



MMI Systems

System & Factory Automation

MMI Systems is an advance equipment manufacturer and factory automation solution provider to the *Consumer Electronics, Data Storage, Medtech and Semiconductor industries*

With over 20 years of excellence in equipment manufacturing and IP compliance with non-infringement record, our mission is to deliver cutting edge solutions to reduce manufacturing cost and improve factory efficiency

MMI Systems helps our customers to focus on *growing* their business by providing *quality equipment & technical knowledge*

MMI Value Adds

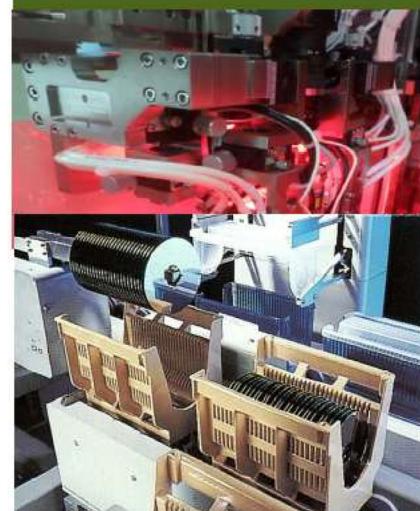
Build to Print

Design and Build with Full Turnkey Solution

Competitive Pricing

Part Localization Proposal

Training, Spares and Maintenance Services



Thermal IC Encapsulation System



Designed to Produce
Quality Packages
Assemblies with
Highest Production
Yield and UPH

SPECIFICATION

System Application

- For device package Lids (Pre-Applied Epoxyes) thermal encapsulation

RF Power Devices with Lids

- SOT or other packages
- Conversion kit for various Lids and Packages.

Device Packages Encapsulation Temperature Range

- Controlled up to 250 degree Celsius

Vision Capability

- Device orientation check
- Device packages check

Incoming Lids Tray Stacker

- Up to 20 trays

Input/Output Magazine

- Lead frames
- Boat Tray with headers

Voltage Rating

- 230Vac, 50/60Hz, Single Phase

Dimension & Weight

- 1.75m(L) x 0.45m(W) x 1.8m(H)
- Est. 1,400KG

Introduction

The TIE designed to precisely pick and place IC Lids to high temperature sealing station for IC encapsulation process. Dual sealing stations with precise temperature control accuracy and fully automatic processes to improve productivity and efficiency. Each system also can be tailored to your specific needs by add-on options or specific request



Thermal IC Encapsulation Features

Dual Sealing Stations

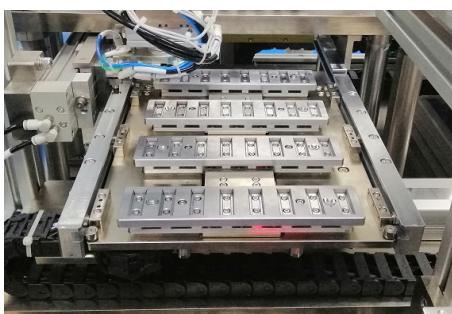
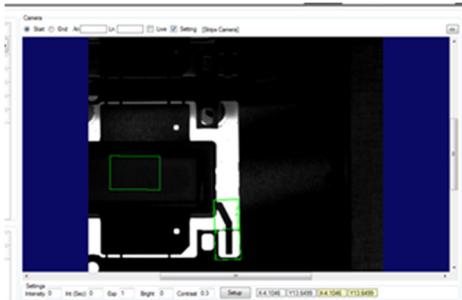
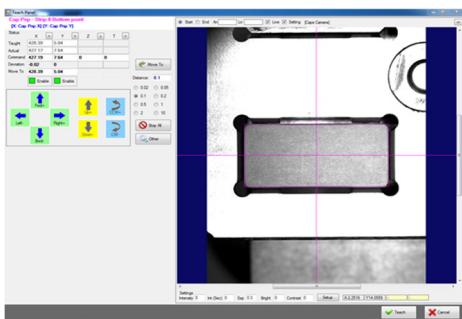
- High yield and throughput
- Individual PID temperature controller to provide consistent temperature control across all DUT
- Precise temperature control accuracy



Lids Loading Features

The TIE tray loader station allow user to load and unload tray at any point of time

- Lids load into customize ESD tray
- Able to stack up to 20 trays
- Full automatics tray loading and unloading mechanism
- Empty tray to be retrieved at any time even when the machine is running.



Vision Inspection Features

Uses vision system for orientation and IC packages check

- Detect lead frame orientation and Lids based on the recipe selection
- Detect correct loading of IC package and Lids
- Easy teaching using pattern recognition vision software

Easy to Use GUI Features

Easy to use Window base GUI and ability to create multiple recipe applications

- Live temperature & vacuum status monitoring
- Recipe enable duration setting of Pre-heat, Curing and Hang Time
- Easy reference guide to troubleshooting manual
- Standard ASCII reporting with batch number, operator ID and log report
- Request for customize recipe can be consider for further evaluation

Option for Different Product/Lids Conversion Kit

Handler is designed to handle different packages and Lids with conversion kit

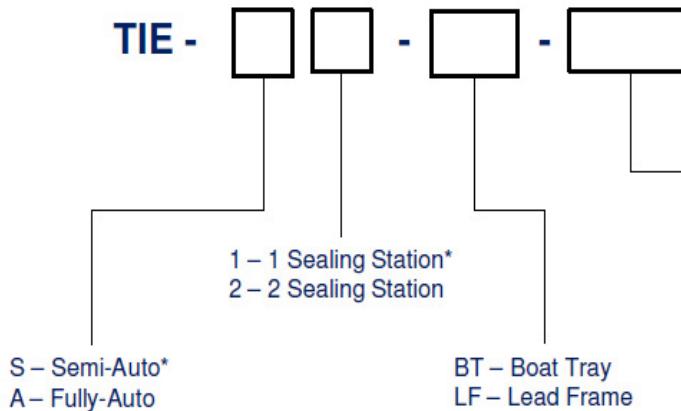
- Conversion kit available for different device packages
- Easy conversion set-up with aid of precise alignment jig
- Quick coupling manifold concept for easy changeover

System Configurator

Model: TIE – A2 – LF – SOTxxxx

Note:-

* Denote only in this combination



SOTxxxx - Small Outline Transistor
DIPxxxx - Dual In-line Package
SOPxxxx - Small Outline Package
QFPxxxx - Quad Flat Package
XXXXxx - Other Packages

(Required samples during RFP)



 Singapore
MMI Systems Pte Ltd
Block 10 Kaki Bukit Ave 1, #03-06 Kaki Bukit Industrial Estate,
Singapore 417942
Tel: (+65) 6844 5550
Fax: (+65) 6841 5505
Email: mmisyg_enquiry@mmi.com.sg
Website: www.mmi-systems.com.sg



 Thailand
MMI Systems Technology (Thailand) Co., Ltd
119 Moo 1, Hi-Tech Industrial Estate, Tambon Baanlane, Amphur Bangpa-In,
Ayutthaya, 13160, Thailand
Tel: (+66) 3 5350 501
Fax: (+66) 3 5350 520
Email: mmisyg_enquiry@mmi.com.sg
Website: www.mmi-systems.com.sg

