

MULTIPLE TEST HANDLER MODEL: A206SP

GENERAL SPECIFICATIONS



APIC YAMADA

1. Outline

These specifications are about the function of A206sp 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 and Dual site Testing is possible and various IC's are applied efficiently by Change kits.

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: Dual site: 60mm Pitch --- MIN 3x3mm - MAX 28x28mm (Mold dimension)

80mm Pitch --- MIN 3x3mm – MAX 40x40mm (Mold dimension)

B: Single site --- MIN 3x3mm - MAX 40x40mm (Mold dimension)

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.

3-3, Number of Test-site

1) Number of Test-site: Single and Dual

2) Test Socket: Burn-in type of Socket such as YAMAICHI, ENPLAS and so on



*Open-top Socket is applicable as standard.

3) Contact method: compressed by contactor

4) Contact mode: 1 Direct Contact

2 Soft Plunge

3 Drop and Plunge

5) Socket Pitch: 55 / 60 / 73.66 / 80 mm pitch are applicable at your site.

[Other pitch within the above range require consultation]

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: 970mm - 990mm

[Docking height require consultation]

*Test head table is available as an option

2) Tester interface

TTL interface

*Please consult our engineer for other interface such as GP-IB, RS232C and so on

3-5, Temperature Range

1) Control Range : Ambient mode / +50 – 130C+/-3C as Option

2) Heating System: Hot plate

3-6, Number of Sort Categories

3 Categories

1) Category 1 - 2: Automatic Elevator

2) Category 3: Single Trays

*Multi binning unit of 6 Categories is applicable as Option

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 2: maximum height 250mm

2) Manual Tray x 1: Single Tray



3-10, Throughput

- 1) Index time (test end to start) : 0.44 second + 1.96 second Test Time / 2 pcs
0.44 second + 0.76 second Test Time / 1 pc

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

- 2) UPH: 3000

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

3-11, JAM Rate

Less than 1/ 5000.

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

3-12, Change Over time

- 1) Applicable package is changed: about three 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 1300 (W) ×1350 (L) ×1600 (H) mm



*exclude Signal tower height

7) Weight about 700kg

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. Options

1) Hot Testing : +50 – 130C+/-3C

*You can select as Factory option or at site.

2) Multi Binning unit* : 6 Categories (2 x Auto, 4 x Single Trays)

3) Tube to Tube Unit*

4) Tape-real Unit*

5) Tester Head Table

6) Vision Alignment Unit*

7) GPIB Tester Interface

*Under development

11. Layout

