

Value leadership redefined.

Class-leading accuracy and repeatability.

Operational simplicity.



MPM

MPM 125[™] Stencil Printer

Affordable Performance

MPM

MPM 125

Reliability, Capability, Flexibility and Simplicity

The perfect union of reliability, capability, flexibility and simplicity, MPM 125 surpasses all the competition in its price/performance class.

Accurate, Repeatable Performance

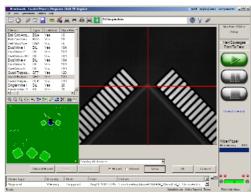
The MPM 125 printer features accuracy and repeatability normally associated with the most expensive, high-end equipment. This unique system proves that performance doesn't have to be sacrificed in a cost-effective system. The 125's ±12.5 micron at 6 sigma accuracy is the result of a precision engineered and integrated system. CANopen motion control architecture (originally developed for the award-winning Accela printer platform) yields exceptional performance in signal communication and high speed motion control while reducing design complexity. The state-of-the-art digital camera, which includes telecentric lenses, advanced optics and lighting techniques, results in unmatched vision performance in both alignment and post-print inspection. Patent-pending designs utilized in the transport and squeegee systems maximize reliability and uptime; and that reduces your cost of ownership.

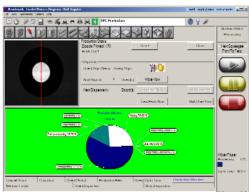
MPM 125. It's no longer necessary to sacrifice performance for price.

The MPM 125 offers advanced, patented technology, high reliability, best in class accuracy, and operational simplicity in a package that sets the standard for value leadership in automated stencil printing.

Advanced Inspection and SPC Tools

The MPM 125 incorporates expanded 2D inspection capabilities, featuring both MPM's patented contrast and texture-based technologies with BridgeVision® and StencilVision™. Pad-level details can be viewed on-screen and device-level results are stored on a per-board basis as part of the powerful SPC program tools. These tools provide line utilization and detailed process information and, when combined with the expanded inspection capabilities, the fastest quantitative post-print, device-level data gathering in the industry.





Easy to Learn, Easy to Use

Low cost of ownership can only be achieved when great performance is augmented by ease of use. MPM 125 is designed with your operators in mind, so it's easy to learn and even easier to use. Speedline's Benchmark™ software provides a convenient graphical user interface within the familiar Windows® operating system. Built-in wizards provide direction for all machine functions, utilities and error recovery.

MPM 125: Affordable Performance

Best in class performance is achieved through best in class technology. The MPM 125 includes all the features and subsystems needed to provide high yields with today's toughest ultra-fine pitch components and lead-free printing requirements. As tomorrow's challenges unfold, the MPM 125's performance will continue to prove its unparalleled value.



Stencil Cleaner

This paper over plenum design, with venturi vacuum, patented roller solvent bar delivery system, and full software control, provides precise wet-dry wipe transition and exceptional cleaning results.

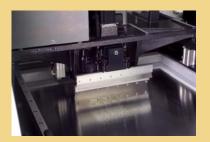


Paste Dispenser

Industry-standard sealed cartridges release precise amounts of solder paste, adhesive, flux, encapsulants, or ink as a clean bead across the stencil. Offers operator friendly, programmable deposition volumes, frequency, and placement.

Programmable Squeegee

Independent, direct motor-driven lead screws for front/rear axes and an integrated compliance routine ensure accurate application of desired force, regardless of variations in squeegee type, length or thickness.



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CANopen Architecture

Rapid signal communication for fast motion control is facilitated in a true multitasking environment to maximize throughput and minimize the number of wires and cables.



Benchmark Software

Designed for ease of use, process flexibility and control, Benchmark features an intuitive interface and instructional wizards to assist with operational tasks. Stepby-step guides and templates facilitate rapid set-up and changeover.

WORLD HEADQUARTERS

16 Forge Park, Franklin, MA 02038 Tel: +1 (508) 520-0083 Fax: +1 (508) 520-2288

www.speedlinetech.com

MANUFACTURING FACILITIES

ACCEL/ELECTROVERT Highway 5 South, Camdenton, MO 65020 Tel: +1 (573) 346-3341 Fax: +1 (573) 346-5554

CAMALOT/MPM

16 Forge Park, Franklin, MA 02038 Tel: +1 (508) 520-0083

Fax: +1 (508) 520-2288

SALES AND CUSTOMER SUPPORT OFFICES

U.S.A.

2541 Technology Drive Ste. 401 Elgin, IL 60124 Tel: +1 (847) 426-4787

Fax: +1 (847) 426-7383

MEXICO Carretera Base Aerea #5850 Km. 5, Edificio 11 Zapopan, Jalisco, Mexico Tel: +52 (3) 818-9017

Fax: +52 (3) 818-9816

EUROPE Speedline Technologies GmbH Im Gefierth 14 D-63303 Dreieich, Germany Tel: +49 (0) 6103-8320 Fax: +49 (0) 6103-832-299

ASIA/PACIFIC

Speedline Technologies Asia Pte Ltd 150 Kampong Ampat, #05-08 KA Centre Singapore 368324 Tel: +65-6286 6635

Fax: +65-6289 9411

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MPM 125 SPECIFICATIONS

BOARD HANDLING	
Maximum Board Size (X x Y)	609.6 mm x 508 mm (24" x 20")
Minimum Board Size (X x Y)	50.8 mm x 50.8 mm (2" x 2")
Board Thickness	0.2 mm (0.008") to
	3.8 mm (0.15"),
	0.8 mm to 5.0mm
	(0.031" to 0.20"),
	up to 6.0mm (0.24")
	without top clamp foils
Maximum Board Weight	4.5 kg (9.92 lbs)
Board Edge Clearance	3.0 mm (0.118")
Underside Clearance	12.7 mm (0.5") standard
	Configurable for
	25.4 mm (1.0")
Board Hold-Down	Fixed top clamps,
	centernest vacuum
Board Support Methods	Magnetic pins
	Optional Gel-Flex, vacuum
	pins, support blocks, or
	Grid-Lok
PRINT PARAMETERS	
Maximum Print Area (X x Y)	609.6 mm x 508 mm
	(24" x 20")
Print Gap (Snap-off)	0 mm to 6.35 mm
	(0" to 0.25")
Print Speed	Up to 305 mm/sec
	(12.0"/sec)
Print Force	0 to 20 kg
	(0 lb to 44 lbs)
Stencil Frame Size	737 mm x 737 mm
	(29" x 29"),
	Adapters available for
	smaller sizes
VISION	
Vision Field-of-View (FOV)	10.6 mm x 8.0 mm
	(0.417" x 0.315")
Fiducial Types	Standard shape fiducials
	(see SMEMA standards),
	pad/aperture
Camera System	Single digital camera -
	patented look up/down
	vision

PERFORMANCE		
Total System Alignment	±12.5 microns	
Accuracy and Repeatability	(±0.0005") at 6 sigma,	
	Cpk of greater than or	
	equal to 2.0*	
Qualification is performed using p	production environment	
process variables; print speed, tal	ble lift and camera	
movement are included in the capability figure.		
Wet Print Deposit	±25 microns	
Accuracy and Repeatability	(±0.001") at 6 sigma,	
	Cpk of greater than or	
	equal to 2.0*	
Based upon actual wet printing w	ith positional accuracy	
and repeatability verified by a 3rd	party measurement	
system.		
Cycle Time	13 seconds standard	
FACILITIES		
Power Requirements	200 to 240 VAC (±10%)	
	single phase @ 50/60Hz,	
	15 A	
Air Supply Requirements	100 psi at 4 cfm	
	(standard run mode) to	
	18 cfm (vacuum wipe)	
	(6.89 bar @ 1.9 L/s to	
	8.5L/s), 12.7 mm (0.5")	
	diameter line	
Height (excluding light tower)	1638.4 mm (64.5") at	
	940 mm (37.0") transport	
	height	
Machine Depth	1593.1 mm (62.72")	
Machine Width	1202.7 mm (47.35")	
Minimum Front Clearance	508 mm (20.0")	
Minimum Rear Clearance	508 mm (20.0")	
Machine Weight	816.5 kg (1800 lbs)	
Crated Weight	1110 kg (2447 lbs)	
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^{*} The higher the Cpk, 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 Cpk is greater than or equal to 2.0.

Specification is subject to change without notice. Please consult factory for specifics.

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.



Knowledge in process