

# MPM UP-2000



## FEATURES

Patented Automatic Vision Alignment.  
Increased Board Throughput via Optimized Motion Control.  
Rapid Product Changeover.  
Enhanced SPC Reporting for Data Collection and Display.  
Increased PWB Profile Storage (over 400 files)  
Board Files can be Shared with MPM's AP S-Series Printers.  
Board Profile Names, up to 32 Characters.

## OPTIONS

Fully Programmable Paste Dispensing System.  
Integrated Post-Print Deposition Analysis.

## Machine Dimensions

### Printer:

W: 63.24 in. (1606.3 mm)  
D: 46.0 in. (1168.4 mm)  
H: 64.44 in. (1636.78 mm)

### Conveyor:

51.0 in. (1295.4 mm)

## Approximate Shipping Weight

1,500 lb (677 kg)

## Pneumatic Requirements

80 psi @ 4 cfm (1176 bar at 113.28 L/min) -  
125 psi @ 4 cfm (1837.5 bar at 113.28 L/min)

## Performance

### Alignment Repeatability:

+/-0.0005 in. @ 6 Sigma  
verified with glass plate capability test

### Alignment Accuracy: +/- 0.001 in. at 6 Sigma

Cycle Time: < 11 sec. (excludes print stroke)

## Electrical Requirements

115 VAC at 60 Hz 30 Amps  
220 VAC at 50 Hz 20 Amps  
240 VAC at 50 Hz 20 Amps

## Print Parameters

Print Area: 18 in. x 16 in. (457 x 406 mm) (X,Y)

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 Types: All conventional fiducials accepted

Camera System: MPM unique high speed linear drive  
system with patented optics

## Board Handling

### Board Size:

Max.- 20 in. x 16 in. (508 mm x 406 mm)  
Min.- 2 in. x 2 in. (50.0 mm x 50.0 mm)  
(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:

0.50 in. (1.27 cm)  
Optional- 1.0 in. (2.54 cm)

### Machine Interface Transport Speed:

Programmable up to 35 in./sec  
(889 mm/sec)

### Transport Height from Floor:

Adjustable 34.5 in. to  
41 in. (876 mm to 1041 mm)

### Method of Support in Print/Vision Cycle:

Magnetic Pins, Optional Dedicated  
Workholders

### Method of Board Hold-Down:

Underside Vacuum, Y-axis Snuggers and  
Z-axis Clamps

### Conveyor Configuration:

Factory-Configurable Front or  
Rear Rail Justified

### Method of Board Hold-Down:

Underside  
Transport Track Feed Direction: User Definable



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