

**PULSE HEAT MACHINE**  
**TM-101PR-MKIII**  
**TM-101P-MKIII**



Pulse Heat Machine (Rotary Table)  
TM-101PR-MKIII



Pulse Heat Machine (In-out Table)  
TM-101P-MKIII

**OVERVIEW**

*Cherusal*™ Pulse Heat Machine is developed to perform a wide variety of joining applications such as ACF Bonding, HSC Bonding and TAB Soldering. The usage of pulse heating technology allows better temperature control and repeatability needed for better bonding quality. The systems are incorporated with **Intelli-Pulse** system that offers fast and accurate temperature control with easy usage as system parameters are automatically adjusted.

## PULSE HEAT MACHINE

### TM-101PR-MKIII

### TM-101P-MKIII

#### FEATURES & BENEFITS

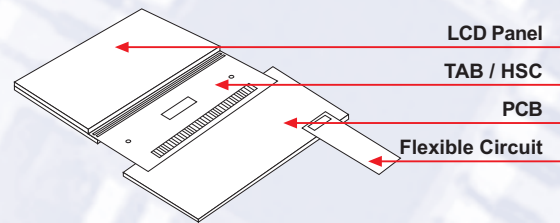
- Microprocessor based pulse heat controller offers fast heating and cooling
- 4 stage ramp temperature
- **Intelli-Pulse** system offers fast and accurate temperature control as system parameters are automatically adjusted
- Real time temperature profile display on LCD touch panel
- Interchangeable Silicone Rubber and polyamide tape indexing mechanism
- Colour or B/W CCTV Vision System for fine pitch alignment
- Leveling mechanism for co-planarity adjustment
- Electronic pressure control with digital display
- Manual mode for machine set-up
- Dual thermocouple ensures over temperature protection
- 20 programmable profiles can be stored electronically
- LCD touch screen controller for programming, storing and recalling parameter settings
- User pre-set password

#### APPLICATIONS

- ACF Bonding for Flex to PCB
- Hot Bar Soldering of Flex, TAB & FFC
- Heat Sealing to PCB/LCD
- TAB Bonding

#### OPTIONS

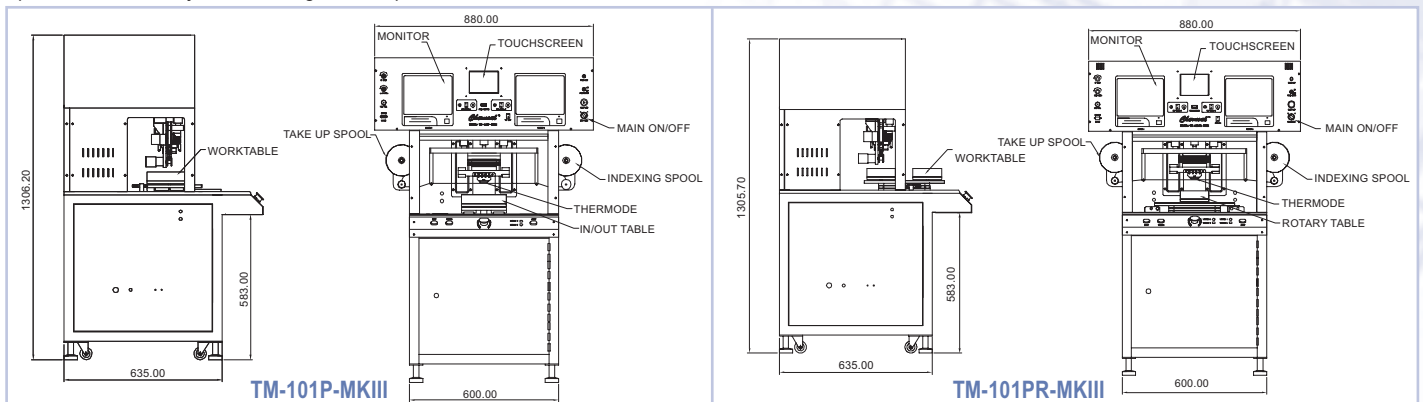
- Connection to load cell controller (TM-29S) for measurement of bonding force
- Temperature profiling & programming software



#### SPECIFICATIONS

	TM-101PR-MKIII	TM-101P-MKIII		TM-101PR-MKIII	TM-101P-MKIII
<b>Heating Method</b>	Pulse Heat	Pulse Heat	<b>Dimensions</b>	880mm (L) x 800mm (W) x 1300mm (H)	880mm (L) x 800mm (W) x 1300mm (H)
<b>Power Requirement</b>	220VAC +/-10%, 50/60 Hz, 4.5kVA	220VAC +/-10%, 50/60 Hz, 4.5kVA	<b>Weight</b>	162kg	162kg
<b>Operating Ambient</b>	23°C +/-5°C, 40 to 100% humidity with no significant dust	23°C +/-5°C, 40 to 100% humidity with no significant dust	<b>Pulse Heating Specifications</b>		
<b>Supply Pressure</b>	Filtered Clean and Dry Air, 5 – 7kgf/cm <sup>2</sup>	Filtered Clean and Dry Air, 5 – 7kgf/cm <sup>2</sup>	<b>Temperature</b>	4 stages	4 stages
<b>Programmable Profiles</b>	20	20	<b>Ramp Profile</b>		
<b>Process Mode</b>	Auto & Manual	Auto & Manual	<b>Start Temp.</b>	30°C to 300°C	30°C to 300°C
<b>Visual Aids</b>	2 sets of colour or B/W CCD	2 sets of colour or B/W CCD	<b>Ramp Temp.</b>	30°C to 450°C	30°C to 450°C
<b>Magnification</b>	50x	50x	<b>Release Temp</b>	30°C to 450°C	30°C to 450°C
<b>Work Table Type</b>	Rotary Table	In-out Table	<b>Hold Period</b>	1 to 100 seconds	1 to 100 seconds
<b>Work Table Size</b>	120mm x 120mm	120mm x 120mm	<b>Ramp Period</b>	1 to 25 seconds	1 to 25 seconds
<b>Work Area</b>	420mm x 180mm	420mm x 180mm	<b>Thermode Specifications</b>		
			<b>Bonding Force</b>	4kgf – 74kgf	4kgf – 74kgf
			<b>Max.</b>	10mm x 2mm to	10mm x 2mm to
			<b>Thermode Size</b>	75mm x 2mm	75mm x 2mm
			<b>Thermocouple Type</b>	K Type	K Type

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

#### REGIONAL OFFICES

- **Beijing**  
 Tel: (86) 10 6566 2172  
 Fax: (86) 10 6566 2171  
 Email: james-zj\_yao@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) 3 262 1188  
 Fax: (886) 3 262 0208  
 Email: kenny-tan@cherusal.com
- **Shenzhen**  
 Tel: (86) 755 8231 8767  
 Fax: (86) 755 8231 8763  
 Email: bs\_tan@cherusal.com
- **Thailand**  
 Tel: (66) 2 690 2466  
 Fax: (66) 2 690 2467  
 Email: nipon\_k@cherusal.com

