



FA SYSTEMS AUTOMATION (S) PTE LTD

Your Manufacturing Partner...

36, Changi South Street 1, Changi South Industrial Estate, Singapore 486766

Tel: 65-65462775

Fax: 65-65462776

Email: sales@fasystems.com.sg

Website: www.fasystems.com.sg

DS501

Die Sorter Machine

The **Die Sorter Machine** is designed for the automatic sorting and packaging of Die on Wafers after top and bottom inspection.

The wafers are first loaded to Wafer Holder for top inspection by Top Vision 1. All Die without the reject ink mark are transferred to Bottom Vision station for bottom inspection for defects such as crack, etc. The reject Die are unloaded to reject bin and other Die are transferred to Top Vision 2 for further inspection for defects, such as detection of chipping, contamination, etc. After Top Vision 2 inspection, the reject Die are unloaded to reject bin, and the good Die are unloaded onto tray module, or packaged on Tape and Reel station based on User's selection.



Specifications:

Handling System

- Continuous load/unload (for tray module)
- Dual pick and place heads
- Tape and reel (package)
- UPH: ~ 1000
- Wafer cassette: 6" & 8"
- Die size: 0.8 mm to 8 mm
- Die thickness min: 0.08 mm

Inspection

- Edge chip detection
- Wafer orientation / scratch / crack / ink / contamination / bump damage / broken & chipping
- Place position XY & theta detection

Control System

- PC control platform
- LCD monitor

Machine Footprint

- 1,840 mm (L) X 1,390 mm (W)
X 2,020 mm (H)

Standard Platform Weight

- Approx. 1,600 Kg

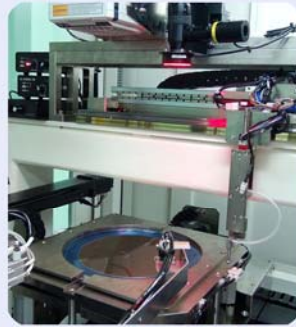
Facilities Requirement

- Power supply: single-phase, 230 VAC, 50/60 Hz
- CDA: 5~6 bar
- Air Inlet: Ø8 mm tube

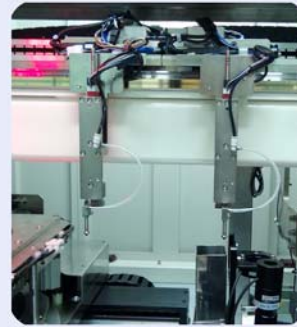
UNIQUE FEATURES & ADVANTAGES



Wafer Elevator



Top Vision 1 &
Wafer Holder



Pick and Place

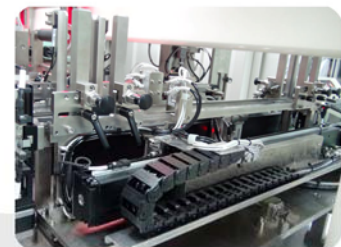


Top Vision 2

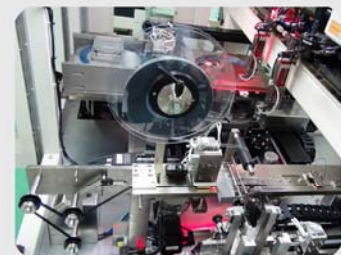
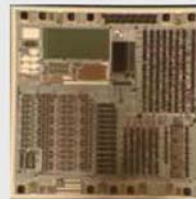
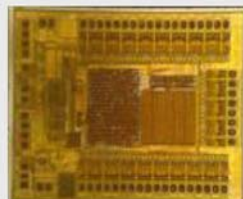
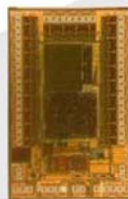
- Can handle a wide range of Die.
- Ionizer eliminates static, Dual individual high-speed linear bond heads for Pick & Place process with Soft touch mechanism to ensure no additional contamination.
- High Throughput and Small Footprint.
- Vision Inspection Capability to ensure precise inspection.
- User-friendly Machine interface. Easy to learn with very simple training.
- Modular design, High-speed handling, Vision capability, Repeatability and Accuracy, Quick and Easy Maintenance minimizes machine downtime.
- Result is a more Cost-Effective Solution and Low Cost of Ownership for high volume manufacturing with improved Quality, Reduced Cost, Productivity improvement and High UPH.



Bottom Vision & Precisor



Tray Module



Tape and Reel

Major Target Users

Semiconductor manufacturers and test houses.

**Manufacturer of Customized Automated Equipment
Technology. Customization. Globalization. People
Providing flexible, innovative and low cost automation solutions**



FA SYSTEMS AUTOMATION (S) PTE LTD

Your Manufacturing Partner...

36, Changi South Street 1, Changi South Industrial Estate, Singapore 486766

Tel: 65-65462775

Email: sales@fasystems.com.sg

Fax: 65-65462776

Website: www.fasystems.com.sg