











resterday's challenge to combine speed and flexibility is now overcome thanks to the innovations brought by Europlacer in the new atom platform.

11





The *ii-A3* machine hosts a pair of pioneering Pulsar pipette heads for high-speed placement matched with a single eight-nozzle Tornado turret head for agile flexible mounting. In *ii-A3*, they join forces under intelligent software control to deliver optimum throughput at placement speeds up to 64,000cph. Yet *ii-A3* handles the broadest range of components with ease, from 01005 profiles to oddform parts up to 100mm and a weight of 300 grams. *ii-A3* is the placement machine that responds to the need to increase production rates for high margin products, where a lack of flexibility is not an acceptable compromise.

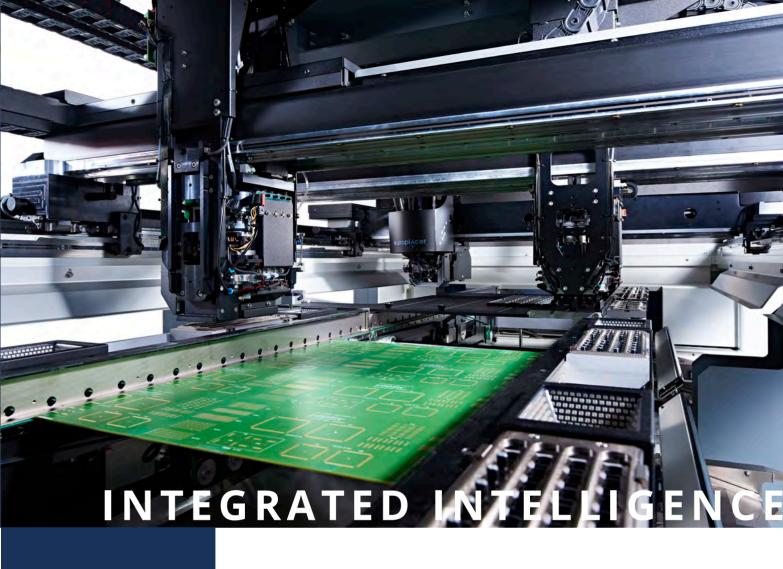


The *ii-A4* is all about raw performance. Deploying four independent gantries, each supporting a single Pulsar pipette head, *ii-A4* pushes placement speeds into six-figure territory for devices from 01005 profiles up to 13x13mm dimensions and a height up to 7mm. Intelligent placement routines that include fully-optimized pick-to-place head trajectories drive placement up to 100,000cph and maintain Europlacer's acclaimed accuracy. In line with a high-flexibility platform, *ii-A4* will achieve productivity levels never seen before with Europlacer solutions. *ii-A4* is simply Europlacer's fastest placement machine.

## LESS WEIGHT, MORE SPEED

Innovations in design aspects and use of materials in the structure of the atom platform reduce weight in performance-critical areas, like the moving mass of gantries and placement heads. Extruded y-axis gantries trim 30% off the mass of their cast counterparts. With lightness comes agility. In atom platforms, gantries are driven in the x-axis at both ends simultaneously, using synchronized linear motors with precision encoders that total control over mechanical deflection risks under high-speed motion and 2g acceleration movements.

The head geometry of the pioneering Pulsar pipette heads helps to reduce z-axis moving mass to just 50 grams. Such light weight allows accelerations up to 4g. Up to eight machine vision stations are strategically positioned within the atom platform structure. During the pick-to-place trajectory, Pulsar heads fly over high-resolution cameras mounted in these stations.



## **OPTIONS**

Offline preparation

**Stock Management** 

**Full Traceability** 

**PROMON Software** 

Automatic conveyor width adjustement

Paste & glue dispenser

Heavy PCB kit

Large PCB kit

High resolution fixed camera

Electrical tester

Barcode feeders

**Bulk feeders** 

Ball feeders for BGAs

Flux feeder & PoP processing

Tray sequencer

With its high placement speeds, huge capacity, impressive flexibility and extensive range of options, the atom platform is all about maximizing productivity.

On-machine inventory capacity remains industry-leading at 264 x 8mm reels plus an optional automatic 30-tray sequencer. *ii-A3* can accommodate internal waffle tray options. With these vast component resources, product changeover is fast and easy.

Intelligent feeder technology used across all Europlacer platforms is immediately compatible with all atom platform configurations. Fast feeders enable the exceptional placement speeds, while broad compatibility allow the Europlacer product range to evolve without impacting previous investments in feeders and accessories.

atom is the first Europlacer platform to feature a new intelligent conveyor system. This patented technology eliminates mechanical board stops. Instead, machines in the atom platform range can stop the board at any position under software control. It delivers another incremental step in placement performance by automatically optimizing head travel paths during pick and place cycles. It also enables a long board handling mode, allowing the *ii-A3* and *ii-A4* machines to accommodate boards over 2 meters in length.







SPECIFICATIONS	<b>ijДЗ</b> ;)/̈́	<b>ï∕44</b> )∕;
COMPONENT RANGE	01005 TO 50MM X 50MM	01005 TO 13MM X 13MM
WITH FIXED CAMERA OPTION	99MM X 99MM (MORE ON DEMAND)	
MAX COMPONENT HEIGHT	34M M	7 M M
STANDARD FEEDERS	4MM TO 104MM TAPES	4MM TO 104MM TAPES
STANDARD FEEDERS	STICK, TRAY	STICK
SPECIAL FEEDERS	BULK, LABEL, SOLDER BALL	BULK, LABEL, SOLDER BALL
FEEDER CAPACITY	264 POSITIONS X 8MM	264 POSITIONS X 8MM
INTERNAL FEEDERS	MATRIX TRAYS	
PLACEMENT HEADS	2 X PULSAR HEADS. 1 X 8-NOZZLE TORNADO HEAD	4 X PULSAR HEADS
MAXIMUM PCB SIZE	2059MM X 715MM*	2099MM X 715MM*
MAX PLACEMENT RATE	UP TO 65,000CPH	UP TO 100,000CPH
IPC PLACEMENT RATE	49,800CPH	78,000CPH
PLACEMENT ACCURACY	22MM (QFPS) - 46UM (CHIPS) @ 3 SIGMA	22MM (QFPS) - 50UM (CHIPS) @ 3 SIGMA

\* UNDER CERTAIN CONDITIONS

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

## europlacer Surface Major Intelligence

Europlacer Americas
4640 E. Elwood St.
Suite 14
Phoenix, AZ 85040
USA
contact@europlacer.cor

Europlacer Asia Pacific
No. 10, Lane 3, Anzhong St.
MIT Industrial Park,
Luzhu District,
Taoyuan City, Taiwan 338
contact-apac@europlacer.com

Europlacer China
Floor 1, Building 1
No.80 Huashen Road,
Shanghai Waigaoqiao
Free Trade Zone,
P.R.China 200131
contact-china@europlacer.com

+86 (021) 5868 3500

Europlacer France
Route de Cholet
85620 Rocheservière
France
contact@europlacer.f
+33 (0)2 5131 0303

Europlacer Germany
Im Böning 24
63695 Glauburg
Germany
contact@europlacer.de
+49 (0)60 419 692 300

Europlacer Italy
Via Flavia, 35
34148 Trieste
Italy
contact@europlacer.i
+39 (0)40 832 0563

Europlacer Spain
AV Atenas 127
19170 El Casar
Guadalajara
Spain
contact@europlacer.es

+34 (0)673 171 249

Europlacer UK
30 Factory Road
Upton Industrial &
Poole , Dorset BH
UK
cer.es contact@europla

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