

Precise and flexible **dispensing systems**

MYSmart[™] series MYD10[™]/MYD50[™] in-line dispensers



Introducing the MYD series Fully automated compact dispensing systems

The MYSmart series offers a wide range of in-line dispense solutions together with a comprehensive portfolio of valve technologies. The compact MYD10 enables highly advanced non-contact jetting for enhanced dispensing uniformity, throughput and material utilization. For high-precision applications such as complex chip packaging, the powerful MYD50 platform further boosts productivity with linear motor motion control. The MYSmart in-line dispensing solutions are proven in the most advanced production environments. We have developed our systems to handle a vast array of current and emerging products, assembly fluids and package types.



- Unsurpassed value by combining high end technology with low total cost of ownership.
- 2 From underfill to solder paste the MYD series offers unique jetting and dispensing technologies for enhanced flexibility in high volume manufacturing.
- 3 Built in AVI capabilities for automatic inspection of dispense results.



MYD series automated in-line dispensing systems can handle a wide range of dispensing applications.

FLEXIBLE

MYD series can handle different substrate sizes and compositions to meet specific process requirements. Numerous applications can be achieved with optional features such as tilt and rotate, contact and non-contact heating and dual head configurations.

COST-EFFICIENT

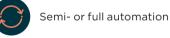
Smaller machine dimensions, high quality build and streamlined mechanical design allow the system to run for longer periods of time with less maintenance and lower downtimes. Our Piezo Jetting technology has been designed with a reduced number of wear parts further reducing the cost of ownership making the MYD series a cost-effective dispensing solution.

IMPROVED PRODUCTIVITY

Precise temperature controls, on-the-fly fiducial search, robust vision algorithms, low motion Z axis and non-contact dispensing result in increased productivity.

Unmatched production value







Low maintenance and long service life

High-precision dispensing volume control

619610500D PCBx12 NV3 KEY APPLICATIONS, CONSUMER ELECTRONICS

MAIN 0

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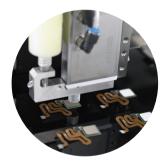
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- Hot melt
- Underfill
- Pin encapsulation
- Edge/corner bonding
- Surface mount package
- Package on package
- •
- SMA

MYD series Cross-industry capable platform

The MYD series automatic inline dispensing system is proven across many industries such as electronics, medical devices, optics and industrial assembly to name a few.

Consumer electronics



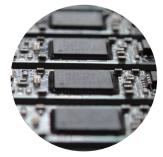


Automotive electronics





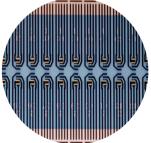
SMT electronics





LED and medical industry





MYD series core components Fully automated compact dispensing

Different types of dispensing valves are available with a wide range of capabilities to optimize your process based on specific materials. For large flow applications, auger valves and positive displacement pumps decrease cycle time while maintaining tight process controls. All jets, valves and pumps are designed with speed, durability and precision in mind.

UNIQUE CAPABILITIES

The MYD jet valves can produce high drop velocity, for compatability with a wide range of fluids and applications.

It is easy to modify process parameters to fine tune the dispensing and achieve an accurate and reliable result.

PRECISE CONTROLS

Closed loop controls and system feedback are key for higher yields. Focus on smart jetting controls, closed loop substrate heating, user specified temperature spot checks and closed loop material dispense are the foundation of quality output.

SIMPLE MAINTENANCE

The MYD jet valves are designed with simplicity and ease of use in mind. Minimal disassembly required and wear parts are easily replaced.



Configurable conveyors. Modular design enables transfer and handling of any PCB, carrier or other unique substrate.



Continuous improvement

Jetting technology that is constantly adapting to new market requirements, enabling more materials, smaller dots, higher accuracy and faster processes.



MYD series **Key features**



Dual lane conveyors

Dual lane your production line and optimizing throughput. Two different jobs can run on each line.



Configurable conveyor stations

Edge clamps, vacuum blocks, vacuum heating and noncontact heating offer all the potential material handling options for efficient dispensing.



Dual valve configurations

Synchronous dual valve, two heads work at the same time for improved productivity and throughput. Asynchronous dual valve, two heads work independently. Different materials can be used on a single product, increasing the functionality of the MYD dispense system.





Tilt options

Pneumatic and electrical tilt and rotate options place fluids in difficult to reach locations. Angle and rotation can be programed for each location for increased flexibility.



Temperature spot check User programmable location to verify the process temperature and return a go/no-go signal.



Automatic visual inspection

AVI, automatic visual inspection, improves inspection quality and helps automate the production line. The AVI can be set to warn, flag and log production results increasing yield traceability and visibility.

Specifications MYD10X/MYD50X/MYD10i/MYD10iL in-line

	MYD10X	MYD50X
FACILITY REQUIREMENT		
Power supply	AC 200~240V,11A,50/60Hz,2.5kW	AC 200~240V,8A,50/60Hz,1.8kW
Air supply	90psi(6bar)	90psi(6bar)
Dimension	770x1200x1450mm(WxDxH)	770x1300x1530mm(WxDxH)
Weight	650kg	1350kg
Standard compliance	CE	CE
MOTION SYSTEM		
XYZ positioning accuracy	XY: ±30um@3σ Z:±10um@3σ	XY: ±25um@3σ Z:±10um@3σ
Repeatability	XY: ±15um@3σ Z:±5um@3σ	XY: ±10um@3σ Z:±5um@3σ
Max speed	1000mm/s(XY)	1500mm/s(XY)
Acceleration	1.0g	1.5g

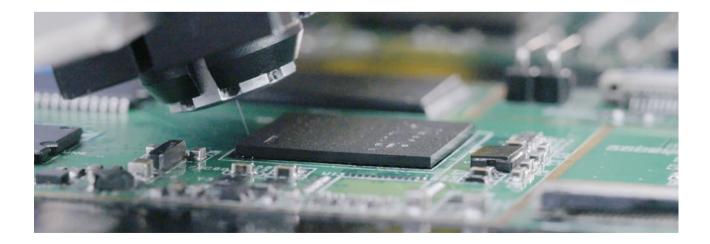
Servo motor

Drive system

Linear motor (XY) / Servo motor (Z)

MACHINE PARAMETERS		
Conveyor payload	3kg	3kg
Conveyor width adjusting range	50~475mm	50~500mm
Max board length	Single heating stage: 350mm Dual heating stage: Left-right 300mm Right-left 255mm	Single heating stage: 350mm Dual heating stage: Left-right 300mm Right-left 255mm
Board thickness	0.5~6mm	0.5~6mm
Operating system	Windows 10	Windows 10
Communication protocol	SMEMA	SMEMA
Mini edge clearance	3mm	4mm
Max top clearance	26mm	35mm
Max bottom clearance	23mm	23mm
Z travel	40mm	40mm

DISPENSE AREA		
Max dispensing area (single lane/dual lane)	350x475mm/350x210mm (WxD)	350x500mm/350x218mm (WxD)
Synchronized dual valve - automatic adjustment (single lane/dual lane)	320x420mm/320x172mm (WxD)	315x405mm/315x160mm (WxD)
Asynchronized dual valve (single lane/dual lane)	290x450mm/290x197mm (WxD)	290x430mm/290x183mm (WxD)
Tilt & rotation (single lane/dual lane)	270x420mm/270x182mm (WxD)	270x410mm/270x173mm (WxD)



	MYD10i	MYD10iL
FACILITY REQUIREMENT		
Power supply	AC 200~240V,11A,50/60Hz,2.5kW	AC 200~240V,11A,50/60Hz,2.5kW
Air supply	90psi(6bar)	90psi(6bar)
Dimension	890x1500x1500mm (WxDxH)	1000x1500x1550mm (WxDxH)
Weight	950kg	1000kg
Standard compliance	CE	CE

MOTION SYSTEM		
XYZ positioning accuracy	XY: ±30um@3σ Z:±10um@3σ	XY: ±30um@3σ Z:±10um@3σ
Repeatability	XY: ±15um@3σ Z:±5um@3σ	XY: ±15um@3σ Z:±5um@3σ
Max speed	1000mm/s(XY)	1000mm/s(XY)
Acceleration	1.0g	1.0g
Drive system	Servo motor	Servo motor

MACHINE PARAMETERS		
Conveyor payload	3kg	3kg
Conveyor width adjusting range	40~760mm	40-760mm
Max board length	Single heating stage:440mm Dual heating stage: Left-right 355mm Right-left 310mm	Single heating stage:550mm Dual heating stage: Left-right 410mm Right-left 365mm
Board thickness	0.5~6mm	0.5~6mm
Operating system	Windows 10	Windows 10
Communication protocol	SMEMA	SMEMA
Mini edge clearance	2mm	2mm
Max top clearance	45mm	45mm
Max bottom clearance	23mm	23mm
Z travel	60mm	60mm

DISPENSE AREA		
Max dispensing area (single lane/dual lane)	440x760mm/440x355mm (WxD)	550x760mm/550x355mm (WxD)
Synchronized dual valve - automatic adjustment (single lane/dual lane)	410x660mm/410x295mm (WxD)	520x660mm/520x295mm (WxD)
Asynchronized dual valve (single lane/dual lane)	380x690mm/380x320mm (WxD)	490x690mm/490x320mm (WxD)
Tilt & rotation (single lane/dual lane)	360x660mm/360x305mm (WxD)	470x660mm/470x305mm (WxD)

MYD10X/MYD50X/MYD10i/MYD10iL	
STANDARD FEATURES	OPTIONAL FEATURES
Vacuum cleaning module	Weighing system (contact mode/non-contact mode)
Audible and visual alarm	Laser height detecting system
Vision system	Barcode reading
30cc/55cc feeding syringe	Valve for contact dispensing (auger valve/needle valve/needle dispensing)
Standard operating software	Dual valve (synchronized dispensing/asynchronized dispensing)
X,Y,Z fiducial calibration platform	Tilt dispensing in four directions
IPC	Loader & unloader
Single lane	Conveyor heating for waiting and dispensing area
	Dual lane
	Vacuum platform (customized)
	Low fluid level sensor

Bringing tomorrow's electronics to life

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