

FINEPLACER[®] micro hvr

High volume rework station



advanced rework

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FINEPLACER[®] micro hvr is a cost effective, fully-automated rework station, offering a high level of flexibility.

This award winning system is targeted for production environments where yield is crucial.

Highlights

- Placement accuracy of 10 μm @ 3 sigma
- Component sizes from 0.25² mm² to 80² mm²*
- Board sizes up to 350 mm x 260 mm*
- Closed loop force control
- Fully automatic operation and soldering process
- Precise non-wearing xy planar table
- Traceability support with open data interface structure
- Flexible, cost effective performance

Features

- Automated pattern recognition, alignment and soldering
- Overlay vision alignment system with fixed beam splitter
- Integrated Process Management (IPM)
- Adaptive process library
- Live process observation camera

Benefits

- Full automatic, user independent process
- Outstanding placement accuracy and instant operation without adjustments
- Synchronized control of all process related parameters: force, temperature, time, flow, power, process environment, light and vision
- Fast and easy process development
- Immediate visual feedback reduces process development time

Technologies

- Component removal
- Site cleaning
- Dispensing
- Dipping
- Soldering
- Desoldering

Applications

- Soldering of:
 - BGA, μ BGA/CSP, QFN, PoP, QFP, PGA,
 - Small passives down to 0201
 - RF shields, RF frames
 - Connectors, sockets
 - Sub assemblies, daughter boards
 - Flipchip (C4)
- Single ball rework

Technical Specifications

Placement accuracy:	10 μ m @ 3 sigma
Field of view (min) ¹ :	2.5 mm x 1.9 mm
Field of view (max) ¹ :	17.5 mm x 13 mm
Component size (min) ¹ :	0.25 mm x 0.25 mm
Component size (max) ¹ :	90 mm x 80 mm
Board size (max) ¹ :	350 mm x 260 mm
X-travel / resolution:	380 mm / 0.64 μ m
Y-travel / resolution:	155 mm / 0.64 μ m
Z-travel / resolution:	8 mm / 0.8 μ m
Theta travel / resolution:	$\pm 6^\circ$ / 1.0 m $^\circ$
Power (reflow module):	900 W
Temperature ramp rate:	1 K/s - 50 K/s
Flow range:	10 NI/min - 70 NI/min
Power (board heater):	1600 W
Heated area (max):	350 mm x 250 mm

* depending on configuration

¹ standard value, other values on request

Modules

Board heater
 Board temperature sensor (IR)
 Solder removal module
 Automatic tool changer
 RFID reader
 Barcode scanner
 Motorized flux station
 Dispenser support
 Process video module

Notes:

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