

SEMI-AUTOMATIC COG PRE-BOND MACHINE TM-807C



OVERVIEW

Semi-Automatic COG Pre-Bonding Machine TM-807C is specifically designed for pre-bonding a wide array of IC to LCD panels. TM-807C offers several variation in handling IC and LCD. Alignment, placement of IC and pre-bonding process can be completed in a fully automatic operation with only loading and unloading of substrates done manually by operators. The machine can be activated using the ergonomically designed Optical Touch Button.

This system is integrated with *Cherusal*TM Constant Heat Controller for repeatable and accurate temperature control. It is equipped with a unique Frame Grabber Vision system and magnified to 400X enabling automatic alignment of IC to LCD.

FEATURES & BENEFITS

- Maximum productivity can be achieved with the integrated Dual Pre-bonding head that allows up to 2 substrates to be loaded each time
- Automatic program pick-up of IC
- Automatic IC X/Y Orientation Mechanism
- Ability to handle IC and substrates of various sizes
- LCD touch panel for parameter settings and real time display of IC alignment images
- Co-planarity Adjustment Mechanism
- Unique Frame Grabber System for alignment

SEMI-AUTOMATIC COG PRE-BOND MACHINE TM-807C

SPECIFICATIONS

Machine Specs		
Power Supply	Single Phase, 230 V \pm 10%, 50Hz/ 60Hz, 2 KVA	
Operating Ambient	23 \pm 5 °C, 40% ~ 100% Humidity, Controlled Environment	
Control System	Embedded system 17" LCD touch screen controller	
User Interface	17" TFT Touch panel	
Vacuum Source	Vacuum Ejector –84kPa x 4 No.	
Machine Dimension	1300mm (L) x 1000mm (W) x *1510mm (H) *Height: 1810mm (inclusive of tower light)	
Machine Weight	Approx. 1000kg	
Pre-Bond Specs		
Pre-Bond	Heating Method	Constant Heat
	Pre-Bond Temp.	150 °C (max)
	Pre-Bond Period	1 sec ~ 20 sec
Pressure Control	Manual Precision Regulator with Pressure Gauge	
Air Pressure Supply	Filtered Clean and Dry Air, 6 Kg/cm ²	
Pre-Bonding Force	0.5kgf ~ 12kgf (\pm 0.1kgf)	
Pre-Bonding Accuracy	\pm 3 μ m	
Heater Block Specs		
Heater Block Dimensions	26mm x 5.5mm	
Heater Block Material	Tool Steel hardened to HRC 52	
Heater Block Flatness	\pm 1 μ m	
Heating Source	Heater Cartridge	
Thermocouple Type	K Type	
Vision Systems Specs		
Camera System	Hi-resolution Camera	
Lens	Hi-resolution Tele-centric lens	
Light Source	Fiber Optics for co-axial	
Magnification	Approx. 400X	
Alignment Method	Auto-alignment with global co-ordinates	
Drive Method	X and Y axis on Servo Motor	
IC/Substrates Specs		
IC Dimensions	3mm x 1.0mm x 0.4mm ~ 25mm x 5mm x 0.8mm	
Substrate Dimensions	20mm x 20mm ~ 130mm x 200mm	
No. of IC Tray	8 trays (2" x 2" IC Trays) 2 trays (4" x 4" IC Trays) 2 trays (3" x 3" IC Trays)	4 trays (2" x 2" IC Trays) + 1 tray (3"x3" IC Trays) 4 trays (2" x 2" IC Trays) + 1 tray (4"x4" IC Trays) 2 trays (2"x2" IC Trays) + 2 trays (3"x3" IC Trays) 1 tray (3"x3" IC Trays) + 1 tray (4"x4" IC Trays)
Chip Supply Direction	IC face down	
IC Orientation Mechanism	Servo Motor on Positioning Pockets	

Specifications are subjected to change without prior notice

HEADQUARTER (SINGAPORE)



TRIMECH TECHNOLOGY PTE LTD

A member of TRIMECH Group of Companies
No.70 Ubi Crescent #01-02/03
Ubi Techpark Singapore 408570
Tel: 65-6741 0346
Fax: 65-6741 7850
Email: sales@cherusal.com
Website: www.cherusal.com



Certificate No. 651176

REGIONAL OFFICE

Shenzhen
Tel: (86) 755 8231 8767
Fax: (86) 755 8231 8763
Email: bs_tan@cherusal.com

Shanghai
Tel: (86) 21 5055 1008 ext 16
Fax: (86) 21 5834 6323
Email: james-zj_yao@cherusal.com

Hong Kong
Tel: (852) 2111 0982
Fax: (852) 2111 0983
Email: bs_tan@cherusal.com

Taiwan
Tel: (886) 3 339 5818
Fax: (886) 3 339 5855
Email: kenny-tan@cherusal.com

Thailand
Tel: (66) 2 690 2466
Fax: (66) 2 690 2467
Email: nipon_k@cherusal.com

Beijing
Tel: (86) 10 6566 2172
Fax: (86) 10 6566 2171
Email: james-zj_yao@cherusal.com

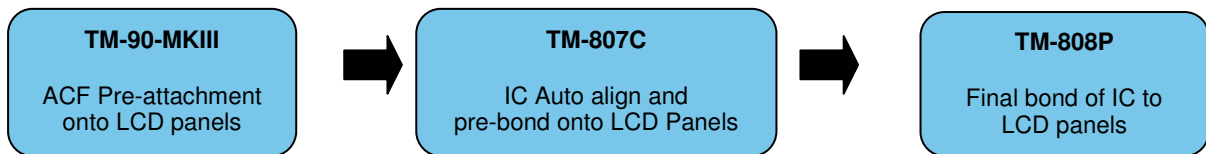
Agent or
Distributor

SEMI-AUTOMATIC COG PRE-BOND MACHINE TM-807C

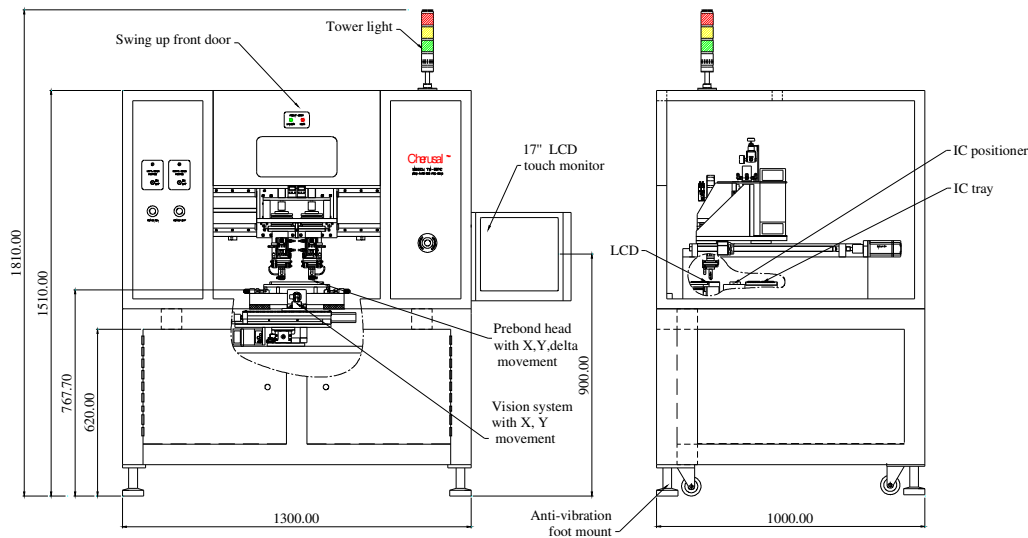
OPTIONS

- Area sensors
- Ionisers

OPTIONS FOR OTHER PRODUCTION METHODS



TECHNICAL DRAWING



HEADQUARTER (SINGAPORE)



TRIMECH TECHNOLOGY PTE LTD
A member of TRIMECH Group of Companies
No.70 Ubi Crescent #01-02/03
Ubi Techpark Singapore 408570
Tel: 65-6741 0346
Fax: 65-6741 7850
Email: sales@cherusal.com
Website: www.cherusal.com

REGIONAL OFFICE

Shenzhen
Tel: (86) 755 8231 8767
Fax: (86) 755 8231 8763
Email: bs_tan@cherusal.com

Shanghai
Tel: (86) 21 5055 1008 ext 16
Fax: (86) 21 5834 6323
Email: james-zj_yao@cherusal.com

Hong Kong
Tel: (852) 2111 0982
Fax: (852) 2111 0983
Email: bs_tan@cherusal.com

Taiwan
Tel: (886) 3 339 5818
Fax: (886) 3 339 5855
Email: kenny-tan@cherusal.com

Thailand
Tel: (66) 2 690 2466
Fax: (66) 2 690 2467
Email: nipon_k@cherusal.com

Beijing
Tel: (86) 10 6566 2172
Fax: (86) 10 6566 2171
Email: james-zj_yao@cherusal.com

Agent or
Distributor