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# iJet-7 SERIES

MULTI-FUNCTIONAL FLUID DISPENSING SYSTEM

## Product Description

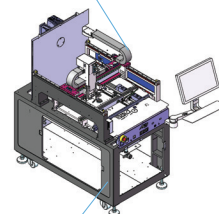
iJet-7 Series are high-speed XYZ gantry systems designed to deliver the highest precision fluid dispensing capabilities available today. These multi-functional dispensing machines provide the highest operating speed with repeated accuracy of  $\pm 0.01$  mm (10  $\mu$ m) for high volume applications.

The systems XY axes are equipped with linear motors and Z axis servo motor with ball screw. The Anda User Interface software ensures the fastest speeds and shortest cycle times for dispensing adhesive glues and sealants.

- Rigid steel structure precision smooth motion platform
- Precision and repeatability accuracy of  $\pm 0.01$  mm (10  $\mu$ m)
- High speed motors with linear speeds up to 1.2 m/s (47 in/s)
- Large platform work area available, up to 650 x 650 mm
- Closed loop controlled volumetric precision dispensing

**iJet-7H:**

X,Y,Z Driving module

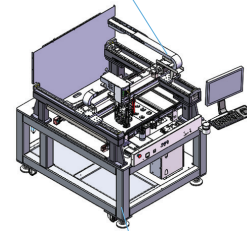


Steel welding frame

iJet-7H Driving module and frame structure

**iJet-7L:**

X,Y,Z Driving module



Steel welding frame

iJet-7L Driving module and frame structure

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# Specifications :

## System Specifications

## iJet-7 Series Multi-Functional Fluid Dispensing Machine

iJet-7H				iJet-7L	
Board Handling					
Standard Work Area	X 380	X 400 mm (15.74")	X 650 mm (25.59")		
		Y 480 mm (18.89")	Y 650 mm (25.59")		
		Z 30 mm (1.18")	Z 30 mm (1.18")		
Min. Conveyor Width		50 mm (1.96")	50 mm (1.96")		
Max. Conveyor Width		480 mm (18.89")	650 mm (25.59")		
Max. Component Height		±90 mm (3.54")			
PCB Edge Clearance		≥ 3 mm (≥ 0.12")			
Process Flow		L to R (Standard), R to L (Optional)			
Max. Conveyor Load		4 kg/m (9 lbs) [Standard], 10 kg/m (22 lbs) [Optional] with even distribution			
Max. Conveyor Speed		13 m/min			
Conveyor Height		900 ± 20 mm (35.43" ± 0.79")			
Conveyor Type		ESD Belt			
Conveyor Width Adjustment		Motorized			
Operation					
Gantry System		XY Linear Motor Z Servo Motor	Servo Motor & Ball Screw		
XY Max. Speed	1000 mm/s	1200 mm/s	1000 mm/s		
XY Acceleration	1.5 g	1.2 g with smooth control	0.8 g with smooth control		
XYZ Repeatability		± 0.01 mm (±0.00039")	± 0.025 mm (±0.00098")		
Min. Dot Diameter		≥ 0.2 mm (Depends on valve specification & fluid property)			
Facility					
Footprint		L 790 mm (31.10") W 1600 mm (62.99") H 1600 mm (62.99")	L 1220 mm (48.03") W 1600 mm (62.99") H 1600 mm (62.99")		
Weight		~700 kg (~1550 lbs)	~1350 kg (~3000lbs)		
Min. Air Supply		0.65 MPa (95 psi, 6.5 Bar)			
Exhaust Requirement		12 m³/min (450 CFM)			
Input Power		AC 220 V 50/60 Hz			
Rated Power		2.5 kW			
Standard Compliance		SMEMA, IPC, CE			
Interface					
Controller		IPC & KMM			
OS		Windows OS			
Software		Anda Software			
Programming		File Transfer & On-board Programming			

## Standard Features

- Contactless vacuum cleaning station
- Programmable valve cleaning
- CCD visual camera
- Inline vision programming or Gerber upload
- LED lighting
- Board presence sensors
- PCB clamping system
- Unlimited program storage
- USB communication ports
- Light tower beacon
- ESD grounding

## Optional Features

- Valve and/or fluid heating
- Substrate heating
- Dual valve dispensing
- Four-direction valve tilting
- Dynamic material mixing
- Material level detection (low fluid level scale)
- Booster pump
- Barcode program selection, 1D or 2D
- Laser height detection (non-contact sensor)
- Volumetric dispense calibration (0.1 mg grade microscale)
- Pre-queue board station
- Multi-stage or multi-zone conveyor
- Dual lane conveyor
- Return conveyor (underneath)

