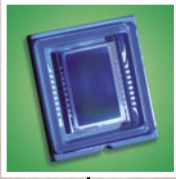


the **new** world of
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DS9-100 Series Clean Room Sorting

Clean Sorting of CMOS Image Sensors

The Laurier DS9-100 incorporates a HEPA filter and laminar flow system to create a class 100 mini-environment for picking and placing imaging sensors from wafer to tape frame or waffle pack.

- Pick & place from wafer to tape frame at 8000 UPH
- Separate up to 25 bins
- Placement accuracy of +/- 37 μ m at 3 sigma
- Wafers up to 300 mm
- CCD and CMOS image sensors from 1mm - 12mm sq.
- Vision inspection before picking
- Output frame with die track mapping
- Vision inspection after die placement
- HEPA filter system for class 100 environment
- Windows® XP



*Pick and place rates vary by application and sort distribution

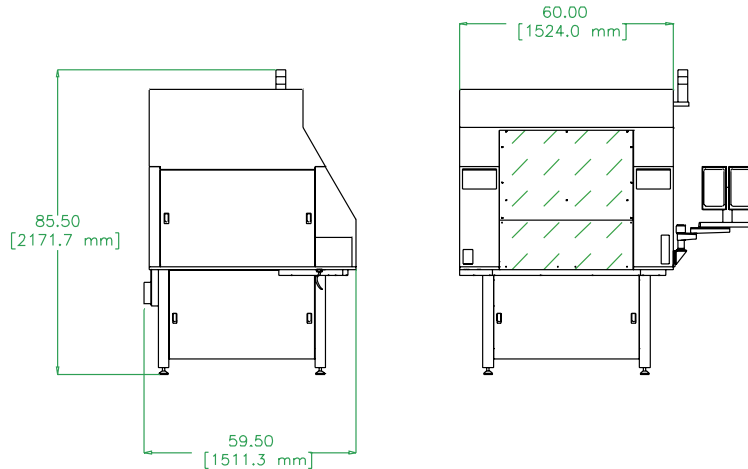
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Clean Room Sorter



Technical Specifications DS9-100 Clean Room

Mapping

Row /column and array formats
SECS II
ALPs

Throughput

9,000 UPH sprint rate
8,000 UPH typical for die < 5mm
7,400 typical for die > 5mm

Inspection

Edge chip detection
Place position X, Y, Ø

Placement Accuracy

+/- 37 µm @ 3 sigma
+/- 1 degree theta

Die Size

0.5mm to 5mm
5mm to 24mm

Cassette Input

25 slot, 3/16 inch pitch
Frames 12 & 8 inch

Cassette Output

25 slot, 3/16 inch pitch
Frames 8 inch
Carrier plates for waffle packs 2, 3 & 4 inch

Mini Environment

Standard ULPA
(filter rating 99.9995% @ 0.12µm)
Fan-filter unit with variable speed control
(760-1200 cfm +/-10%)
Air Ionizer
Maximum of 100 particles ≥ 0.5µm diameter/ft³
Exhaust fan at 235 cfm
Particle measurements in dry cycle machine mode

Electrical

208/220/230/430 VAC single phase
3KVA

Network

Ethernet or SECS
TCP/IP
RS232

Pneumatic

5.8-7.5 Bar (85 to 120 PSI) Clean Dry Air
140 L / minute (5 SCFM)
N2: 2-4 bar @ 2L / minute
Exhaust (2x): 30mbar @ 500m³ / hr

Weight

1500 kg (3300lbs.)

SALES OFFICES AND AGENTS

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Laurier, Inc. is a Product Division of BE Semiconductor Industries N.V., which is publicly listed at NASDAQ (USA) and the Amsterdam (The Netherlands) Stock Exchange as BESI. Website: www.besi.com

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