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MPM UP2000 HIE SPECIFICATIONS

BOARD HANDLING

Minimum/Maximum size	2" x 2" (50.0 mm x 50.0 mm) to 20" x 16" (508 mm x 406 mm) (16" or greater board lengths require dedicated workholder)
Thickness range	0.015" to 0.500"
Underside component clearance	0.50" (1.0" optional)
Machine interface transport speed	Programmable up to 60"/sec (1524 mm/sec)
Transport height from floor	Adjustable 34.5" to 41" (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-Grip fingers
Conveyor configuration	Factory-configurable front or rear rail justified
Transport track feed direction	User definable

PRINT PARAMETERS

Print area	18" x 16" (457 mm x 406 mm) (x,y)
Snap-Off	-0.050" to +0.1" (-1.3 mm to 2.5 mm)
Squeegee pressure (Balanced Control)	1 to 60 lbs (0.4 kg to 27 kg)
Squeegee pressure (Self-Level Head)	1 to 50 lbs (0.4 kg to 22.5 kg)
Squeegee speed	0.25" to 12"/sec (6.35 mm to 305 mm/sec)

VISION

Fiducial method	2 to 5 models standard fiducials or pads
Fiducial type	All conventional fiducials accepted
Camera system	MPM unique high speed ball screw system with patented optics

PERFORMANCE

Vision alignment repeatability	±0.001" (±0.025 mm) at 6 sigma (Cp greater than or equal to 2.0*) verified with glass plate capability test**
Vision Alignment accuracy	±0.001" (±0.025 mm) at 6 sigma (Cp greater than or equal to 2.0*) verified with CeTaQ™ CmController™ capability test**
Cycle time	< 11 seconds (excluding print stroke)

FACILITIES

Power Requirements	Either 115 VAC@60 hz, 30 A or 220 VAC@50 hz, 20 A
Air Supply Requirements***	80 to 125 psi (5.52 to 8.63 bars) at 4 cfm (1.9 L/s) (standard), at 25 cfm (11.8 L/s) (with optional vacuum wiper)
Height (excluding light tower)	64.44" (1636.7 mm) maximum
Depth	63.24" (1606.3 mm)
Width	46" (1168.4 mm)
Weight	1500 lbs (677 kg)
Crated Weight	2500 lbs (1134 kg)

* The higher the Cp, the lower the variability with respect to the process specification limits. In a process qualified as a 6 sigma process (i.e., one that allows plus or minus 6 standard deviations within the specification limits), the Cp is greater than or equal to 2.0.

** The CmController™ test is an optional test that can be preformed on request by a customer prior to the shipment of their printer.

*** Optional vacuum wiper requires 25 CFM (during the vacuum stroke only)

ABOUT SPEEDLINE TECHNOLOGIES

Speedline Technologies is the global leader in process knowledge and expertise for the PCB assembly and semiconductor industries. Based in Franklin, Massachusetts, U.S.A., the company markets five best-in-class brands — Accel microelectronics cleaning equipment; Camalot dispensing systems; Electrovert wave soldering, reflow soldering, and cleaning equipment; MPM stencil and screen printing systems; and Protect global services, support, and training solutions. For more information, visit us at www.speedlinetech.com.

Speedline Technologies maintains an ongoing program of product improvement that may affect design and/or price. We reserve the right to make these changes without prior notice or liability.