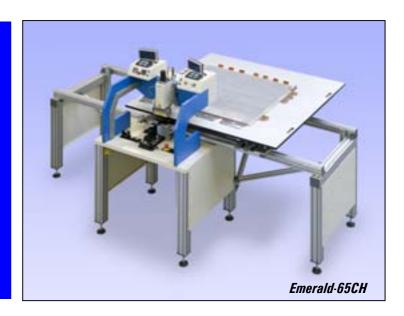
EMERALD SERIES

CONSTANT HEAT TECHNOLOGY

FLAT PANEL BONDING AND REPAIR APPLICATIONS

- Small to large LCD/PDP panels
- Supporting all TAB/COG/ Flex sizes
- Fine pitch alignment
- ACF Tacking, Heat Seal
 Bonding and Hot Bar
 Soldering all in one system



UNITEK EAPRO offers a full product line of LCD/PDP Bonding and Repair systems. The Emerald Series are designed for a wide variety TAB/COG/Flex sizes and can handle panel sizes ranging from 1" up to 65". The Emerald highly flexible system can be used for ACF Tacking, ACF Final Bonding and Hot Bar Soldering.

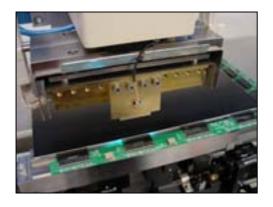
Main Features:

- Constant heat bonding technology with temperature controller and programmable timer.
- High precision pneumatic bonding head, with adjustable force, ensures consistent process results.
- Dual Look-Up cameras for fine pitch alignment down to 30 microns. Track and marker recognition while Hot Bar is on top of the bonding position.
- Flipper X-Y-Z-Phi module for accurate positioning of the TAB/COG/Flex.
- Multiple thermode dimensions are available.
- Quick Connect Block enables fast and easy thermode change.

Options include:

- High precision motorized bonding head upgrade package.
- High force range upgrade package.
- PDP upgrade package including dual Look-Down cameras and metal support block.
- COG upgrade package including chip holder.
- Screen splitter function with PC.
- Manual or automatic interposer system.







SYSTEM SPECIFICATIONS	EMERALD-25CH	EMERALD-45CH	EMERALD-65CH				
Dimensions H x W x D							
mm	2050 x 1200 x 900	2050 x 1200 x 900 2050 x 2250 x 1405 205					
Inches	80.7 x 47.2 x 35.4	80.7 x 88.6 x 55.3	80.7 x 120.1 x 67.1				
Weight Kg (Lbs)	600 (1323)	650 (1433)	650 (1433)				
Panel sizes mm (Inches)	25.4 – 635 (1 – 25)	25.4 – 1143 (1 – 45)	25.4 – 1651 (1 – 65)				
TAB sizes minimum L x W mm (Inches)	8 x 5 (0.31 x 0.20)						
TAB sizes maximum L x W mm (Inches)	150 x 66 (5.91 x 2.60)						
Chip (COG) sizes minimum L x W mm (Inches)	5 x 1 (0.20 x 0.04)						
Chip (COG) sizes maximum L x W mm (Inches)	50 x 10 (1.97 x 0.40)						
Flex sizes minimum L x W mm (Inches)	8 x 5 (0.31 x 0.20)						
Flex sizes maximum L x W mm (Inches)	150 x 50 (5.91 x 1.97)						
Customized shapes	customized shapes and sizes out of min/max on request						
Product Handling Standard	PHS-25	PHS-45	PHS-65				
Optional	PHS-45	PHS-65					
	PHS-65						
Thermode (Hot Bar) Type	Metal Constant Hot Bar						
Thermocouple type	К-type						
Temperature Controller	Constant Heat Temperature Controller						
Air supply bar (PSI)	6-8 (80 $-$ 100), dry and filtered air						
Power consumption	16A, 230VAC, 50/60 Hz						
	16A, 110VAC, 50/60 Hz (Hot Bar \leq 60 mm)						
Operating temperature °C (°F)	15 – 40 (60 – 104)						

BONDING HEAD SPECIFICATIONS						
Features / Head Module	SH500	PH500	SH1250	PH1250	BH2500	
Head actuation method	Pneumatic	Motorized	Pneumatic	Motorized	Pneumatic	
Bonding Force	Adjustable	Programmable	Adjustable	Programmable	Adjustable	
Force Range N	20 – 500		20 – 1250		20 – 2500	
Lbs	4 – 110		4 – 276		4 – 552	
Hot Bar Stroke mm (Inches)	25 (0.98)					
Hot Bar Sizes						
L min – L max mm (Inches)	4 – 150 (0.16 – 5.9)					
W min – W max mm (Inches)	1 – 5 (0.04 – 0.20)					





Your local Representative



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