

Best In Class For Prototyping





ii-RC Software

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

Intelligent Conveyor

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

Short Tape Tray

- > 8, 12, 16 and 24mm trays available
- Virtual feeder up to 30 components
- Fiducial aligned

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With the ii-N1 in your production line, you never have to say no. The platform is built on Europlacer's unique multi core processing technology which is designed to deal with all surface mount assembly demands, without compromise.

With the introduction of the elegant ii-N1 machine, you will increase productivity and deliver premium performance for any assembly application.

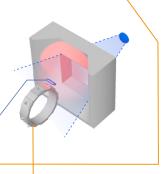
Flexibility Feeder capacity Speed Speed



Embedded Camera

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







Smart Nozzles

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

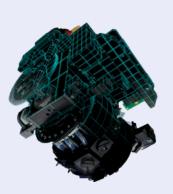


1 Tornado Head





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

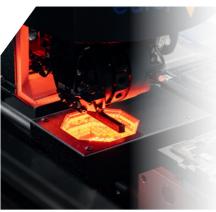
NT Feeder

- From 4 to 104mm width
- Component height up to 26.6mm

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

- * With 12 nozzle position 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 99mm



Dispensing System

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

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



Matrix Tray Distributor

Stores up to 30 trays vertically



Belt Feeder

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



Traceability Option With Label Feeder

- Dispensing 1D and 2D labels
- Sticker size from 4 x 8mm to 55 x 55mm
- Logging the data required for the traceability option





Connectivity

264 x 8mm feeders 10 Jedec central tray



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



Versatility

PCB range:

From 60 x 45mm to 1610 x 600mm and 10kg



All-In-One Solution

Standalone:

Complete Pick and Place installation with only one machine.





3DPS



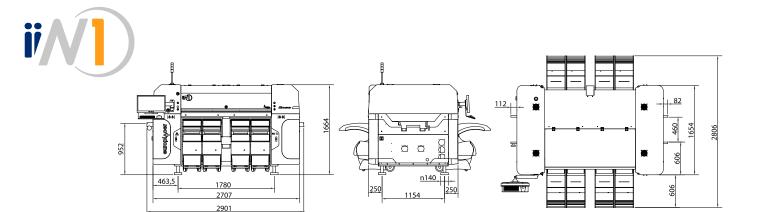
Real-time Z axis adjustment to compensate for any board warpage. No PCB support tooling pin needed.

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.





Technical Specification

General	
Electrical	400V/210V three phases 50Hz/60Hz, 5kVA
Air	7 bar, 301/min
Noise	<70dB (A)
Working temperature	18°C to 30°C
Humidity	20% to 80% RH non-condensing
Weight	2000kg (without feeders)

Component Range	
Types	Chips, MELFs, electrolytic capacitors, SO, PLCC, QFP, TSOP, QFN, BGA, µBGA, LGA, CSP, connectors, Flip chip, through hole and odd-form devices
Minimum size	0.3mm x 0.15mm (03015m)
Maximum size	50mm x 50mm as standard; 99mm x 99mm with fixed camera option (more on demand)
Maximum height	Full revolution of turret 12mm ii-N1 - 1 component mode 34mm** ii-N1 - 1 component mode 31mm*
Minimum lead pitch	0.2mm (QFP), 0.3mm (μBGA) 0.1mm (QFP), 0.15mm (μBGA) with optional fixed camera
Minimum lead/ball size	0.1mm (QFP), 0.15mm (µBGA) 0.05mm (QFP), 0.075mm (µBGA) with optional fixed camera

ii-N1 Capability	
Tact time	ii-NI - 0.257 sec - 13,650cph ii-NI* - 0.234 sec - 15,390cph
Placement accuracy	22μm (QFPs) to 46μm (chips) @ 3 sigma
Placement head	1 rotary turret head on X/Y linear motor gantry ii-Nl with 8 nozzle positions ii-Nl with 12 nozzle positions
Nozzles	1x 60 position 'smart' nozzle tool bank (20 & 40 positions as an option) (Special 4 position tool banks as an option)
Component analysis	'On-the-fly' high resolution digital camera (fixed camera as an option)
Feeder range	Full range of intelligent feeders for 4mm to 104mm tapes, components in plastic sticks and matrix trays
Feeder capacity	264 x 8mm tape feeder positions Maximum 10 Jedec matrix trays

Board Handling		
Minimum PCB size	60mm x 45mm	
Maximum PCB size	Length: 700mm/1070mm/1610mm Width: 460mm (600mm with option)	
Thickness	0.5mm to 10.0mm	
Weight	3kg max. (10kg max. as an option - Please consult us for higher valued weight)	
Under board clearance	25mm	
Board location	Full edge clamping with fiducial correction	
Board edge clearance	3mm above, 5mm below	
Transport criteria	Left to right (right to left optional), Fixed front rail, height-adjustable 890mm to 975mm, SMEMA interface	

- * With 12 nozzle position 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 upward looking camera for larger and very fine pitch components
- Feeder trolley options for bulk change of individual feeders and 'mass' tape feeder ranges
- > 30-position automatic tray loader (sequencer)
- Electrical component testing
- Glue dispenser
- Additional nozzle magazines
- Rear operating station
- Internal fixed tray holder zone 1000mm x 490mm - 10 Jedec tray equivalent (550mm x 490mm - 7 Jedec tray equivalent with PCB length of 1000mm)

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

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