Electronics Handling and Automation
from Simplimatic Automation

Cimtrak® is Synonymous with Superior Build Quality
Simplimatic's Cimtrak® systems are constructed using robust extruded aluminum, seamless fiberglass-reinforced power transmission belts, Allen Bradley PLCs, and virtually service-free stepper motors that produce a modular machine designed to provide years of reliable, hassle-free operation. A large variety of accessories can be added without drilling or welding, allowing a line to be customized or upgraded throughout the product life-cycle.

High-quality components combined with decades of knowledge and experience, allows Simplimatic to manufacture equipment that provides an unsurpassed return on investment. The Cimtrak® product line consistently allows customers to increase throughput, minimize line downtime, and maximize line efficiency. These traits are what have made the Cimtrak® brand the preferred material handling system for ESD-sensitive material worldwide.

Solid Conveyor Belt Construction:
Non-spliced, fiberglass-reinforced transmission belts provide superior strength and wear characteristics.

Reliable DC Stepper Motors:
Stepper motors allow precise adjustments to velocity, torque, and acceleration. They are also virtually service free.

Premium Rail Design:
Cimtrak® conveyor features zero gap between belt and edges to eliminate jams.

Adjustable In-feed Tips:
Each Cimtrak® system can be lengthend by up to 4" for easy install.

Industry 4.0 Communication:
Available with several PLC options, all Cimtrak® products can be configured for smart Industry 4.0 communication.

Extruded Aluminum Framework:
A proprietary aluminum frame is stronger than 2" square mild-steel frame. This provides a light and strong chassis.
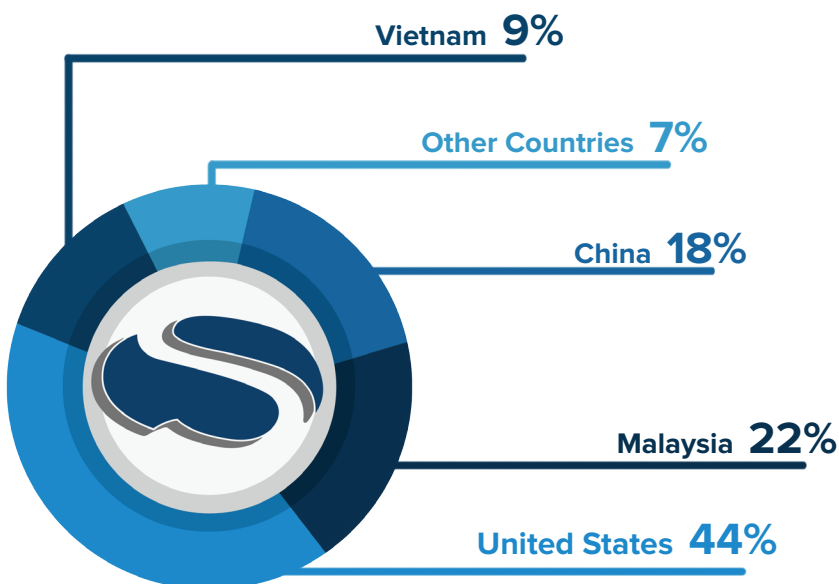
An Extensive History in Edge Guided Conveying

Simplimatic Automation's line of Cimtrak® material handling products have a long history of moving PCBs, ceramic and metal substrates, flexible media, plastic trays, metal trays, and other carriers safely, smoothly, and reliably since their initial debut in 1988.

In the 30 years since their release, Cimtrak® conveyor and automation products have become an industry standard when it comes to moving ESD-sensitive material during the many phases of manufacturing, assembly, and testing.

With thousands of systems in use by dozens of Fortune® 500 companies, Simplimatic has designed, built, installed, and maintained the largest base of electronic conveying products in the world all from its U.S. based manufacturing facilities.

> **"Cimtrak® products have the largest installation base in the world and an average service life of over 15 years."**

Vietnam **9%**

Other Countries **7%**

China **18%**

Malaysia **22%**

United States **44%**

Global Installation & Support

Simplimatic's line of Cimtrak® products have seen extensive installation throughout the world due to our expansive sales and support network within North America, Europe, and Asia.
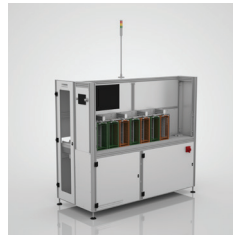
World renowned for their superior reliability, Cimtrak® material handling systems have an average service life of over 15 years. In the event a system needs service or support, Simplimatic offers complimentary 24-hour phone support, guaranteed 12-hour on-site emergency response for North American customers, and guaranteed 48-hour on-site emergency response for all other customers across the globe.
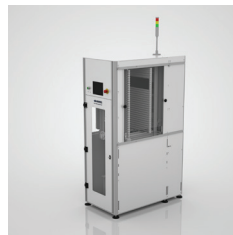
Cimtrak® Bare Board Stacker / Destacker introduces or removes unpopulated circuit boards from line processes. The system handles 10'' stacks of flat panel boards measuring up to 18'' x 20''. The system can be used in pass through mode as needed during low-mix production runs.

Cimtrak® Side-By-Side Mag Loader uses an integrated vision system to read 1D and 2D marks on printed circuit boards. Boards are sorted into magazines for ergonomic removal for other downline processes including rework and final packaging.

Cimtrak® BB Vacuum Loader loads unpopulated printed circuit boards and other flat panel products to high volume surface mount and through hole production lines. The pneumatically-driven system handles up to a 20'' stack with an average load cycle time of seven seconds.

Cimtrak® FIFO/LIFO Buffer provides consistent line throughput by buffering before and after line processes of variable speeds. Available in 10, 20, 30, 40, and other capacities. The system accommodates boards from 2"x 3" to 18"x 20" in size.

Cimtrak® Tray Stacker / Destacker introduces JEDEC and other types of chip trays on or off an edge belt processing line. The unit is designed to handle industry standard 12.7'' x 5.35'' trays, but can be customized to handle other custom sizes upon customer request.

Cimtrak® Removable Mag Buffer can be placed in-line to introduce, remove, or buffer printed circuit boards using a single magazine. This machine is designed to handle standard 18" x 20" boards, but can be customized upon request.

Cimtrak® Micro Mag Loader / Unloader loads or unloads printed circuit boards or other flat products from a magazine onto the board processing line. The system is designed to handle standard 2.3", 3.1", 4.3", and 5.4" magazines, but can also be configured to handle other custom sizes.

Cimtrak® Edge Belt Conveyor transports printed circuit boards and other ESD-sensitive flat panel product between manufacturing processes. Available in multiple lengths, multiple drive configurations, and with optional power width control.

Cimtrak® Mini Mag Loader / Unloader loads or unloads up to 50 printed circuit boards sized up to 18'' x 20'' from a single magazine at the beginning or end of a PCB processing line. This machine can also be customized to handle most third-party magazine types.

Cimtrak® Inspection Conveyor transports printed circuit boards like standard edge conveyor, but has integrated stop functionality for visual inspection. A manual push-to-release button provides operator control. The system can run in pass through mode.

Cimtrak® Magazine Loader/Unloader is designed to load and unload up to 250 standard boards measuring up to 18" x 20" from multiple magazines without operator intervention. Available for inline or 90° usage with other optional sizes and third-party mag compatibility.

Cimtrak® Workstation Conveyor conveys product through manual assembly processes. Systems are ergonomically designed and are available in multiple lengths, with numerous drives, and with dozens of bolt-on system accessories.

Cimtrak® Power & Free Conveyor uses a low back pressure roller chain to convey during product prep, assembly, and inspection. Available in dual-sided configurations, 12" - 24" widths, and 4' - 20' lengths. Also available as a motorless slide line.

Cimtrak® Edge Belt Shuttlegate maintains a line opening until a printed circuit board is ready for transfer. When ready, the system extends to transfer the PCB to the next system in line. The system has an average cycle time of seven seconds.

Cimtrak® Edge Belt Lift Gate provides constant pass through operation until an aisle way is needed. Creates an aisle way in a closed production line. It is counterweighted with an electromagnetic lock which prevents product damage in transfer.

Cimtrak® Edge Belt Walk-Over allows flat panel product to be conveyed 10-12" off the floor. This product is often utilized to convey ESD-sensitive material under an area with low clearance or for staff to walk directly over. Size made to order.

Cimtrak® Edge Belt Walk-Under creates a permanent passageway under the production line. This allows operators or equipment to pass between machines in a line instead of around the end of the line. Custom heights available.

Cimtrak® Slide & Turn Conveyor manages board direction on a production line. Depending on customer rotation requirements this system can accept and discharge from any side including same side in/out. Maximum 270° range of motion.

Cimtrak® Servo Side Shuttle conveys product perpendicularly to the process flow when routing options are a primary concern. A total of six infeed and/or discharge positions can be taught, providing diverse routing options for converging PCB lines.

Cimtrak® 15° Tilt Conveyor uses a pneumatic cylinder to gently raise and lower the conveyor for easier manual assembly or board inspection. PCBs and other flat panel products can be transferred tilted to other Cimtrak® tilt conveyor products.

Cimtrak® Edge Belt Board Elevator accommodates positive or negative elevation changes from 16" - 50'' on a production line. It features DC stepper motor conveyor and adjustable shocks and load positions. Other custom elevations are available.

Cimtrak® Edge Belt Board Inverter rotates flat panel products 180° on a horizontal axis. The system can also pass through without inverting; accept, invert, and discharge from the same side; or invert and pass. The system has < 7 second cycle time.

Cimtrak® Multiple Axis Laser Marker marks PCBs and other flat panels using an integrated Keyence® laser. Available with either a standard 30W CO_2 for etching non-metallic surfaces or an optional solid state laser. An internal board inverter is available.

Cimtrak® Board Traceability System reads variable PCB 1D and 2D barcode data from front-end, mid-stream, or pre-packaging processes. The system utilizes Cimtrak® Edge Belt conveyor and integrated Microscan® supplied optics and software.

SIMPLIMATIC
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Keep it Smart. Keep it Simple.™

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