





The High Volume Platform





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.



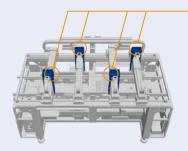




Smart Nozzles

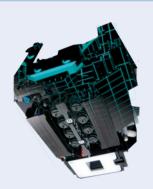
- Reduced set-up time
- Nozzle type identifier
- Nozzles can be placed anywhere





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

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





Rear Camera

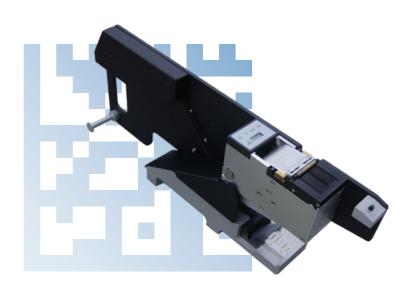
- Scan rear feeder components
- Save time and gain in productivity



Electrical Test

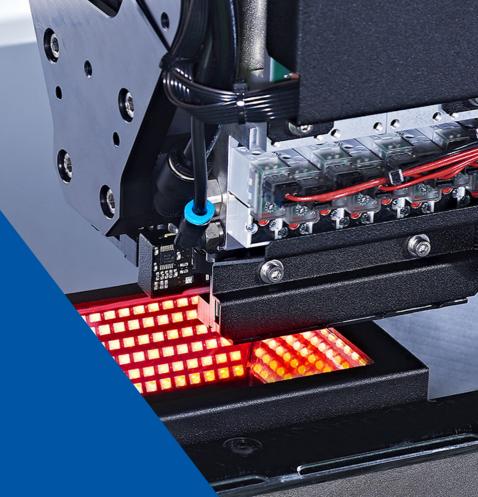
- Passive RLC and Zener diode testing
- Hameg tester from Rhode & Schwarz
- Diode polarity check

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 1.7 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

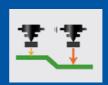


Speed Booster

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







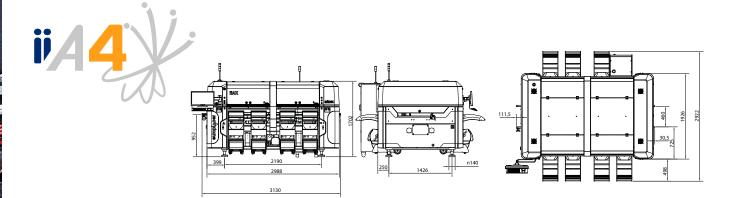
Real-time Z axis adjustment to compensate for any board warpage. No PCB support tooling pin needed.

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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, 301/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)	

Technology		Pipette	
Nozzle position		8	
Placement Max speed		26 000 Cph (takt time)	
Placement accuracy	Chips	50 µm @3σ Cpk ≥ 1.0	
	QFP	22 μm @3σ Cpk ≥ 1.0	
Component range	0!	Standard	
	Size	0.4 x 0.2 mm (01005) - 13 x 13 mm	
	Height	Up to 7 mm	
	Туре	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 Spe	ecifications			
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	
Capacity		264 x 8mm tape feeder position		
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		
Board Handling	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		
	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.

www.europlacer.com

Europlacer UK 30 Factory Road, Upton Industrial Estate, Poole, Dorset BH16 5SL United Kingdom

contact@europlacer.co.uk +44 (0)1202 266500

Europlacer Asia Pacific (excl. China) No. 126-16, Section 4, Zhongxiao East Road, Da'an District, Taipei City 106071

contact-apac@europlacer.com +886 (0)3 356 2778 (Giantec Electronics Inc.)

Europlacer Americas 4640 E. Elwood St., Suite 14, Phoenix, AZ 85040 USA

contact@europlacer.com +1 (480) 672 1100

Europlacer Italy Via Flavia, 35, 34148 Trieste Italy contact@europlacer.it +39 (0)40 832 0563 **Europlacer France** Route de Cholet, 85620 Rocheservière France

contact@europlacer.fr +33 (0)2 5131 0303

Europlacer Spain AV Atenas 127, 19170 El Casar Guadalajara Spain

contact@europlacer.es +34 (0)673 171 249

Europlacer China Floor I, Building I, No.80 Huashen Road, Shanghai, Waigaoqiao, Free Trade Zone, 200131, China

contact-china@europlacer.com +86 (021) 5868 3500

Europlacer Deutschland GmbH Sebastian-Kneipp-Strasse 41 60439 Frankfurt am Main Germany contact@europlacer.de

