



ROBOTICS, Inc.

VertiCure™ Vertical Curing System

PRODUCT DATA

ROBOTICS, Inc. VertiCure™ Vertical Curing Systems cure and cool dispensed adhesive and sealant materials for high volume production. The design minimizes floor space requirements.

Benefits

When floor space is at a premium, horizontal ovens may consume too much real estate. So we literally designed the VertiCure™ Vertical Curing System from the ground up!

- > **65% savings** in floor space*
- > **80% less energy** used*
- > Advanced index controls integrated with the conveyor maximize production throughput

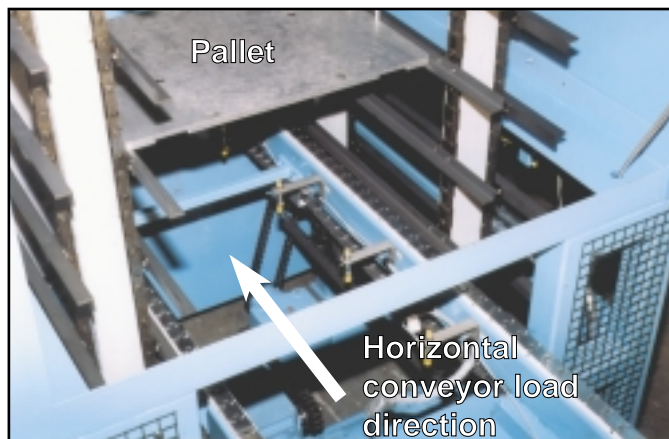
* Figures based on comparison with an equivalent 40' horizontal CNV Oven with 18' cooling section, with temperature set at about 140°C. Results may vary.

Key Features

- > Fully programmable with *Smart Oven Technology™*
- > Can be set to index single or multiple pallets per index level
- > Multiple heating-zone flexibility, with adjustable temperature control
- > Electric powered, natural gas optional
- > High-temperature safety shut off switches
- > Indexing conveyor

Options

- > Power exhaust venting
- > Temperature Datalogging System



Interior view of horizontal loading conveyor and vertical conveyor index supports with a single unloaded pallet.



The VertiCure™ Vertical Curing System

VertiCure™ Vertical Curing Systems

Our VertiCure™ Vertical Curing Systems compliment all our dispensing system lines, producing complete "dispense-and-cure" systems. These automated curing systems may be customized to specific customer requirements.

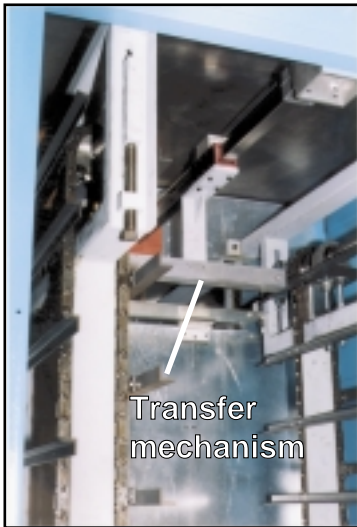
The standard vertical conveyor system can accommodate pallets up to 24" w x 36" d (or 2-3 24" wide pallets totalling 36" deep) per index level. For example, a total of 33 24" w x 12" d pallets can be accommodated in each of the heating and cooling zones. A pallet with parts can total up to 5" high.

Smart Oven Technology™

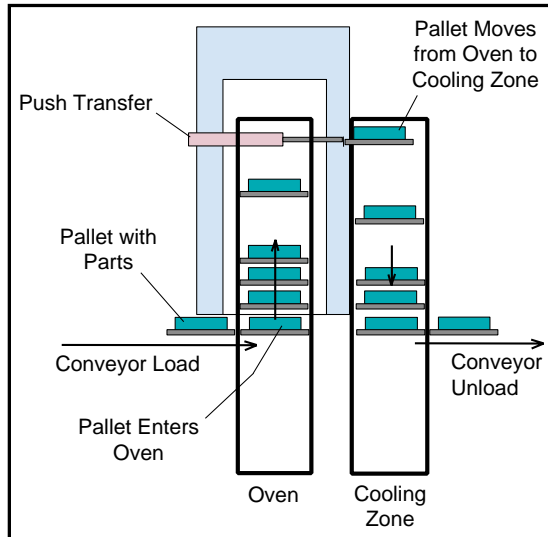
All VertiCure systems have our *Smart Oven Technology™*. This feature ensures maximized oven production by compensating for varying pallet ready times. The oven conveyor automatically indexes an awaiting pallet as soon as it is ready (within the set max and min limits). Max and min cure time limits are easily set based on material characteristics and operator preference.

Temperature Monitoring

The optional Temperature Datalogging System allows programmed temperature monitoring from multiple points within the oven. Data may be printed directly from the System's printer. Also, each temperature probe may be checked at any time from keypad queries on the digital display. The data is downloadable to a PC for statistical process control (SPC) analysis.



Pallet transfer at the top of the heating zone.



Schematic diagram showing pallet movement through the oven and cooling zone.



Inside view of pallet and index levels.

Systems & Support

Robotics, Inc. has decades of experience designing and building automated dispensing systems. We provide complete system solutions, including start-up and installation assistance, training, field service support, and complete documentation. We provide both standard systems and custom-designed solutions. Dependent on your specific project considerations, Robotics Inc. staff will design and build a system that is right for you.

Information

For more information on VertiCure™ Vertical Curing Systems or other products and services, contact a Representative from our Technical Sales Department:



Headquarters

2421 Route 9
Ballston Spa, New York 12020
Phone (518) 899-4211 or (800) 876-2684
Fax (518) 899-4230
www.Roboticsinc.com
Email: Info@Roboticsinc.com

Midwest Regional Sales Office

Phone (248) 743-2920
Fax (248) 743-2923

Electrical/Electronics Sales Inquiries

Phone (518) 899-4211 or (800) 876-2684
Fax (518) 899-4230

VertiCure™ System Specifications*

Outside Dimensions (Approximate)	13'5" x 7'7" x 12'1" (LxWxH)
Max. Pallet/Part Size	24" x 36" x 5" (W x D x H)
Index Levels	11
Max. Weight per Index Level	100 lbs.
Max. Temperature	450°F
Temperature Controls	Independent zones, all controls in one exterior enclosure
Controller	Allen-Bradley PLC
Cooling	Multiple high-capacity ambient-air fans
Conveyor	High-temperature synchronous or asynchronous conveyor with stainless steel flat-top chain

*Specifications shown are standard. Custom designs are also available. Specifications subject to change without prior notice.

Since 1971, Robotics Inc. has designed, built, and supported automated dispensing around the world!

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