

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

AMADA WELD TECH offers a full product line of LCD/ PDP Bonding and Repair Systems. The EM 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 system is highly flexible and can be used for ACF tacking, ACF Final Bonding and Hot Bar soldering. EM 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 Constant Heat Systems

- > Supporting all TAB/Flex sizes and almost all LCD/PDP panels
- > Fine pitch alignment
- > ACF tacking, Heat-Seal bonding
- > Hot Bar Reflow Soldering all in one system
- > Dual look-up cameras for alignment and track & marker recognition
- > Constant heat bonding technology with temperature controller and programmable timer
- > High precision pneumatic bonding head ensures consistent process results
- > Optional 1" to 6" panel support

Specifications EM Series LCD/TFT & PDP Production & Repair Constant Heat Systems (formerly known as Emerald) 1/2

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		
Customized shapes and sizes out of min/max on request			
Thermode (Hot Bar) type	Metal Constant Hot Bar		
Thermocouple type	K-type		
Temperature controller	Constant Heat Temperature Controller		
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		
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		
W min - W max mm	1-5		
WEIGHT & DIMENSIONS			
Dimensions EM-C025A : HxWxD (mm)	2050 x 1200 x 900		
Weight	600 kg		
Panel sizes	25.4 - 635 mm diagonal		
Product handling standard / optional	EM-P025A / EM-P045A or EM-P065A		
Dimensions EM-C045A : HxWxD (mm)	2050 x 2250 x 1405		
Weight	650 kg		
Panel sizes	25.4 - 1143 mm diagonal		
Product handling standard / optional	EM-P045A / EM-P065A		
Dimensions EM-C065A : HxWxD (mm)	2050 x 3050 x 1705		
Weight	650 kg		
Panel sizes	25.4 - 1651 mm diagonal		
Product handling standard	EM-P065A		

Specifications EM Series LCD/TFT & PDP Production & Repair Constant Heat Systems (formerly known as Emerald) 2/2

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		
Customized shapes and sizes out of min/max on request		
Thermode (Hot Bar) type		
Thermocouple type		
Temperature controller		
Air supply		
Power requirements		
Operating temperature		
BONDING HEAD SPECIFICATIONS		
Force range	PH1250	BH2500
Head actuation method	Motorised	Pneumatic
Bonding force	Programmable	Adjustable
Force range (N)		
Hot Bar stroke mm		
Hot Bar sizes L min - L max mm		
W min - W max mm		
WEIGHT & DIMENSIONS		
Dimensions EM-C025A : HxWxD (mm)		
Weight		
Panel sizes		
Product handling standard / optional		
Dimensions EM-C045A : HxWxD (mm)		
Weight		
Panel sizes		
Product handling standard / optional		
Dimensions EM-C065A : HxWxD (mm)		
Weight		
Panel sizes		
Product handling standard		

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



LCD panel application

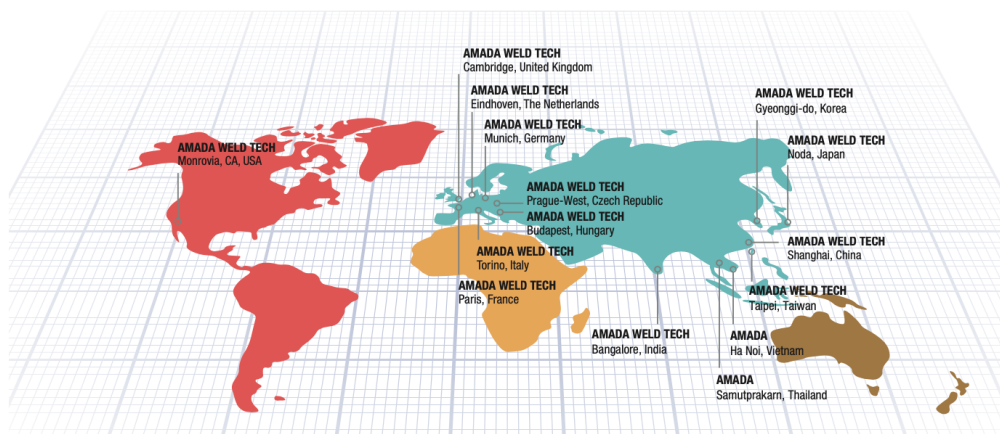
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AMADA WELD TECH

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