

PRODUCT SHEET

Ginolis LFDA-1

Assembly system for
lateral flow devices



Features

Ginolis LFDA-1 is a semi-automated assembly system for lateral flow devices. The quick return-on-investment, easy commissioning, and short delivery time provide a smooth start to your rapid test production. With the LFDA-1, you can produce up to 20 parts per minute, taking less than 2,5 m² (less than 26 f²) footprint in your cleanroom.

Optimised for fast track to automated lateral flow test production

- Improve efficiency
- Eliminate human error
- Reduce production costs

Increased production capacity

- Up to 20 parts per minute (*
- Up to 10 times quicker than manual
- 3 million products per shift per year

Advanced design and technology

- Small footprint 2,5 m²/26 f²,
- Reliable quality using vision systems
- Ginolis Ginger software

Low entry barrier to automation

- Easy to set-up and use
- Short lead time
- Quick return on invest

Capacity	Up To 20 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	Manual bottom and cover feeding
Plastic parts	W 15 – 40 mm, L 50 – 110 mm
Connections	230/110 V 10 A Pressurized air > 6 bar
Quality control	Strip width QC, strip bad mark automatic reject, press force adjustable 0-1000 N, integrated closure gap measuring during pressing
Optional features	UV fluorescence check, a quality inspection unit for measuring product closure gap, machine vision inspection: print quality inspection and fluorescence line detection

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



Functional description



1. User interface
2. Cutter module
3. Manual feeding of housing bottoms and tops
4. Xanthia 700 robot cell
5. Product out-feed
6. Failed products
7. Aluminum profile subframe



Operator feeds cassette parts to the conveyor



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 (optional)



Accepted products are ready for use



Failed products are dropped to the reject bin

CONTACT US
Europe +358 10 315 3600
US +1 844 446 6547
sales@ginolis.com

GINOLIS
Precision Robotics