

All machines shown with optional color vision systems.



System PHM 1-1 Sliding Pulsed Heat Machine



System PHM 2-2 Rotary Pulsed Heat Machine



SmarTherm HSM Series Heat Sealing Machine

System Specifications	System PHM 1-1	System PHM 2-2
Dimensions	690mm(D)x520mm(W)x800mm(H)	840mm(D)x790(W)x780mm(H)
Weight	82 kg	120 kg
Work Table Type	Sliding	Rotary
Vacuum	1 Set	2 Sets
Air Supply	0.4 to 0.6 MPa	
Power Consumption	AC110V, 60Hz, 15 Amp max.	
Working Area	150mm x 200mm (normal); 250mm x 200mm (maximum)	
Thermode Specifications		
Maximum Thermode Area	400 mm ²	
Maximum Thermode Length	100 mm (normal)	
Force Range	30 N @ 0.09 MPa to 600 N @ 0.6 MPa	
Thermode Stroke	50 mm	
Force Accuracy	± 2 N	
Actuation Type	Pneumatic	
Pulsed Heat Control Specifications		
Temperature Range	1° C Interval	
Idle	0 to 150° C	
Preheat	0 to 500° C	
Reflow	0 to 500° C	
Time Periods	1 Second Interval	
Preheat	0 to 200 Seconds	
Reflow	0 to 200 Seconds	
Heating Rate Control	Eight (8) Selections	
Programmable Heat Profiles	Four (4) Internal Memory	
Thermode Cooling	Air For Cooling Thermode	

SmarTherm HSM
Compressed Air 4 to 6 Bar
Vacuum Flow Rate 24L/min Maximum
Electrical Power 220 or 110 Vac (Factory Preset)
Weight Net: 91Kg, Gross 159Kg
SmarTherm Product Handling
Alignment Method Visual with CCD Camera (Optional)
Product Fixture 2 Sets
Table Rotating Method Manual (HSM 2-1) Pneumatic (HSM 2-2)
Standard Working Area 200mm x 150mm
Maximum Working Area 200mm x 260mm
SmarTherm Heat Sealing Parameters
Temperature Range 50° to 400°C
Temperature Accuracy ± 1°C
Bond Timer (selectable) 0 to 5, 0 to 12 or 0 to 30 Seconds
Bond Air Pressure 1.2 to 6.0 Bar (0.1 to 0.6 MPa)
Pressure Accuracy ±0.5 Bar (±0.05 MPa)
Maximum Bonding Force 1,175 N Maximum (up to 3,900 N Optional)

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