

PRODUCT SHEET
Ginolis LFDA-3

Assembly system for
lateral flow devices



GINOLIS
Precision Robotics

Features

Ginolis LFDA-3 is a standard system for fully automated assembly of rapid tests. The unique desktop approach takes a smaller footprint than traditional automation, saving valuable space in production facilities. In addition, Ginolis's modular LFDA automation solutions are easy to reconfigure to meet changing needs, whether there is a need to redesign the process or replace the entire product. Scalability enables multiplying production processes and thereby increasing production capacity.

Flexible

Ginolis LFDA-3 is easily adaptable and can assemble different rapid tests with minimal product-specific adjustments. This solution provides manufacturers with flexible production capacity in a desktop footprint.

Intelligent

The versatile machine vision system is utilized for accurate positioning, defect detection, tolerance monitoring, and component measurement to ensure flawless and high-quality operation. The machine vision guidance system yields a consistently assembled device.

Modular

The LFDA-3 is built on Ginolis's modular Xanthia robotic platform. The line can be easily expanded to include modules for multiple test strips, RFID tags, printing, labelling, laser marking, cap assembly, ultrasonic welding and pouching.

Capacity	Up to 24 ppm (* (one plain product with a cassette bottom, one strip and a cover)
Card infeed	Automatic strip cutting and magazine buffer for laminated card
Card length	300-500 mm
Strip length	40 - 98 mm
Infeed	Automatic bottom and cover feeding
Plastic parts	W 15 - 40 mm, L 50 - 120 mm
Connections	230/110V 10A Pressurized air > 6 bar
Quality control	Strip width QC, strip bad mark automatic reject, strip placement QC, closure check

(* Depending on machine configuration and the part to be produced. Please contact us for further information.



Functional description



1. Bulk feeder
2. Xanthia robot cell
3. Material transfer track
4. Cutter module
5. Press unit
6. Xanthia robot cell
7. Product out-feed



Operator loads cassette parts to bulk feeders



Strip cutter cuts the strip and inspects its quality



Scara robot places the strip on the cassette bottom



Vision system inspects the strip placement



Press unit closes the cassette, position sensor verifies the closing height



Quality control unit performs the final inspection



Accepted products are ready for use



Failed products are dropped to the reject bin

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