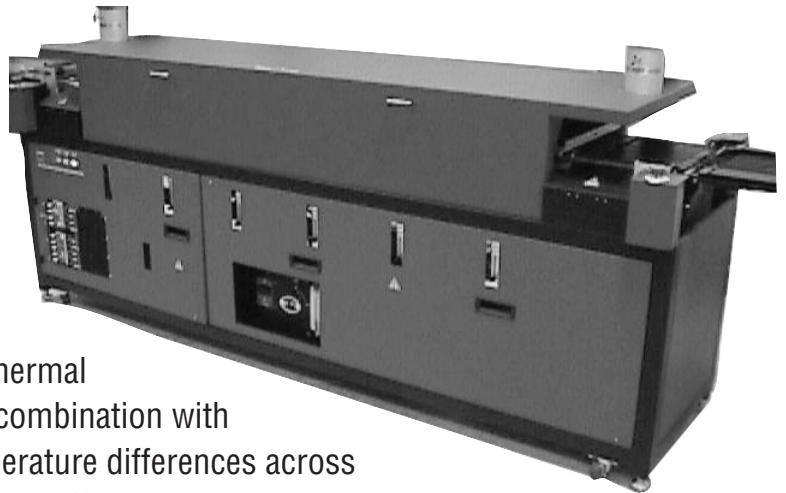


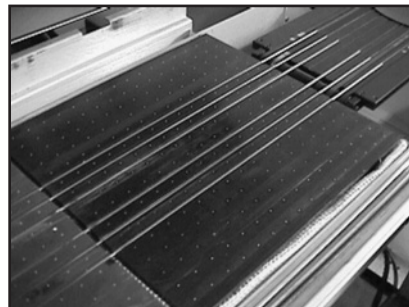
Falcon 8500, 8100 & 1200 Walking Beam Systems

Sikama International has developed a new type of transport system for the Falcon 8500, the Falcon 8100, and the Falcon 1200 Reflow and Curing systems. The new transport system, called a “walking beam”, incorporates beams that span the length of the furnace and allow for smooth, accurate, and safe transport of the most critical substrates. It’s simple and robust design enhances the performance of the patented thermal technology based on conduction heating in combination with forced thermal convection by reducing temperature differences across the substrate surface. Transitional temperature differences are eliminated by heating and cooling the entire substrate at the same time. The design “lifts” the substrate from the bottom, eliminating any chance of backside scratching or product breakage.



FEATURES

- ◆ Substrate is picked up and moved from zone to zone
- ◆ Eliminates backside scratching or wear of product/fixtures
- ◆ Simplified maintenance and cleaning
- ◆ Eliminates product breakage
- ◆ SMEMA compatible
- ◆ Simple robust design



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WALKING BEAM TRANSFER SYSTEMS

Falcon 8500, 8100 & 1200 Walking Beam Systems

TYPICAL SPECIFICATIONS

	FALCON 8500	FALCON 8100	FALCON 1200
Heating Zones	5	10	7
Cooling Zones	1	2	1
Total Zones	6	12	8
Platen Size	8 in W x 12 in L	8 in W x 6 in L	12.5 in W x 13.5 in L
Min. Substrate Size	3 inches	3 inches	3 inches
Max Substrate Size	8 in W x 11 in L	8 in W x 5 in L	12 in W x 12 in L
Weight Limit	Approx. 2.5 lbs	Approx. 2.5 lbs	Approx. 2.5 lbs
Dwell & Travel Time	10 sec. – 99 min, 59 sec.	14 sec. – 99 min, 59 sec.	16 sec. – 99 min, 59 sec.
Temperature (Std.)	Up to 420C	Up to 420C	Up to 420C
Temp. Accuracy	+/- 2C	+/- 2C	+/- 2C
Warm-up to 230C	15 min. approx.	15 min. approx.	15 min. approx.
Coolant Flow	.5 to 2 GPM	.5 to 2 GPM	.5 to 2 GPM
Alarms	Over/Under Temperature, Gas Flow, Coolant Flow and Temperature, Motor Torque, SMEMA (or other) Interface	Over/Under Temperature, Gas Flow, Coolant Flow and Temperature, Motor Torque, SMEMA (or other) Interface	Over/Under Temperature, Gas Flow, Coolant Flow and Temperature, Motor Torque, SMEMA (or other) Interface
Parts Flow (specify)	L to R or R to L	L to R or R to L	L to R or R to L
Gas Consumption	1000 CFH	1000 CFH	1200 CF
O2 Level	<25 PPM (process dependent)	<25 PPM (process dependent)	<25 PPM (process dependent)
Voltage (specify)	200-240 VAC, 50-60 Hz, 1 or 3 Ph	200-240 VAC, 50-60 Hz, 1 or 3 Ph	200-240 VAC, 50-60 Hz, 3 Phase
Start-up Power	10kW @ 240 VAC	0kW @ 240 VAC	33 kW @ 240 VAC
Power Consumption	50% Duty Cycle or less	50% Duty Cycle or less	50% Duty Cycle or less
Basic Unit Weight	750 lbs	750 lbs	1000 lbs
Basic Dimension	L 126 x W 28 x H 45 inches L 140 with paddle adapters	L 140 x W 28 x H 45 inches L 140 with paddle adapters	L 178 x W 24 x H 45 inches L 178 with paddle adapters



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