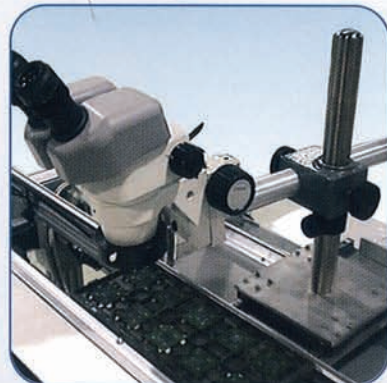
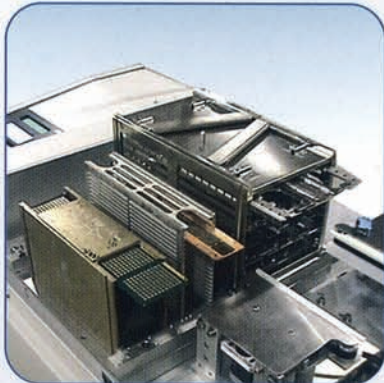




SIMPLIMATIC
AUTOMATION

SEMITRAK™



experience

energy

enthusiasm



Experience

Simplimatic designs are simple and proven, with thousands of machines operating in some of the world's most demanding semiconductor assembly, test, and R&D environments. Our expertise can help your company reduce scrap, lower labor costs, manage WIP, and increase utilization by automating the handling of JEDEC trays, carriers, and pallets that are common in back-end semiconductor manufacturing.

Unlike expensive fab equipment providers who offer material handling as a secondary product, *our core competency is material handling*. Reconfigure or optimize your line quickly and easily by selecting from our standard line of modular magazine handlers, stackers, shuttles, workstations, rotators, orientators, and more.



Simplimatic Installed Base: Semiconductor Assembly Products



Standard On All Units:

- Designed to SEMI S2/S8
- High vacuum lubricants
- Low particulate belting
- AB PLC's
- Closed-loop servo motion control
- Stepper-controlled PLCs
- NEMA-rated enclosures
- Electrostatic dissipative construction

Typical Options:

- Width or length of conveyor sections
- ESD-safe Lexan covers
- Networked width control or other LAN
- Bar code and 2D readers
- Workstation and Inspection Options
- Lift and Locates
- Custom magazine size or custom tooling
- Swivel caster feet

Modular

Reconfiguring your factory?

Our modular approach to machine design results in maximum flexibility for you. As your production layout changes, just add or subtract our “plug-and-play” conveyor modules. Each machine is built to SEMI and SMEMA industry standards, which ensures they will integrate easily into your production lines.

Need to add accessories?

Microscopes, heated stages, 2D readers, and tooling fixtures will bolt right to our proprietary extruded aluminum framework with basic hand tools. No welding or drilling required.

Have a custom requirement?

Our modular design philosophy means we can respond quickly to custom requests, without starting a design from “scratch”, which saves you time and money. For example, we have pre-packaged solutions for custom magazine sizes, extra-small or extra-large products, fragile substrates, and high-temperature packages.

- Add accessories without drilling or welding



- Machines like this inline magazine buffer can be quickly added or reconfigured

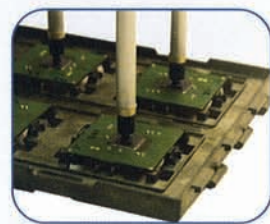
- Preset tooling for all standard carrier sizes, including 2.3, 3.1, 4.3, and 5.4 inches



Additional Features

"Clean" Design

Special lubricants and conveyor belts minimize chemical and particulate contamination.

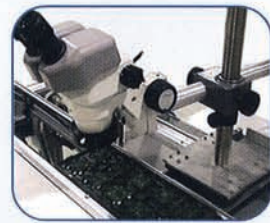
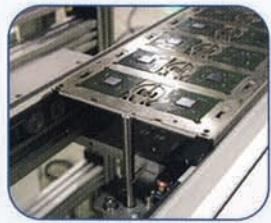


Media Transfer

Provides "lot size one" material handling management.

Lift and Locate Tooling

Add lift and locate or lift and rotate tooling for inspection, metrology, or orientation processes.

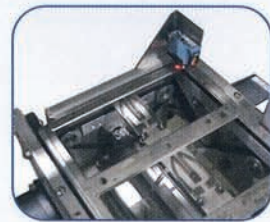


Optical Inspection

Standard XY stages available for mounting common microscope types.

Footprint Minimization

Every effort is taken to reduce footprint, while providing easy access to the interior of the machine.

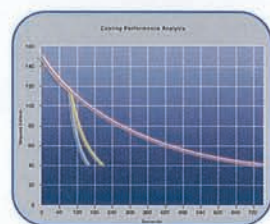


Media-specific Material Handling

Equipment is specifically designed to handle "J" or flat-style carriers, JEDEC trays, or pallets.

ESD Management

Grounded frames, static dissipative belts, and ESD receptacles are standard.



Humidity and Temperature Management

Controlled humidity environments available, as well as high-temperature part handling, up to 150° Celsius.

Products

Model 7020: Tray - Pallet Transfer

Transfers substrate between JEDEC tray to carrier or other media.



Model 2010: Connecting Conveyor

Used to bridge two or more processes, acts as an inspection point on the manufacturing line, and buffers WIP.

With Lexan cover - adds Lexan cover to connecting conveyor when particulates or air-flow is a specific concern.

Model 2070: Shuttle Unit

Is used to convey product perpendicularly to the process flow where speed and routing options are primary concerns. Up to six positions can be taught, each capable of bidirectional transfer.



Model 2360: Micro Magazine Buffer

Designed to help balance the flow of your production line by temporarily storing work in progress in removable magazines.

Model 2390: Product Orientator

Is used to change the orientation of a product ninety-degrees about a vertical axis. Product can be introduced into the machine in either orientation and can be rotated in either direction.

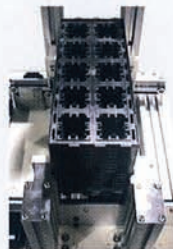


Model 2330: Micro Magazine Handler

Small-footprint magazine loader/unloader handles standard and custom carriers, including flat and J-style.

Model 2661: JEDEC Tray Stacker/Destacker

Stacks or destacks up to 50 JEDEC trays



Model 2331: Enclosed Micro Magazine Handler

Fully enclosed version of our standard micro magazine handler

Model 2031: Workstation

Inline workstation available in numerous configurations, with a variety of accessories



Model 2335: Micro Magazine Handler, High Volume

High volume magazine handler with automated magazine transfer and docking cart

CUSTOMER SERVICE IS
OUR TOP PRIORITY



Simplimatic Automation is a manufacturer of modular conveyors & automation for packaging and assembly production lines. The products we offer are used to automate production lines in the electronics, semiconductor, automotive, consumer products, food, pharmaceutical and personal care industries. Products are shipped, installed and serviced worldwide. See our web site for our worldwide list of authorized solution centers.



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