

EM Series LCD/TFT & PDP Production & Repair Pulsed Heat Systems (formerly known as Emerald)

AMADA WELD TECH offers a full product line of LCD/ PDP Bonding and Repair Systems. The Emerald Series is designed for a wide variety of TAB and Flex sizes and can handle panel sizes ranging from 1" up to 65". The EM Series LCD/TFT & PDP Production & Repair Pulsed Heat Systems is highly flexible and can be used for ACF tacking, ACF Final Bonding and Hot Bar soldering. EM Series LCD/TFT & PDP Production & Repair Pulsed Heat Systems have a flipper X-Y-Z-Phi module for accurate positioning. Multiple thermode dimensions are available and a quick connect block enables fast and easy thermode change. The system can be extended with an upgrade package for the high precision motorized bonding head. We also have several modules, such as screen splitter function with PC, manual or automatic interposer system which can be added to the standard system.

Key Features EM Series LCD/TFT & PDP Production & Repair Pulsed Heat Systems

- > Supporting all TAB/Flex sizes and almost all LCD/PDP panels
- > Fine pitch alignment
- > ACF tacking, Heat-Seal bonding and Hot Bar Reflow Soldering all in one system
- > Dual look-up cameras for alignment and track & marker recognition
- > Reliable process control, based on proven technology of the Uniflow power supply
- > High precision pneumatic bonding head ensures consistent process results
- > Optional 1" to 6" panel support

Specifications EM Series LCD/TFT & PDP Production & Repair Pulsed Heat Systems (formerly known as Emerald)

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TAB sizes minimum L x W mm	8 x 5		
Tab sizes maximum L x W mm	150 x 66		
Chip (COG) sizes minimum L x W mm	5 x 1		
Chip (COG) sizes maximum L x W mm	50 x 10		
Flex sizes minimum L x W mm	8 x 5		
Flex sizes maximum L x W mm	150 x 50		
Customised shapes	Customised shapes and sizes out of min/max on request		
Thermode (Hot Bar) type	Thermo-plane Thermode		
Thermocouple type	K-type		
Temperature controller	Uniflow power supply		
Air supply	6 - 8 bar, dry & filtered air		
Power requirements	16A, 230 VAC, 50/60 Hz - 16A, 110 VAC, 50/60 Hz (Hot Bar)		
Operating temperature	15 - 40 °C		
Panel sizes	25.4 - 635 mm diagonal		
Product handling standard / optional	PHS-25 / PHS 45 or PHS-65		
Dimensions EM-P045A: HxWxD (mm)	2050 x 2250 x 1405		
Weight	650 kg		
Panel sizes	25.4 - 1143 mm diagonal		
Product handling standard / optional	PHS-45 / PHS-65		
Dimensions EM-P065A: HxWxD (mm)	2050 x 3050 x 1705		
Weight	650 kg		
Panel sizes	25.4 - 1651 mm diagonal		
Product handling standard	PHS-65		
BONDING HEAD SPECIFICATIONS			
Force range	SH500	PH500	SH1250
Head actuation method	Pneumatic	Motorised	Pneumatic
Bonding force	Adjustable	Programmable	Adjustable
Force range (N)	40-500	250-1250	20-2500
Hot Bar stroke mm	50		
Hot Bar sizes L min - L max mm	4-150		
Hot bar sizes W min - W max mm	1-5		
Temperature range Idle	25 to 100 °C	Heat	60 to 600 °C
Temperature range Baseheat	25 to 300 °C	Heat Extended Range	60 to 999 °C
Temperature range Preheat	60 to 300 °C	Postheat	25 to 600 °C

Time period (in 0,1 sec increments) Base Heat	0 to 99.9 seconds	Rise to Heat Time	0 to 9.9 seconds
Time period (in 0,1 sec increments) Rise to preheat time	0 to 9.9 seconds	Heat	0.1 to 99.9 seconds
Time period (in 0,1 sec increments) Preheat	0 to 99.9 seconds or continuous	Postheat	25 to 600 °C
Communication ports	RS-232, RS-485		
WEIGHT & DIMENSIONS			
Dimensions EM-P025A : HxWxD (mm)	2050 x 1200 x 900		
Weight	600 kg		



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TAB sizes minimum L x W mm		
Tab sizes maximum L x W mm		
Chip (COG) sizes minimum L x W mm		
Chip (COG) sizes maximum L x W mm		
Flex sizes minimum L x W mm		
Flex sizes maximum L x W mm		
Customised shapes		
Thermode (Hot Bar) type		
Thermocouple type		
Temperature controller		
Air supply		
Power requirements		
Operating temperature		
Panel sizes		
Product handling standard / optional		
Dimensions EM-P045A: HxWxD (mm)		
Weight		
Panel sizes		
Product handling standard / optional		
Dimensions EM-P065A: HxWxD (mm)		
Weight		
Panel sizes		
Product handling standard		
BONDING HEAD SPECIFICATIONS		
Force range	PH1250	PH2500
Head actuation method	Motorised	Pneumatic
Bonding force	Programmable	Adjustable
Force range (N)		
Hot Bar stroke mm		
Hot Bar sizes L min - L max mm		
Hot bar sizes W min - W max mm		
Temperature range Idle		
Temperature range Baseheat		
Temperature range Preheat		
Time period (in 0,1 sec increments) Base Heat		
Time period (in 0,1 sec increments) Rise to preheat time		
Time period (in 0,1 sec increments) Preheat		
Communication ports		
WEIGHT & DIMENSIONS		

Dimensions EM-P025A : HxWxD (mm)

Weight

Product applications EM Series LCD/TFT & PDP Production & Repair Pulsed Heat Systems (formerly known as Emerald)



LCD panel application

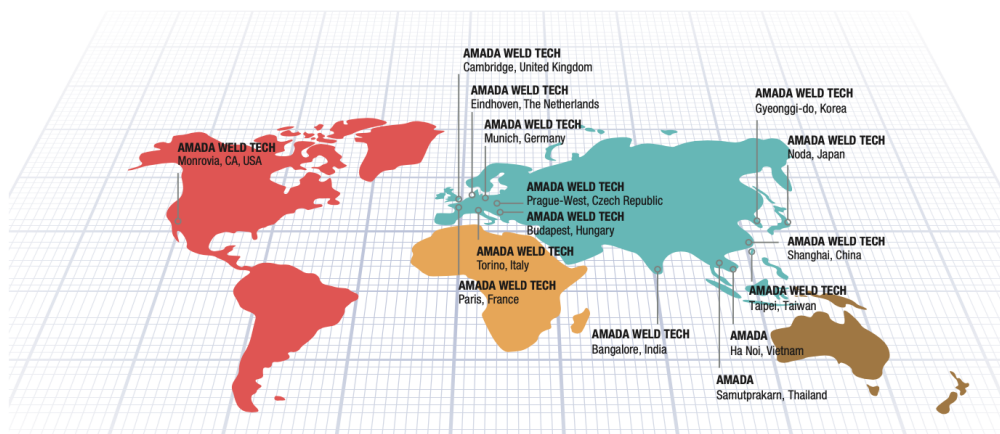
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