



Curie Heat Technology High Thermal Recovery & Performance

Soldering Machine



TMT-9000S

- High thermal recovery & performance.
- 13.56MHz power supply with built-in LCD display.
- Dual switchable soldering ports.



TMT-5000S

- Features our unique T Series line of tip cartridges.
- Lightweight and compact, takes up minimal table space.



TMT-2200S

- Dual ports with simultaneous heat up.
- 470KHz power supply with built-in LCD display.



TMT-2000S

- Maximum flexibility, allows the use of K, P and S Series tips.
- Extremely compact, weighs just 1.3KG.



TMT-1000S

- Rapid RF induction heating with no temperature overshoot.
- Precise temperature control within a range of $\pm 1.1^{\circ}\text{C}$ ($\pm 2^{\circ}\text{F}$).

Ergonomic & User-Friendly High Reliability & Durability

Accessories



Auto Feeder Kit

- Adjustable speed, feed length
- Adjustable feed retraction
- Use of step motor allows precision control
- Increases efficiency



Solder Tip Tester



- Data save and export
- Lightweight and easy to use
- Accurately test tip to ground resistance and tip to ground AC leakage



Automatic Solder Tip Cleaner



- Removes tip oxidation
- Light & compact, takes up minimal benchtop space
- Easy to clean and maintain



De-Soldering Kit



- Three heating modes to meet different soldering requirements.
- Professional board holder allows three dimensional adjustments.



Infrared Pre-Heater

Soldering Robot



TMT-R8000S

- 6-Axis Soldering/Dispensing Platform
- Full vision mapping & Fiducial Marks
- Laser Height Measurement
- Curie Heat Technology provides precise temp. control
- Intelligently compensates for PCBA variance
- Fume extraction Kit



TMT-R9000S

- Dual Arm, 6 Axis Soldering/Dispensing Platform
- Large Soldering Area
- Intelligently compensates for PCBA variance
- Full vision mapping & Fiducial Marks
- Laser Height Measurement
- Curie Heat Technology provides precise temp. control
- Fume extraction



TMT-R9800S

- Dual Arm, Six Axis Soldering Robot
- Intelligently compensates for PCBA variance
- Image Recognition & Mapping System
- Laser Height Measurement
- Curie Heat Technology for precise temperature control



TMT-R9900S

- 8-Axis Soldering/Dispensing Platform
- Full vision mapping & Fiducial Marks
- Laser Height Measurement
- Curie Heat Technology provides precise temp. control
- Flux & Solder Paste dispensing
- Intelligently compensates for PCBA variance
- Fume extraction
- PCB Loader w/Preheater (Optional)

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BGA Rework System



**ZM-R730A Large Board BGA
Rework Station**

- Large HD Touch Screen
- Stable Temperature Control
- Removable Infrared Temperature Zone
- HD Optical Alignment and Intelligent Control



**ZM-R7850A Smart Optical
BGA Rework Station**

- Convenient temperature setting and saving
Independently programmed three temperature
zones
- Multi-function control Industrial computer
control
- HD optical alignment system Imported HD CCD
(2 million pixel) optical alignment system



**ZM-R8650 Fully Automatic
BGA Rework Station**

- Precise Visual Alignment
- ESD Ionizer
- Precise Motion Platform
- Multifunctional Control Feature
- Three Independently Editable Heat Zones
- Stable Temperature Control
- Bottom Heating System

CHAMBER TEST

ISD



Temperature & Humidity Chamber

1. Temperature Range

- Standard: -40°C to $+150^{\circ}\text{C}$
- Extended models: -70°C to $+180^{\circ}\text{C}$
- Heating rate: $\sim 3-5^{\circ}\text{C}/\text{min}$ (depending on chamber size)
- Cooling rate: $\sim 1-3^{\circ}\text{C}/\text{min}$ (LN_2 boost can increase this)

2. Humidity Range

- 10% RH to 98% RH (typical)
- Some models: 20% RH to 95% RH (more stable in this range)
- Controlled via steam generator or ultrasonic humidifier

3. Control Accuracy

- Temperature: $\pm 0.3^{\circ}\text{C}$ (setpoint accuracy)
- Humidity: $\pm 2-3\%$ RH



Thermal Shock Tester

1. Temperature Range

- Hot Zone: $+60^{\circ}\text{C}$ to $+200^{\circ}\text{C}$ (typical up to $+220^{\circ}\text{C}$)
- Cold Zone: -55°C to -65°C (some models extend to -75°C)
- Transition Zone (test area): follows whichever zone is active

2. Transfer Time (Cold $\leftrightarrow$ Hot)

- ≤ 10 seconds (sample transferred by basket or damper system)
- Some advanced models: ≤ 5 seconds

3. Recovery Time

- Time to stabilize back to setpoint after transfer:
- ≤ 5 minutes (depending on sample mass & load)

Inspection & Rework



- Digital Scope**
- High-Magnification Visual Inspection
 - Real-Time Video Output
 - Image & Video Capture
 - Measurement & Annotation Tools



- Microscope**
- High Optical Magnification
 - Stereoscopic (3D) Viewing
 - Large Working Distance (WD)
 - Focus, Zoom, and Position Control



- Magnifier Lamp**
- Optical Magnification
 - Integrated Illumination
 - Hands-Free Operation
 - Wide Viewing Area



- Fume Extractor**
- Fume Removal at Source
 - Multi-Layer Filtration System
 - Flexible Positioning (Hose or Arm)
 - ESD-Safe Models



- Rework System**
- SMD Component Removal and Replacement
 - Adjustable Temperature and Airflow
 - Nozzle Variety for Precision
 - Ideal for Rework and Repair

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Application: Rework

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ZM-R730A Large Board BGA
Rework Station



ZM-R7850A Smart Optical BGA
Rework Station



ZM-R8650 Fully Automatic BGA
Rework Station



Auto Feeder Kit



Solder Tip Tester



Automatic Solder
Tip Cleaner



De-Soldering Kit



Infrared Pre-Heater



Digital Scope



Microscope



Magnifier Lamp



Fume Extractor



Rework System

Malaysia Thailand Singapore Indonesia Philippines Vietnam Myanmar Cambodia Laos (S.E.A.)