



# ROBOTICS, Inc.

## InfraCure™ Infrared Curing Systems

PRODUCT DATA

**ROBOTICS, Inc. Utilizing infrared technology, Robotics, Inc. InfraCure™ Conveyorized Curing Systems provide fast and stable curing for sealant materials as well as a wide range of other applications.**

### Benefits

- Radiant heating heats the part directly, not the air around it resulting in fast ramp up to cure temperature to speed the curing cycle.
- Cures part in less time and with less energy.
- Accommodates a variety of applications, including dispense & cure, drying, finishing and thermoforming preparation.

### Key Features

- Electric-powered infrared tile elements
- Continuous wire mesh oven conveyor with adjustable speed
- Electrical control cabinet with temperature controls
- Independent control of top and bottom element banks
- Insulated frame over curing zone

### Options

- System size customized to fit virtually any size part
- Cooling System
- Temperature Datalogging Feature



*Thermoforming Application* – The InfraCure™ 5000 rapidly brings a pair of 5' x 9' thermoplastic sheets to required temperature. The conveyor then automatically extends to present the heated sheets to the press. A height adjustment feature allows the oven to be raised or lowered to match the conveyor height with the press load height.

### InfraCure™ Curing Systems

Our InfraCure™ Curing Systems compliment all our dispensing system lines, producing complete "dispense-and-cure" systems. These automated curing systems come in standard sizes, and can be customized to specific customer requirements.

### Temperature Zones

A wire mesh conveyor moves parts through the InfraCure system at a pre-set speed. A bank of infrared tiles above and below the conveyor introduces heat directly to the part. Each bank has a temperature sensor that works in conjunction with the system controller to ensure that the required temperature is being applied to the part.

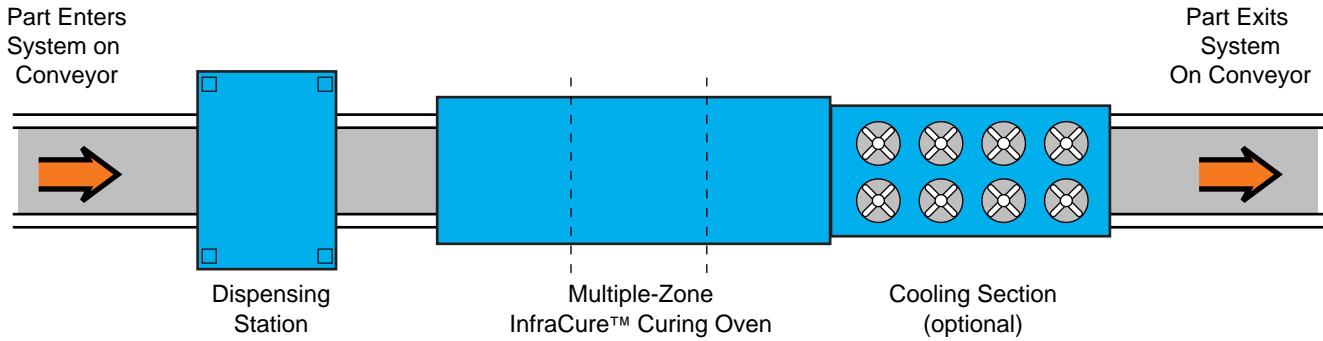
### Temperature Datalogging

The optional Temperature Datalogging feature allows programmed temperature monitoring and recording 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.

*Gasket Cure Application* (left) – A liquid sealant applied to a small filter housing is rapidly cured in an InfraCure™ 1000 system.

# Schematic Dispense-and-Cure System\*

TOP VIEW



\*For illustration purposes only. Systems are configured according to customer requirements.

## Systems & Support

Since 1971, Robotics, Inc. has designed and built dispensing and automated 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 our InfraCure™ product line 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  
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### Midwest Regional Sales Office

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

## InfraCure™ Oven Specifications\*

<b>Max. Temperature</b>	1000°F (approx.)		
<b>Temperature Controls</b>	Independent zones; all controls in one enclosure		
<b>Conveyor</b>	Hi-temperature synchronous or asynchronous motor and drive system with stainless steel wire mesh chain		
<b>Max. Part Weight on Conveyor</b>	Wide range available		
<b>Overall Dimensions</b>	Model No.	1000	5000
	H	60"	71" **
	L	72"	168"
	W	22"	136"

\*Specifications shown are standard. Custom designs are also available. Specifications subject to change without prior notice.  
\*\* Adjustable lower frame on 5000 Model allows oven to be raised by 22" (93"H total).

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

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