

Prey By Detech



PowerOven Series Machine Brochure

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PowerOven Series

Lead Free Reflow Oven

The PowerOven series offers several oven lengths that offer a combination of high-mass heat sources and effcient thermal transfer, allowing for excellent reflow soldering results and throughput with a shorter-than-average heating tunnel.

Our PowerOvens include a wide combination pin-over-mesh belt conveyor, consisting of a 570mm wide mesh conveyor belt combined with a 450mm pin conveyor, This conveyor transports the PCB through the 2,050mm or greater heated tunnel at a controllable and adjustable speed giving the flexibility to create the correct profile for even the most complex PCBs. Every machine variant from the PowerOven series includes two large cooling zones to ensure a reliable and correct solder joint formation while maintaining board integrity.

The PowerOven range has several variants to allow for anything from low throughput to high volume manufacturing, offering a reliable and effective solution to the challenges posed by todays ever changing mix and complexity of SMT Manufacturing. The PowerOvens are all designed with a compact principle in mind as we understand that factory space is almost always at a premium, The efficient energy transfer capabilities mean that power usage is kept to a minimum.



The combination of heat transfer efficiency, smaller footprint and the controllable heat up times, mean that the PowerOven offers an exceptional return on investment compared to many other models available in the market today.

Contact us for more information or to request a live demonstration at sales@detech-europe.com or call us on +44 (0)1262 409944

Key Features



Individually Controlled Zones



Automatic Chain Lubrication



High Quality Electrical Wiring

Technical Specifications

	PowerOven6	PowerOven8	PowerOven10
Operating / Max Power	48KW	60KW	60KW
PCB Dimensions	Upto 450mm Wide	Upto 450mm Wide	Upto 450mm Wide
PCB Top / Bottom Clearance	30mm / 25mm	30mm / 25mm	30mm / 25mm
Machine Dimensions	4.1m x 1.51m x 1.55m	4.8m x 1.51m x 1.55m	5.5m x 1.51m x 1.55m
Net Weight	1,700kg	2,000kg	2,100kg
Power Requirements	380VAC/50Hz 3Ph	380VAC/50Hz 3Ph	380VAC/50Hz 3Ph
N2 Requirements (Optional)	20 - 30 M3/h	N/A	N/A
Exhaust Requirements	3 Vents, 400CFM Each 3 Vents, 400CFM Each 3 Vents, 400CFM Each		
Industrial PC	Included	Included	Included
Control Type	Software Controlled	Software Controlled	Software Controlled
Heated Board Width	570mm	570mm	570mm
Mesh Belt Width	570mm	570mm	570mm
Mesh Belt Clearance	65mm	65mm	65mm
Pin Conveyor Min/Max Width	50mm / 450mm	50mm / 450mm	50mm / 450mm
Pin Conveyor Clearance	30mm	30mm	30mm
Automatic Chain Lubrication	Yes	Yes	Yes
Conveyor Speed	400 - 1,800mm/min	400 - 1,800mm/min	400 - 1,800mm/min
Conveyor Height	900mm +/- 20mm	900mm +/- 20mm	900mm +/- 20mm
Conveyor Direction	Left to Right	Left to Right	Left to Right
Component Max Heght	T: 30mm B: 25mm	T: 30mm B: 25mm	T: 30mm B: 25mm
	2 - 20		
Controlled Heating Zones	12 Zones, T: 6 B:6	16 Zones, T: 8 B:8	20 Zones, T: 10 B:10
Temperature Accuracy	+/- 1°C		
Temperature Tolerance	+/- 2°C	+/- 2°C	+/- 2°C
Temperature Range	Ambient - 350°C	Ambient - 350°C	Ambient - 350°C
Time To Heat Up From Cold	< 15 Minutes	< 15 Minutes	< 15 Minutes
Profiling Channels	3 Thermocouples	3 Thermocouples	3 Thermocouples
Standard Cooling Method	Air Cooling	Air Cooling	Air Cooling
Internal Chilled Water Cooling	Optional	Optional	Optional
Number of Cooling Zones	2 Air, 1 Water Chiller	2 Air, 1 Water Chiller	2 Air, 1 Water Chiller
Cooling Tunnel Length	900mm For Both	900mm For Both	900mm For Both



Make things simple...

Detech Europe Limited

The Farm Office, Model Farm, Atwick Road, Bewholme, East Riding of Yorkshire, United Kingdom Phone: +44 (0) 1262 409944

Email: sales@detech-europe.com Website: www.detech-europe.com