europlacer
Surface Mount Intelligence
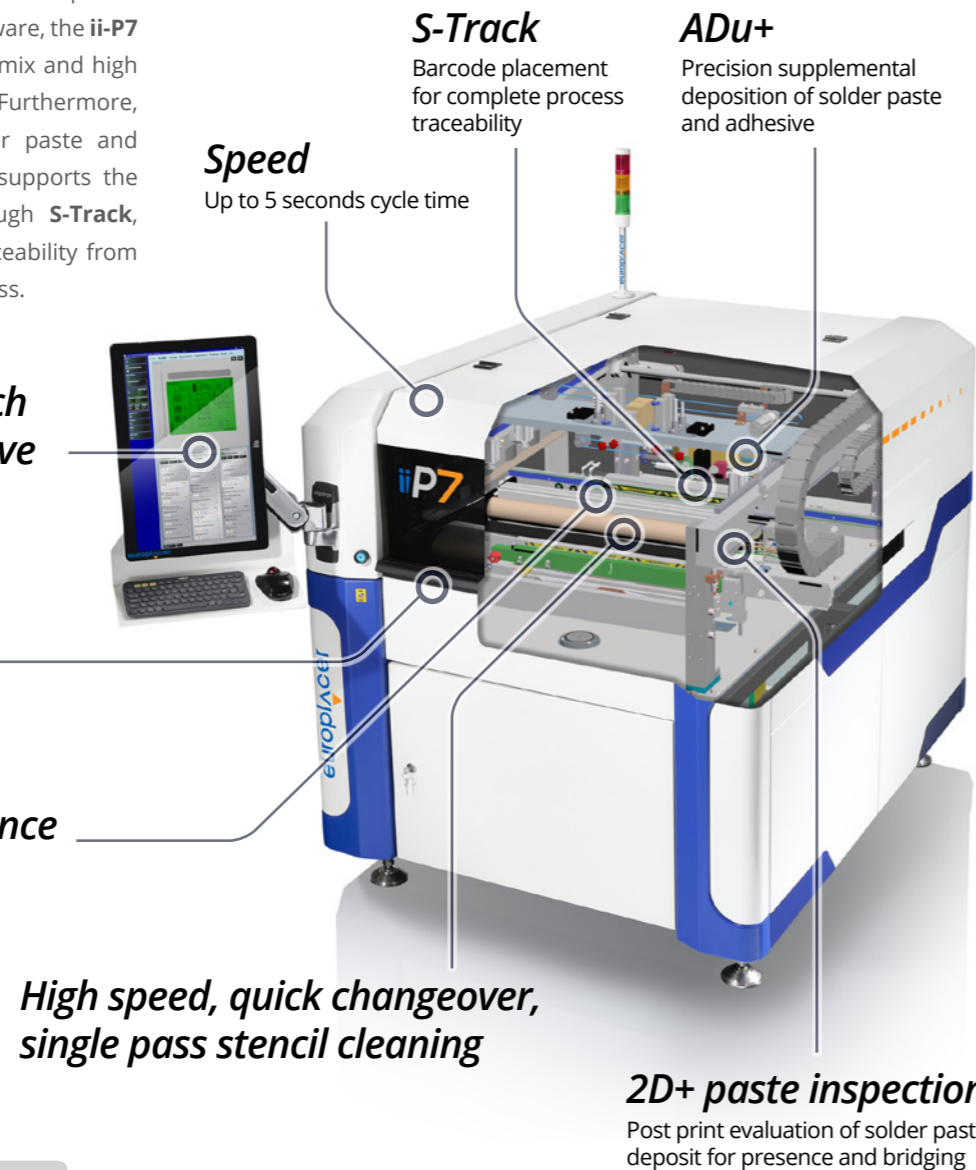
Advanced Printing Solutions

ii P7

The Europlacer **ii-P7** is a top-tier screen printer renowned for its exceptional performance and unique features. It incorporates 1-micron linear encoders on every axis, ensuring consistent precision to deliver perfectly defined prints. Controlled by our advanced **ii-PS** software, the **ii-P7** seamlessly integrates into both high mix and high volume production environments. Furthermore, it provides functionalities for solder paste and adhesive dispensing via **ADu+** and supports the application of barcode labels through **S-Track**, enabling comprehensive process traceability from the very start of the production process.

S-Track
Barcode placement for complete process traceability

ADu+
Precision supplemental deposition of solder paste and adhesive

Speed
Up to 5 seconds cycle time

Monitor with touch screen and intuitive ii-PS software

SmartCal²
60 seconds full calibration

Under PCB clearance
30mm underside component

High speed, quick changeover, single pass stencil cleaning

2D+ paste inspection
Post print evaluation of solder paste deposit for presence and bridging

CFX & Hermes compatibility
Latest industry communication protocols

IPC CFX™ QPL LISTED
IPC-HERMES-9852

SmartCal²

In just 60 seconds, the **SmartCal²** system performs a comprehensive analysis of numerous critical data points. This includes localized camera scaling of pixels per millimeter, rotation and offset calibration as well as meticulous table Z deviation assessment. Notably, **SmartCal²** has significantly enhanced its data gathering capabilities, now collecting a remarkable 88% more data points to guarantee the utmost alignment accuracy and repeatability.
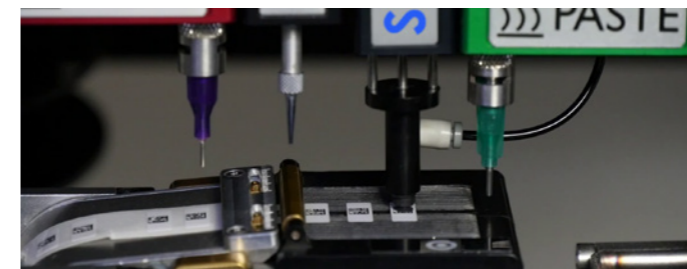
ADu+

The **ii-P7** screen printer can deploy the unique **Automatic Dispense Unit** (**ADu+**) to dispense a wide range of media including paste and glue.

SPI closed loop

Enables neighboring SPI machine feedback to adjust printer process parameters

S-Track

S-Track allows the placement of barcode labels anywhere on the PCB after printing. This introduces traceability earlier in the line.
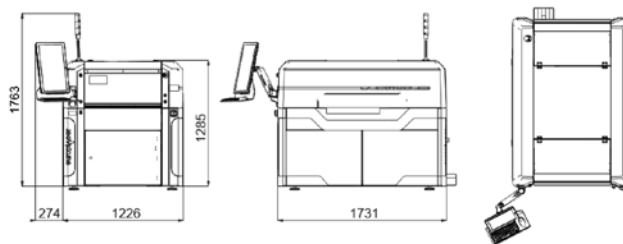
Velocity / Velocity+

A software upgrade to **Velocity** mode offers a 7-seconds cycle time for the efficiency of your production line. **Velocity+** pushes it to an even quicker 5-seconds cycle time with the same level of accuracy.

BENEFITS

Machine simplicity
- Ultra low maintenance
- Fast set-up
- Low cost of ownership

High flexibility
- Traceability: **S-Track** Barcode Placement
- Post print additive deposition of paste and adhesive
- Prototyping with **ADu+**
- Large Print Area

Accuracy
- Exceptional repeatability 20µm @ 6 sigma 2Cpk
- Dual Roving camera for a perfect board and stencil alignment

ii-Tab management
(coming soon)
- Real time monitoring of critical production data
- **CFX** interface

Warranty
- 5 years parts warranty*

iiP7

TECHNICAL SPECIFICATIONS

PCB Specifications

Max board size	610mm (x) x 515mm (y)
Min board size	45mm (x) x 45mm (y)
Maximum PCB weight	1Kg (2.2lb)
Max PCB thickness	Up to 8mm (0.2") including 1% warpage
Min PCB thickness	0.2mm (0.315")

Software

User interface	22" touch screen monitor
Operating system	Microsoft Windows™ 10 or higher

Facilities

Power consumption	13 Amps
Power supply	110V – 240V
Air supply	6 bar clean air supply
Air consumption	1.4 litres per cycle without clean, 16 litres during USC
Operating temperature	10°C to 35°C (50°F to 95°F), humidity 30% to 50% relative humidity (non condensing)
Weight	650Kg
Crated weight	800Kg
Machine dimensions	1226mm x 1731mm x 1285mm (L x W x H)

Printer Specifications

Underside component clearance	30mm
Underside edge clearance	5mm
Minimum board edge clearance	3mm
Machine alignment repeatability	12.5µm @ 6 sigma 2Cpk
Full process repeatability	20µm @ 6 sigma 2Cpk
Max print area	610mm (x) x 515mm (y)
X/Y PCB alignment	± 5mm
Stencil image	Front and centre dedicated
Stencil load/unload	Fully automatic (standard)
Stencil frame size (max)	736.6mm (29") x 736.6mm (29") max frame height 40mm
Stencil frame size (min)	584mm (23") x 584mm (23") max frame height 40mm
Squeegee pressure	1-20Kg
Squeegee control	Pneumatic control using proportional valve
Print speed	5-250mm/sec

PCB separation speed	0.1-20mm/sec
Print modes	Print/print, flood/print, print/flood
Transport direction	Right-left, left-right, left-left, right-right
Cycle time	9 seconds standard. 7 and 5 seconds upgrade. Excludes process elements.
Up/down line protocol	SMEMA, Hermes
SPI closed loop	Feedback loop with 3rd party SPI machines
Stencil paste roll inspection	Automatic validation of paste for defect prevention (standard)
PCB support	Magnetic tooling pins, Laser guided position assistance optional. 3rd party solutions available.
Camera field of view	8mm by 10mm
Camera system	Dual roving camera, Look down/look down
Number of fiducials	Unlimited
Fiducial size	0.5 – 5mm

OPTIONS

- 2D paste inspection
- **2D+** paste inspection with bridge detection
- Statistical Process Control (SPC)
- Laser guided tooling
- Snugger PCB edge clamp
- 3rd party tooling solutions available
- Automatic paste dispenser

- **Velocity** 7 secs plus print process
- **Velocity+** 5 secs plus print process
- **ADu+** Post print deposition of glue and paste
- Product set up verification
- 3rd party SPI communication loop
- **S-Track** Bar code placement

- Product Process Traceability
- Single Pass under screen cleaner
- **ii-Tab** Real time monitoring
- **CFX**

* With maintenance agreement

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