

ACF PRE-ATTACHMENT MACHINE TM-90-MKIII



OVERVIEW

TM-90-MKIII ACF Pre-attachment Machine is ideally suited for production needs in the attachment of Anisotropic Conductive Film (ACF) onto LCD, glass panels, flexible circuits, PCB and a wide variety of substrates. Constant heat is utilized as the heating source to ensure consistency in the temperature across the heater block. Generally, ACF is pre-attached onto the substrates prior to bonding of TAB or Flex circuits. The automatic operation process comprises of ACF lamination, peeling and half-cut operation. This high performance ACF dispensing system has the ability to handle both single and double ACF protective layer. The integrated universal ACF collet is also compatible with a wide variety of ACF.

ACF PRE-ATTACHMENT MACHINE TM-90-MKIII

FEATURES & BENEFITS

- Integrated with high accuracy constant heat controller
- ACF indexing accuracy at $\pm 0.4\text{mm}$
- High performance system that handles single or double ACF protective layer
- Half-cut mechanism
- Universal ACF Collets applicable to a wide variety of ACF
- Semi-automatic operation in linear moving stage provides fast and safe loading and unloading of substrates

- Leveling mechanism adjustment on press assembly
- Built-in vacuum
- Manual mode for machine set-up
- 20 programmable profiles can be stored electronically
- LCD touch panel controller for easy programming and parameter data storage and recall
- User pre-set password

APPLICATIONS

- Dispensing of ACF onto PCB, LCD and Flex Circuits

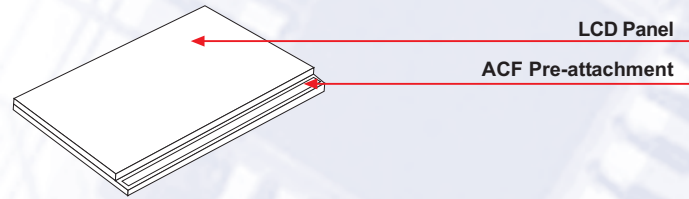
OPTIONS

- Connection to load cell (TM-29S) for measurement of bonding force

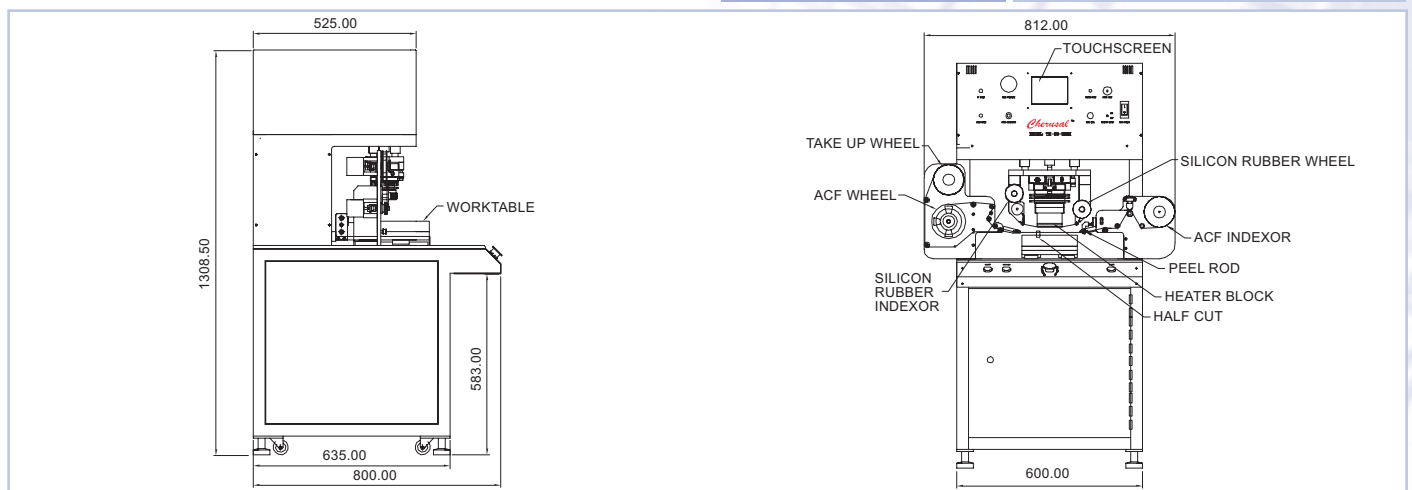
SPECIFICATIONS

Heating Method	Constant Heat
Power Requirement	220VAC +/-10%, 50/60 Hz, 0.75kVA
Operating Ambient	23°C +/-5°C, 40 to 100% humidity with no significant dust
Supply Pressure	Filtered Clean and Dry Air, 5 - 7kgf/cm ²
Programmable Profiles	20
Work Table Size	180mm x 180mm
Work Area	180mm x 180mm
LCD Panel Size	100mm x 200mm
Dimensions	810mm (L) x 800mm (W) x 1310mm (H)
Weight	117kg

Constant Heating Specifications	
Hold Temp	30°C to 300°C
Hold Period	0.1 to 25 seconds at 0.05 seconds accuracy
ACF Delay to Peel	0 to 5 seconds
ACF Tape Advance	2mm to 80mm at 0.1 interval
ACF width	1.5mm to 8mm
ACF Type	Single / Double Protective Layer
ACF Cutting Method	Half Cut
ACF Indexing Accuracy	$\pm 0.4\text{mm}$
ACF Placement Accuracy	$\pm 0.2\text{mm}$
Heater Block Specifications	
Bonding Force	3.2kgf – 75kgf
Max. Heater Block Size	5mm x 1.5mm (min) to 80mm x 8mm (max)
LCD Size	100mm x 200mm
Thermocouple Type	K Type



Specifications are subjected to change without prior notice



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