



CAMALOT Hot•Trac™ Conveyorized Pre-heat Module

APPLICATION

CAMALOT Hot•Trac™ is a stand-alone or in-line automated pre-heat module. Hot•Trac uses a non-contact convection heating system to preheat substrates to the proper dispensing temperature before sending them into the first station of a dispensing system. It is primarily designed for the semiconductor packaging and circuit board assembly industries to help increase the throughput of dispensing systems performing flip chip underfill and encapsulation.

The CAMALOT Hot•Trac is compact and flexible enough to handle a variety of substrates without special tooling, and can be configured to flow either from left to right or right to left.

System Benefits

INCREASES THROUGHPUT AND PRODUCTIVITY

- > Hot•Trac allows for preheating of substrates for a variety of dispensing applications.

REDUCES COSTS

- > Small footprint saves valuable cleanroom production space.

SAVES TIME

- > Non-contact convection heating system handles multiple substrates.
- > Stores up to ten recipes for easy conversion from one program to another.
- > Easy set up as a stand-alone or in-line module.

FLEXIBLE

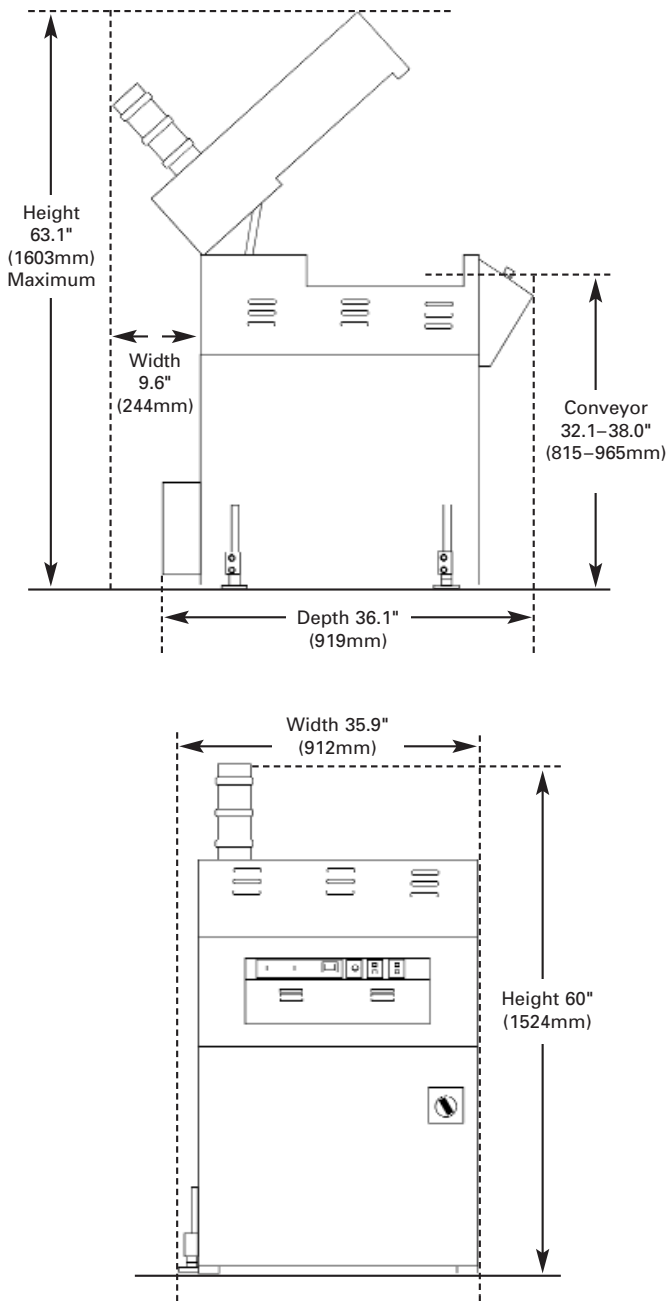
- > Handles multiple substrate sizes and carriers (Auer® boats, JEDEC trays, ceramic substrates and lead frames) *without* special tooling.

GLOBAL COMPATIBILITY

- > SMEMA compatible for in-line automation integration.
- > Compatible with lower Asian Height and European Height standards.
- > Designed to CE and Semi-S2 Standards.

TYPICAL APPLICATIONS

- > Flip chip underfill on FR4, G10, ceramic, flex and various other substrates.
- > Dam & fill encapsulation, glob top, and fill on FR4, G10, ceramic and flex.



CAMALOT Hot•Trac SPECIFICATIONS	
MECHANICAL DIMENSIONS	
Length x Width x Height (SMEEMA)	36.1" x 35.9" x 60" (919 x 912 x 1524mm) includes 13" (330mm) light tower
Height with the hood in the up position	63.1" (1603mm)
Weight (approx.)	500 lbs. Maximum (226.8 kilograms)
SUBSTRATE SIZE RANGE	
Min X/Y	3.937" (100mm) x 1.378" (35mm)
Max X/Y	12.75" (324mm) x 10.5" (266mm)
Thickness	0.010" (.381mm) to 0.400" (10mm)
Conveyor width range	1.38" (35mm) to 10.5" (457mm)
Board thickness	0.010" (.381mm) to 0.400" (10mm)
Board clearance	0.158" (4mm) edge clearance 1.0" (25mm) under board clearance 0.625" (15.875mm) of top side conveyor clearance
Max belt temperature	150°C
OVEN	
2 zones non-contact convection heating system	
Equipment Temp. Range	Ambient to 130°C +/- 5°C
Max Board Temp. Range	Ambient to 90°C +/- 5°C
Max Heating Ramp Rate	3°C/Sec
CONTROL SYSTEM	
Microprocessor-based PC Board Controller for conveyor operation and temperature control communications	
Heater set points for high and low alarms	
Recipe Storage for up to ten (10) recipes	
Keypad display for easy user interface	
POWER SYSTEM	
Power requirements	208 to 240V, 3 Phase, or 380 to 415V, at 40 Amps peak service, 4 wire (international standards) 50/60 Hz
Environmental conditions	Temperature: 66°F (19°C) to 90°F (32°C)
Humidity	30-70%
Cleanroom	Class 10,000 capable
<i>Specifications subject to change without notice.</i>	


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