

G201-F3 Inline Vision Precision Dispensing System

A 3-axis Cartesian dispensing system for inline rail-conveyor integration. Image-based programming and vision positioning support material application on PCB assemblies, with the valve and process configuration selected around the material and deposit requirements.



Selection highlights

- 500 × 400 × 50 mm dispensing travel
- 6 MP industrial color camera
- Image-based programming; SMEMA / HERMES interfaces

Applications to evaluate

- Underfill around compatible component packages
- Chip or lead encapsulation and surface sealing
- Dam-and-fill and selected PoP assembly processes
- Red adhesive, solder paste or silver paste dispensing after material and valve evaluation

How the configuration supports your process

Vision-guided programming

A small field of view combined with image fusion supports board positioning and image-based path definition. Review fiducial visibility, component access and fixture repeatability for your assembly.

Valve selection around the material

The equipment documentation lists piezoelectric, precision screw and pneumatic jetting valves. Material viscosity, filler particles, pot life and required deposit geometry determine the suitable valve and process settings.

Line and process integration

The documented platform includes tool calibration, board recognition and production statistics. Confirm the required upstream/downstream handshake and MES data scope during the configuration review.

G201-F3 | Technical reference

Values below are drawn from the product documentation. Confirm the ordered configuration and installation specification before purchase.

Parameter	Documented configuration / value
Motion configuration	3-axis Cartesian
Installation	Inline rail conveyor integration
Dispensing travel (X × Y × Z)	500 × 400 × 50 mm
PCB thickness	0.5-7 mm
Conveyor width adjustment	50-400 mm
Conveyor height	900 ±50 mm
Conveyor load capacity	3 kg
Vision camera	6 MP industrial color camera
Programming	Image-based
Line interfaces	SMEMA / HERMES; confirm project implementation
Valve choices	Piezoelectric, precision screw or pneumatic jetting; configuration dependent
Dimensions (L × W × H)	910 × 1300 × 1843 mm
Weight	650 kg
Power supply	AC 220 V, 10 A, 50 Hz
Air supply	0.4-1 MPa
Control platform	Ubuntu 18.04 LTS, 64-bit listed in supplied documentation; confirm delivered software version

Air-pressure range updated to 0.4-1 MPa from the confirmed JCX specification.

Reference: <https://www.visee-tech.com/product-item-21.html>

Prepared from supplied product documentation; this selection brief does not replace the agreed quotation or acceptance specification.

Plan your G201-F3 configuration

Base configuration and options

The documented base configuration is a 3-axis Cartesian platform with image-based programming and a 6 MP camera. Confirm the exact valve, software and interface scope in the quotation.

- Pressure booster pump and microbalance
- Barcode reader and laser height measurement
- Bottom return conveyor or dual-lane transport
- Dual-valve mechanism
- 2D deposit checks or 3D bead-profile inspection

Installation and project inputs

Prepare the conveyor-height and board-support requirements, AC power, compressed air and access for maintenance. Use the confirmed 0.4-1 MPa supply range and verify air quality requirements. Check material handling, ventilation and curing requirements against the selected material.

Common selection questions

Can one valve dispense every adhesive?

No. Material compatibility and deposit requirements must be evaluated. The listed valve types are configuration choices, not a guarantee that every material can be processed by one setup.

Are 2D and 3D adhesive inspection included?

They are listed as optional equipment. Include the required defect types and acceptance criteria in your quotation request.

Discuss your application with JCX

Jiachenxin Technology (Shenzhen) Co., Ltd.

Email: sales@jcx-smt.com | WhatsApp: +86 136 0300 7119

Product page: <https://jcx-smtmachine.com/product/g201-f3/>

Provide board dimensions, representative samples, materials where relevant, and your inspection or process acceptance criteria. Support, training and integration scope are agreed for each project.