



**PROCESS SOLUTIONS
YOU CAN COUNT ON**

AD-16 SERIES

HIGH PRECISION DISPENSING SYSTEM

Features & Benefits

- Suitable for cell phone manufacturing, repeatability accuracy 0.02 mm, modular design
- Minimum dispensing dot size: 0.5 mm (0.02")
- Up to 15,000 dots per minute can be dispensed with dot size less than 1 nanoliter
- X/Y axis can travel at up to 1200 mm/s
- Linear motors integrated with a cast frame provide proven stability during operation
- Dual valves configuration is available as an option for tuning with different glues and applications independently

Product Description

AD-16 Series fluid dispensing system is applicable for SMT underfill, encapsulation, LTS, TIM, flux, semiconductor package, wafer bond etc.

AD Series Strengths:

- Highly accurate linear motor gantry
- Closed loop control to ensure dispensing volume consistency
- Built-in vision system
- Available with all standard valves including Jetting and Auger valves
- Flexible design, easy to upgrade or equip with different valves
- Barcode scanner to automatically load the correct dispensing program



4 way tilt option



Dual valves option

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Specifications:

System Specifications

AD-16 Series Fluid Dispensing System

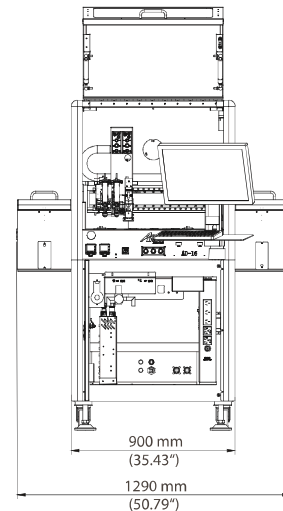
Board Handling	
Standard Work Area	Single valve X 400 × Y 500 × Z 30 mm (X 15.75" × Y 19.68" × Z 1.18") Dual valves X 340 × Y 500 × Z 30 mm (X 13.39" × Y 19.68" × Z 1.18")
Maximum Components Height	± 30 mm (± 1.18") from PCB
Acceleration	2 g
PCB Edge Clearance	≥ 3 mm (≥ 0.12")
PCB Clearance Topside:	30 mm (1.18")
Max. Conveyor Width :	400 mm (15.75")
Min. Conveyor Width :	60 mm (2.36")
Fluid Volume	30 cc
Fluid Level Sensor	Automatic monitor
Intelligent Automatic Nozzle Cleaner	Non-contact vacuum nozzle cleaning
Transmission system	
Conveyor Quantity	1 pair
Conveyor Type	Thermostable ESD belt
Process Flow	L to R (Standard), R to L (Optional)
Conveyor Height	950 ± 20 mm (37.40" ± 0.79")
Conveyor Speed (XY)	2 – 13 m/min
Conveyor Width Adjustment	Automatic (motorized)
Width Adjustment Speed	250 mm/min
Max. Loading	4 kg/m (even distribution)
Vision System	
Resolution	1296 x 966 px
Pixel Size	3.75 x 3.75 μm
Light Source	LED coaxial light source and ring light source
XYZ Axis Configuration	
No. of Valves	Single valve Dual valves (option)
Motor	X – Y linear module + Z servo motor
Maximum Speed	1200 mm/s
Accuracy	0.025 mm (0.001")
Repeatability	± 0.01 mm (± 0.0004")
Facility	
Standard Footprint	L 900 × W 1300 × H 1675 mm (L 35.43" × W 51.18" × H 65.94")
Weight	700 kg
Motor Power	DC 24 V 69 W × 2
Air Requirement	0.6 Mpa
Extraction	≥ 6.5 kg
Input Power	AC 220 V 50/60 Hz 10 A
Total Power	2 KW
Interface	
Controller	IPC and motion control card
Software	Anda user interface software with Windows OS
Programming	On-line vision programming
Communications Protocol	SMEMA

Standard Features

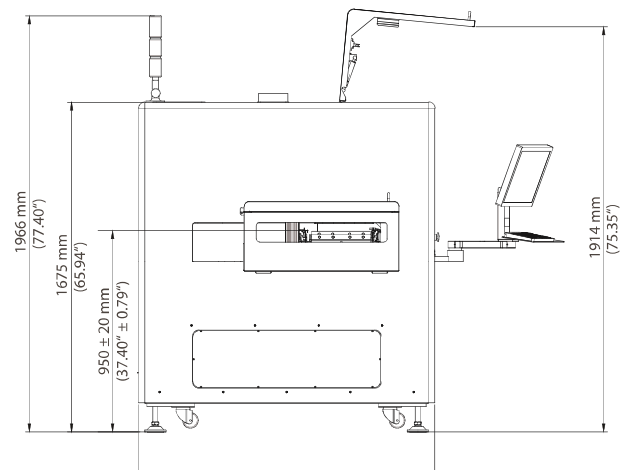
- Computer control, Windows OS
- CCD visual positioning system
- Linear motor and servo driver
- Inline CCD visual programming or gerber upload
- UPS and voltage stabilizer
- ESD grounding point
- CE certified

Optional Features

- Heated valves for viscosity control
- 35 degree tilt and 360 degree rotation
- PCB heater enhances material flow for underfill applications
- Precision weight measurement ensures accurate volumetric dispensing
- Multiple valves available: Pneumatic Jet Valve, Slide Valve and Screw Valve
- Laser height detection to calibrate Z axis automatically for component deformation
- Dual valves



Front View



Side View