



# **MULTIPLE TEST HANDLER MODEL: A207**

## **GENERAL SPECIFICATIONS**

# FUJITSU TOHOKU ELECTRONICS LTD.

## 1. Outline

These specifications are prescribed about the function of A207 and the performance. This equipment is pick and place type IC Test Handler and applied various type of package ICs such as BGAs, QFPs, PLCCs, LCCs, SOPs, SOJs, CSPs, and BCCs. Single, Dual, Quad, and Eight site Testing is possible and various IC's are applied efficiently by Change kits.  
(Refer to the attached sheet for Lay-out)

## 2. Function

ICs are fed from Loader trays, and heated in the heating area to reach the preset temperature and carried to the test site.  
ICs are sorted into categories in accordance with the test results by IC tester, and stored in Un-loader trays.

## 3. Specifications

### **3-1, Applicable Packages**

- 1) Applicable packages: BGA, QFP, PLCC, LCC, SOP, SOJ.  
[Any special packages such as CSP, BCC, and others require consultation]  
\*One Change kit include Handler
- 2) Package size:  
A: Eight site --- MIN 3x3mm - MAX 24x24mm (Outer dimension: 26.6x26.6mm)  
B: Quad site --- MIN 3x3mm - MAX 28x28mm (Outer dimension: 32.8x32.8mm)  
C: Lead pitch --- more than 0.4mm.  
[Other dimensions require consultation]

### **3-2, Applicable Tray**

- 1) Tray outer dimension: JEDEC/EIAJ (135.9x315.0)  
\*Heat proof hard tray should be used.
- 2) Tray thickness: less than 15mm.
- 3) Number of stored device: MAX 795pcs / Tray

### **3-3, Number of Test-site**

- 1) Number of Test-site: Single, Dual, Quad, and Eight
- 2) Test Socket: Burn-in type of Socket such as YAMAICHI, ENPLAS, and so on  
[Special socket require consultation]
- 3) Contact method: compressed by contactor
- 4) Socket Pitch: A X=40, Y=60mm  
B X=60, Y=40mm  
[Other pitch within the above range require consultation]
- 5) Socket Layout: X=4, Y=2

### **3-4, Applicable Tester**

- 1) Test head area dimension  
From the center of the test head to the end of Handler face dimension: 600mm  
Socket bottom height: 950mm - 970mm  
\*Test head table is available as an option
- 2) Tester interface  
GP-IB interface  
\*Please consult our engineer for other interface such as TTL, RS232C, and so on

### **3-5, Temperature Range**

- 1) Control Range: +50 – 130C+/-3C
- 2) Heating System: Hot plate

### **3-6, Number of Sort Categories**

- 5 Categories
- 1) Category 1 - 3: Automatic Elevator
  - 2) Category 4 - 5: Single Trays

### **3-7, Loader Capacity**

- 1) Automatic Tray Loader x 1: maximum height 250mm

### **3-8, Empty Tray Buffer Capacity**

- 1) Automatic Tray Loader x 1: maximum height 250mm

### **3-9, Unloader Capacity**

- 1) Automatic Tray Loader x 3: maximum height 250mm



2) Manual Tray x 2: Single Trays

### **3-10, Throughput**

1) Index time (test end to start): 0.6 second + 4.9 second Test Time / 8 pcs

\*above index time is value in the direct contact mode and varies depend on the kind of device and socket.

2) UPH: 5200

\*above UPH is value in the ambient mode, direct contact mode and not contained tray changing time.

### **3-11, JAM Rate**

Less than 1/ 3000.

\*Except it caused by the condition of the device, tray, and socket

### **3-12, Change Over time**

1) Applicable package is changed: about ten minutes.

It is not contained changing tray size, robot zipper size, and socket.

## **4. Safety Countermeasure**

1) There are four safety covers on each side of Handler. It stops immediately all the safety covers and a door was opened.

2) Emergency stop switches (a red color mushroom type) are installed on the control panel and other sides of Handler.

3) Alarm:

Contents of each Alarm messages are displayed in the touch panel screen and alarmed by the signal tower and chime.

- Signal tower : RED, YELLOW, and GREEN
- Buzzer tone : Two tone

## **5. Utilities**

1) Atmosphere temperature 10C-30C without frost

2) Power supply AC200V single phase, less than 30A

3) Air source 0.4MPa

4) Air consumption quantity about 50NI/min

5) Vacuum source: Vacuum pump built-in



6) Outer dimension 1670 (W) ×1520 (L) ×1750 (H) mm

\*exclude Signal tower height

7) Weight about 1000kg

## **7. Warrantee**

1) One year after Buy-off

Except these troubles due to the deliberateness on your side, the operation mistake, remodeling without notice, and so on.

Consumable parts are not contained with this warrantee.

2) As for the product which originated in the trouble, the second compensation such as a business, forgive it.

## **8. Document**

1) One copy of delivery specification.

2) One copy of instruction manual (A maintenance manual is contained.).

3) Assembling figure copy, wiring diagram, 1 of sensor arrangement figure.

4) Maintenance copy/1 of consumable part list.

5) One copy of shipping inspection record document.

## **9. Others**

1) Coating color: combination of light gray (mansel # 2.5Y7.2/0.4) and blue.

2) Buy-off: To confirm standard specifications and performance due to our Buy-off check list

## 10. Layout

A2-D7

[ 高さ: 8 シケ・3 分節・図面制 ]

