



# SCS PRECISIONHEAT

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The SCS PrecisionHeat infrared radiation (IR) thermal preheating system is ideal for heating substrates prior to dispensing underfill materials. The two-zone system has 12 ceramic heaters per zone for even heating. The final zone is equipped with an IR temperature probe, providing users with real-time temperature feedback and control over the heating cycle.

The PrecisionHeat can operate as a stand-alone machine or fully integrate with the SCS PrecisionCoat selective conformal coating and dispense system. The preheat system features Windows®-based software with a touchscreen monitor and is designed for continuous operation, requiring minimal downtime for maintenance.



## SYSTEM FEATURES

- Heating profile database
- Independently-controlled heating zones
- IR board temperature monitoring
- Pin-chain-edge handling
- Left to right conveyor travel
- Powered conveyor width adjust
- 4-inch top and bottom pass-through heights
- Double-walled heat enclosure
- Optical inlet/outlet sensors
- Windows-based software with touchscreen display
- Side access panels
- Automatic runaway heater shutdown
- Exhaust interlock sensor
- SMEMA interface

## OPTIONS

- Tower light
- Temperature profiling and analysis
- Barcode reader
- Right to left conveyor travel
- Automated programmable width



## SCS PRECISIONHEAT SPECIFICATIONS

Heat source	Ceramic infrared heating units
Ceramic heater temperature	Maximum temperature: 275°C / 525°F
Electrical options	208, 220, 230, 420, 440, 460 Vac, 3Ø, 50/60 Hz, 7 KVA
Exhaust requirements	350 CFM / 155 m³/hr at 0.2 in water column
Conveyor type	Pin-chain-edge handling with 0.375 in / 0.95 cm pin chain
Conveyor speed	0.5 to 120 in/min / 1 to 300 cm/min
Substrate width	2.5 to 20 in / 6.5 to 50.8 cm
Substrate length	Minimum length: 4 in / 10.2 cm
Drive system	Direct-drive stepper motor
Tunnel clearance	4 in / 10 cm (top and bottom)
System Dimensions (W x D x H)	74.5 x 39.6 x 50 in / 89.2 x 100.7x 119.3 cm
Weight, skidded	750 lb / 340 kg

## INNOVATIVE SOLUTIONS FOR ADVANCED TECHNOLOGIES

With over 50 years of experience and locations around the world, Specialty Coating Systems is the global leader in conformal coating technologies. This extensive coating and application experience is leveraged on each and every customer project, including the industry-leading systems that SCS designs and manufactures. From conformal coating, dispensing and cure systems to ionic contamination test systems, SCS equipment is used in environments that range from university and research labs to high-volume production facilities. SCS' proactive approach to production and quality requirements—testing, validating, documenting and processing—enables customers and their advanced technologies to meet the most challenging industry specifications and quality requirements.



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