europlacer
HIGH MIX PRODUCTIVITY

ii-P7

Advanced Printing Solutions

integrated
INTELLIGENCE

iiprint

Speed

As fast as 5 seconds cycle time

Under PCB Clearance

30mm underside component

S-Track

Barcode placement for complete process traceability

Monitor With 22" Touch Screen and Intuitive ii-PS Software

SmartCal2

90-second full calibration

CFX & Hermes Compatibility

Latest industry communication protocols

IPC CFX QPL LISTED

IPC-HERMES-9852

2D+ Paste Inspection

Post print evaluation of solder paste deposit for presence and bridging

Single-Pass Cleaning System

- Wet/Dry/Vacuum in one cycle
- Low paper and solvent sensor
- Cassette paper change system (Optional)

Advanced Printing Solutions

The Europlacer ii-P7 is an industry-leading screen printer renowned for its exceptional performance and unique features.

It incorporates 1-micron linear encoders on every axis delivering a consistent print, perfectly defined each time. The ii-P7 is controlled by our advanced ii-PS software and compliments both high-mix and high-volume production environments.

The ii-P7 SmartCal2 calibration system ensures perfect alignment between the PCB and the stencil. An efficient single-pass under screen cleaner will help to save time at the start of the process.

Solder paste and adhesive dispensing is enhanced via Europlacer's ADU+ which coupled with the application of barcodes with S-Track brings full traceability to your production line from the very start of the production process.

Key Features

ADu+

Precise solder paste and adhesive deposition

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 with **ADu+**
- Ideal for prototyping
- Large print area
- Faster quick-change cassette system
- Quick Changeovers

Accuracy

- Exceptional repeatability 20µm @ 6 sigma 2Cpk
- **SmartCal2** Dual roving camera for perfect board and stencil alignment

Warranty

- 5 years parts and 2 years labor warranty*

SmartCal²

In just 90 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 Advanced Dispense unit (ADu+) to dispense a wide range of mediums including paste and glue.

PDu

The Paste Dispense unit, or PDu, allows for controlled amounts of solder paste to be automatically applied to the stencil. Paste can be dispensed from 600g tubes at the beginning, or during a production run.

S-Track

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

SPI Closed Loop

Enables neighboring SPI machine feedback to adjust printer process parameters.

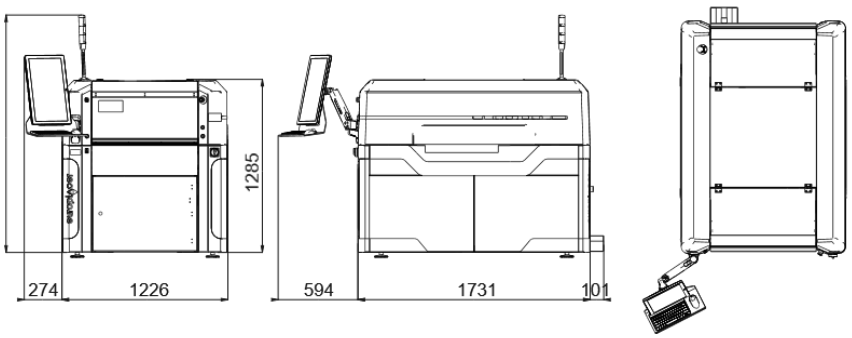
Velocity / Velocity+

A software upgrade to Velocity mode improves cycle time from 9 to 7 seconds for the efficiency of your production line. Velocity+ pushes it to an even quicker 5-second cycle time with the same level of accuracy.

Single-Pass Cleaning System

The Wet/Dry/Vacuum cycle is performed in a single pass, making cleaning faster, more efficient and more economical (less consumables: paper, solvent). Paper and solvent level sensors allow you to anticipate maintenance requirements. Paper change per cassette (20 or 24") takes just 14 seconds.

iiP7



Technical Specification

PCB Specification

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 (0.315") including 1% warpage
Min PCB Thickness	0.2mm (0.008")

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-second standard. 7-second and 5-second available via 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

- Single-pass cleaning system (Wet/Dry/Vacuum cycle in a single pass) - Paper change system for single-pass cassette cleaning (20 or 24")
- 2D paste inspection
- 2D+ paste inspection with bridge detection
- Statistical Process Control (SPC)
- Laser guided magnetic tooling pins
- Snugger PCB edge clamp
- Advanced 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 barcode
- 3rd party SPI communication loop
- S-Track barcode placement
- Product process traceability
- Single pass under screen cleaner
- ii-Tab real time monitoring
- Tooling collision sensor
- PDu - Paste dispense unit - dispense paste onto the stencil

* Pending proper maintenance

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

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