

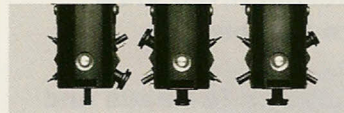
YG88R

- Handles a super-wide range of components from 0402 chips to □55mm components and with long connectors.
- Handles components with heights up to 25.5mm.
- Simplified pressing force control from 10 to 40N.
- +/-30μm QFP mounting absolute accuracy and +/-20μm QFP repeatability in full time operation.
- 8,400CPH (0.43sec/CHIP Equivalent : optimum condition) mounting capacity.
- Applicable to longer length PCB (up to L510mm).



Note : The photo shows the state with various options installed.

3 in-line multi-heads



3 in-line multi-head has abilities of both high-speed mounting and a wide range of high, large and odd-shaped components mounting. Capable of using simplified pressing force control function as an option.

FNC heads



■ Using odd-shaped components FNC head changes nozzles by cooperating with ANC station that holds various customized nozzles.

■ Handles general components
Index mechanism changes nozzles while heads are moving.

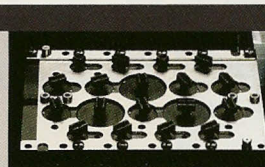
| No. | Nozzle type | Examples of components |
|-----|-----------------------------|---|
| 1 | 221F | 0603 1005 |
| 2 | 222F, 223F | 1608 to 3216 MTR Cylindrical chip 222F |
| 3 | 223F, 223F-D (○), F22AA (☆) | A&electrolytic C 4525 Ta PTR to 223F, 223F-D |
| 4 | 225F | QFP BGA |
| 6 | 224F | TSOP QFP A&electrolytic C CSP |

| No. | Nozzle type | Examples of components |
|-----|---|---|
| | 228F(☆) | Large-sized cylindrical chip |
| | Customized nozzles φ6mm series φ10mm series | 0402 Transformer Flat type connector |
| 5 | φ15mm series | Transformer C type connector |
| | φ25mm series | card connector long connector (to 100mm) |

○: Option ☆: Customized

ANC station

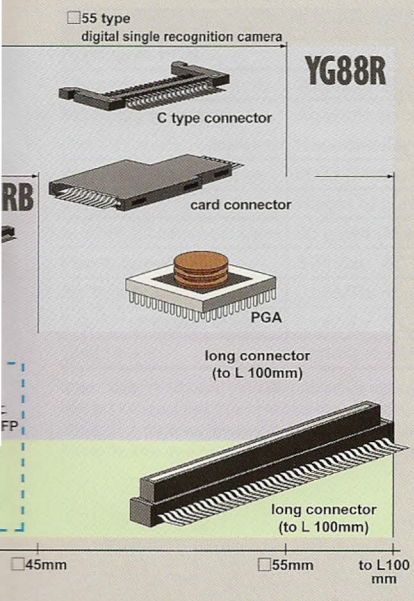
Automatically replaces customized nozzles.



Single recognition camera (Applicable to □55mm components)



Component sizes



YG88R specifications (Model : KHV-000)

| | YG88R |
|--|---|
| Applicable PCB | L510 x W440mm to L50 x W50mm <Note 1> <Note 2> |
| Through-put (Optimum) | 8,400CPH (0.43sec/CHIP Equivalent) |
| Mounting accuracy (Yamaha's standard components) | Absolute accuracy ($\mu+3\sigma$) : +/-0.05mm/CHIP, +/-0.03mm/QFP Repeatability (3σ) : +/-0.03mm/CHIP, +/-0.02mm/QFP |
| Applicable components | 0402 (Metric base) to □55mm components, SOP/SOJ, QFP, connector, PLCC, CSP/BGA, long connector, Odd-shaped components (such as special connectors) which requires pressing force control mounting (10 to 40N) <Note 3> <Note 4> <Note 5> <Note 6> <Note 7> Height of components which can be mounted : 25.5mm <Note 8> Allowable height on PCB surface before transport : 6.5mm or less |
| Number of component types | 90 types (Max, 8mm tape reel conversion) <Note 1> |
| Power supply | 3-Phase AC 200/208/220/240/380/400/416V +/-10% 50/60Hz |
| Air supply source | 0.55MPa or more, in clean, dry states |
| External dimension | L1,650 x W1,562 (End of cover) x H1,470mm (cover top) <Note 9> L1,650 x W1,615 (End of guide for feeder carriage) x H1,470mm (cover top) |
| Weight | Approx. 1,650kg (Main unit only) |

- <Note 1> It is varied by the combination layout together with sATS / wATS / dYTF etc.
- <Note 2> For information on "Longer length PCB spec." and "2 stages push-up spec.", please consult us separately.
- <Note 3> In case of the □31 type multi-camera, the applicable components range is from 0402 to □31mm Components.
- <Note 4> In case of the □45 type multi-camera, the applicable components range is from 0603 to □45mm Components.
- <Note 5> □55 type single recognition camera is required for the □55mm component. (over □45mm Component).
- <Note 6> A preliminary arrangement is necessary when a side-view camera is installed.
- <Note 7> When handling long connectors and large sized components, about the eccentric offset values and the rotation angle, please consult us separately.
- <Note 8> 20mm or less when the side-view camera is installed. <Note 8> This dimension does not include the projection.