

MPM UP-3000 HiE

Rapid Product Changeover

FEATURES

3D Verification
Automatic Pin Placement
Vacuum Stencil Wiper (with Solvent Option)
Variable Print Direction
Balanced Control Print Head (Prohead)
Vision alignment (cognex 5000)
Paste Dispenser



Machine Dimensions

Printer:

W: 63.0 in. (1600.2 mm)
D: 89.0 in. (2260.6 mm)
H: 10.0 in. (1524mm + 254 mm)

Conveyor:

63.0 in. (1600.2 mm)

Approximate Shipping Weight

3,400 lb (1542.24 kg)

Pneumatic Requirements

90 psi @ 10 cfm (1323 bar at 283.2 L/min) -
125 psi @ 10 cfm (1837.5 bar at 283.2 L/min)

Performance

Alignment Repeatability:

+/-0.0005 in. (0.010 mm) at 6 Sigma
verified with glass plate capability test

Alignment Accuracy: +/- 0.001 in. (0.025 mm)

Cycle Time: < 7 sec. Including Transport &
vision. (Alignment excludes print stroke)

Board Handling

Board Size:

Max- 22in. x 20in. (559mm x 508mm) at 0°
Min- 2in. x 1in. (50.0mm x 50.0mm)
(16 in. or greater board lengths require
dedicated workholders)

Thickness:

0.015 in. to 0.500 in. (0.381 to 12.7 mm)

Underside Component Clearance:

1.0 in. (2.54 cm)

Machine Interface Transport Speed:

Programmable up to 40 in./sec
(101.6 mm/sec)

Electrical Requirements

200 to 240 VAC at 60 Hz +/- 5% 30 Amps

Print Parameters

Snap Off: -0.050 in. to +0.1 in. (-1.3 to 2.5 mm)

Squeegee Pressure:

Balanced Control- 1 lb. to 60 lb. (0.4 kg to 27 kg)

Self-Level Head- 1 lb. to 50 lb. (0.4 kg to 22.5 kg)

Squeegee Speed:

0.25 in/sec to 12 in/sec
(6.35 mm/sec x 305 mm/sec)

Vision Parameters

Fiducial Method: 2 to 5 models standard fiducials or pads

Fiducial Size: 0.02 in. to 0.1 in (0.5 mm to 3 mm)

Camera System: MPM unique high speed linear drive
system

Fiducial Teach: Self-teach or CAD download

Transport Height from Floor:

Adjustable 30 in. to
40in. (76.2 mm to 101.6 mm)

Method of Board Support:

Magnetic Pins, Optional Auto Pin Placement

Method of Board Location:

Programmable Over-the-top clam, edge grip
and underside vacuum

Conveyor Configuration:

Factory-Configurable Front or
Rear Rail Justified



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