



SPECIALTY COATING SYSTEMS™



SCS Precisioncure TC

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The SCS Precisioncure TC offers manufacturers reliability and efficiency in a robust convection thermal cure system. The easy-to-use system delivers highly efficient, consistent heat transfer throughout the entire curing process. Designed for maximum performance, the Precisioncure TC features a single chamber design and is available with 3 or 7 heating zones to cure a wide variety of materials. Each zone is heated via top forced convection technology and features independent closed-loop blower speed control, which ensures stable thermal performance.

The Precisioncure TC is fully automated, with programmable process set-up and a conveyor that seamlessly mates with the SCS Precisioncoat for unattended coating and curing. The system features an electromechanical power lift hood for access to the process chamber, and removable or hinged panels for easy access to all major assemblies for maintenance.

SCS Precisioncure TC Features

- High volume forced convection heating technology
- User-friendly, Windows®-based user interface with data logging capabilities
- Electromechanical power lift of hood for process chamber access
- Electromechanical power lift of process chamber for chamber access
- Full length process cavity
- 2-in to 20-in process width with 4-in top and bottom pass through heights
- Auto-adjust, extended pin-chain conveyor
- Width adjust encoders continually track movement
- Independent closed-loop blower control
- Continuous monitoring and verification feature

Safety & Compliance

- Four emergency stop switches
- SMEMA conformance
- NFPA 79
- CE compliance
- UL listing



SCS Precisioncure TC Specifications

Model Numbers	Model 2331	Model 2341	Model 2741
Number of Zones	3 zones	3 zones	7 zones
Process Width	Minimum: 2.0 in / 5.1 cm Maximum: 20 in / 50.8 cm	Minimum: 2.0 in / 5.1 cm Maximum: 20 in / 50.8 cm	Minimum: 2.0 in / 5.1 cm Maximum: 20 in / 50.8 cm
Process Height	4.0 in / 10.1 cm, above and below	4.0 in / 10.1 cm, above and below	4.0 in / 10.1 cm, above and below
Process Chamber Length	83 in / 210.8 cm	105.7 in / 268.5 cm	105.7 in / 268.5 cm
Heat Source	Forced convection	Forced convection	Forced convection
Operating Temperature	Up to 100°C (212°F)	Up to 100°C (212°F)	Up to 350°C (662°F)
Heater Power Rating	3 kW per active heating zone	3 kW per active heating zone	4 @ 3 kW, 3 @ 5 kW per active heating zone
Zone Dimensions	Length: 13.6 in / 34.5 cm each Width: 29.1 in / 73.9 cm each	Length: 13.6 in / 34.5 cm each Width: 29.1 in / 73.9 cm each	Length: 13.6 in / 34.5 cm each Width: 29.1 in / 73.9 cm each
Conveyor Speed	5 to 70 in/min / 13 to 178 cm/min	5 to 70 in/min / 13 to 178 cm/min	5 to 70 in/min / 13 to 178 cm/min
Conveyor Type	Auto-adjust, variable width, extended pin chain	Auto-adjust, variable width, extended pin chain	Auto-adjust, variable width, extended pin chain
Pin Length	0.19 in / 0.48 cm Optional: 0.12 in / 0.30 cm	0.19 in / 0.48 cm Optional: 0.12 in / 0.30 cm	0.19 in / 0.48 cm Optional: 0.12 in / 0.30 cm
Electrical	208-240 VAC, 3Ø, 50/60 Hz	208-240 VAC, 1Ø, 50/60 Hz	440-480 VAC, 3Ø, 60 Hz
Exhaust Requirements	Load-end: Minimum 150 CFM / 255 m ³ /hr Unload-end: Minimum 300 CFM / 510 m ³ /hr	Load-end: Minimum 150 CFM / 255 m ³ /hr Unload-end: Minimum 300 CFM / 510 m ³ /hr	Load-end: Minimum 150 CFM / 255 m ³ /hr Unload-end: Minimum 300 CFM / 510 m ³ /hr
Machine Length	134 in / 350.5 in	191.5 in / 486.3 cm	191.5 in / 486.3 cm
Machine Width	53.8 in / 136.7 cm	53.9 in / 136.7 cm	53.9 in / 136.7 cm
Machine Height	48.9 in / 124.1 cm	48.9 in / 124.1 cm	48.9 in / 124.1 cm

Innovative solutions for advanced technologies.

Specialty Coating Systems leads the industry in providing Parylene solutions for its global customers' advanced technologies. SCS is a direct descendant of the companies that originally developed Parylene, and we have more than 40 years of experience and expertise that we leverage on every project for our customers—from the initial planning phases, to advanced engineering, to the development of application processes.

Our worldwide resources include highly experienced sales engineers, some of the world's foremost Parylene specialists, and expert manufacturing personnel, working in eleven state-of-the-art coating facilities around the globe. In addition to Parylene coating services, we design and manufacture industry-leading Parylene deposition systems; liquid spray, dip and spin coating systems; ionic contamination test systems; and UV and thermal cure units. Our equipment is used in environments that range from university and research labs to high-volume production applications.

Our extensive and proactive approach to production and quality requirements—testing, validating, documenting and processing—provides our customers peace of mind and minimizes their resources needed to meet the most challenging industry specifications and quality requirements.



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