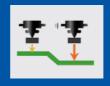
Standalone:

Complete Pick and Place installation with only one machine.





3DPS



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

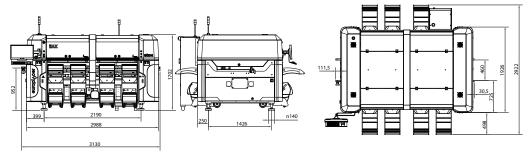
AAS



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.

^{**} With 8-nozzle Tornado head, matrix tray distributor with fewer shims, or auto tray loader with specific tray support





Technical Specification

General			
Electrical	400V/210V three phase 50Hz/60Hz, 8kVA		
Air	7 bar, 30I/min		
Noise	<70dB (A)		
Working temperature	ring temperature 18°C to 30°C		
Humidity	20% to 80% RH non-condensing		
Weight	3000 kg (without feeders and packaging)		

Heads Spe	cifications			
Head name		Pulsar	Tornado	
Technology		Pipette	Turret	
Nozzle position		8	8	
Placement Max speed		26 000 Cph* (takt time)	13 650 Cph* (takt time)	
Placement Accuracy	Chips	50 μm @3σ Cpk ≥ 1.0	46 μm @3σ Cpk ≥ 1.0	
	QFP	22 μm @3σ Cpk ≥ 1.0	22 µm @3σ Cpk ≥ 1.0	
Component Range	Minimum size	0.4 x 0.2mm (01005)	0.3 x 0.15mm (03015m)	
	Maximum size	13 x 13mm	50mm x 50mm as standard; 99mm x 99mm with fix camera option (more on demand)	
	Maximum height	7mm	1 component mode 34mm **	
	Туре	Chips, MELFs, electrolytic capacitors, SO, PLCC, QFP, TSOP, QFP BGA, µBGA, LGA, CSP, connectors, Flip chip, through hole and odd-form devices		
		0.2 mm (QFP) / 0.3 mm (μBGA)		
	Min lead pitch	0.1 mm (QFP) / 0.15 mm (μBGA) with optional fixed camera for turret		
	N 41: 1 /1 11	0.1 mm (QFP) / 0.15 mm (µBGA)		
	Min lead/ball size	0.05 mm (QFP) / 0.075 mm (µBGA) with optional fixed camera for turret		

^{*} Optimum test conditions in factory

^{**} With 8-nozzle Tornado head, matrix tray distributor with fewer shims, or auto tray loader with specific tray support

ii-A3 Spe	cifications			
Configuration		2 x Pulsar Heads + 1 Turret Head		
		3 x Independant X/Y linear gantries		
'Smart' nozzle tool banks		Standard	Options	
		2 x 40 positions in front	Up to 2 x additional 40 positions at rear	
		1 x 60 positions in front	1 x additional special tool bank (for odd form)	
			1 x 40 or 20 positions in front	
		2 x 'fly over' high resolution digital cameras in front	2 x 'fly over' high resolution digital cameras at rear	
Componen	it analysis	1 x 'On-the-fly' high resolution digital camera	1 x fixed camera	
	Capacity	264 x 8mm tape feeder position + equivalent of 5 Jedec matrix tray		
Feeders	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		
	Minimum PCB size	60 mm x 45 mm		
	Max length	865mm		
-	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		
Damed	Max weight	3 Kg / (10 Kg as an option)		
Board Handling	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

- Fixed upward looking camera for larger and very fine pitch components on Turret head
- ▶ '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

- Fixed internal tray holder zone 400mm x 490mm - 5 Jedec tray equivalent
- Articulated internal tray holder zone 400mm x 490mm - 5 Jedec tray equivalent

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

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