

Compact High-Speed Modular

YRM10



Achieves outstanding cost efficiency and defect-free production

Offers the high speed of 52,000 CPH, and multiple capabilities to
handle components from 0201 to 100 x 55 mm

Packed with the technology of the YRM series' high-end systems.
"Just right" small, multi-purpose high-speed mounter

Compact High-Speed Modular

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Outstanding cost performance

Value-added production with mounting capability, typically not achievable within the economy price range

Achieves high-quality production

Toward defect-free production with high mounting accuracy and a wide range of functions

Easy-to-use, multi-purpose operation

Simple, single-head operation bringing great usability



Feature

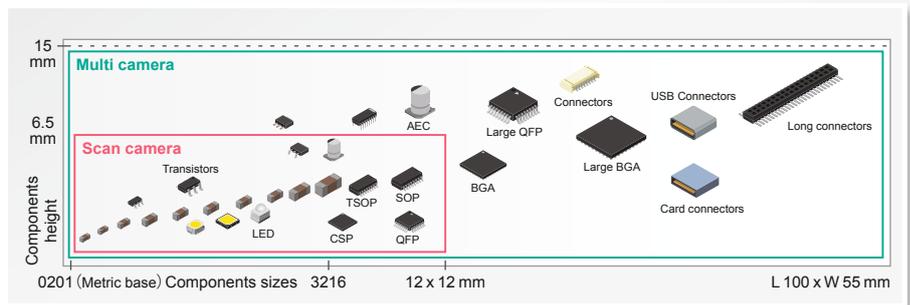
1 Outstanding cost efficiency

Supports diverse PCBs with one head, achieving great productivity

Features YR series' high-speed multi-purpose inline head. Supports a wide range of components from super miniature chips to large 100 x 55 mm components without head replacement. Also realizes the high speed of 52,000 CPH, demonstrating great productivity with just one head.

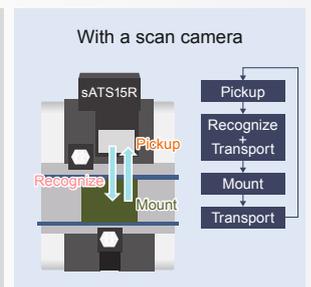
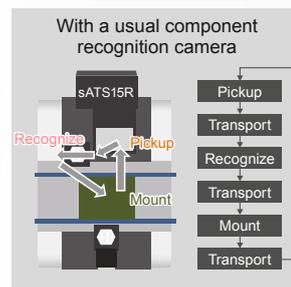
High-speed multi-purpose in-line head

Achieves high-speed mounting of 52,000 CPH (under our optimized conditions). Also secures an accuracy of $\pm 35 \mu\text{m}$ ($\text{Cpk} \geq 1.0$).



Scan camera

The head side features a component-recognition camera to identify components during transportation. Shortest-route transportation from pickup to mounting, improving productivity.



Feature 2 High-quality production

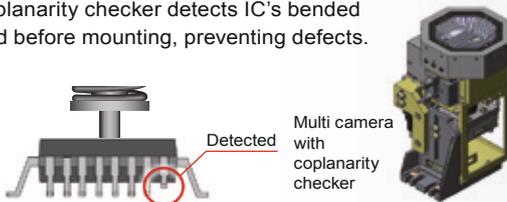
Detects posture anomalies of components before mounting

The side-view function detects pickup status and component presence with no time loss, for defect-free production.



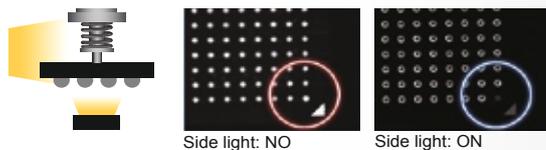
Prevents defects from bended leads

Coplanarity checker detects IC's bended lead before mounting, preventing defects.



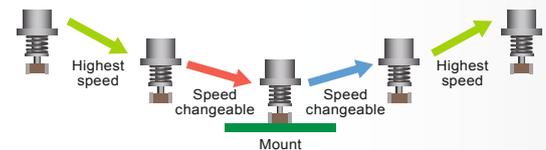
Accurately detects BGA ball missing

Side lighting meticulously detects missing BGA balls that cannot be detected with lighting from underneath.



Achieves steady pickup and mounting

The head can change speed momentarily during pickup and mounting to maintain production and steady quality.



Feature 3 Great usability

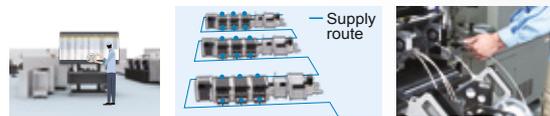
Slim and light feeder improves operability

Compact feeder weighing under 1 kg, operable with one hand for better work efficiency.



Components can be supplied "anytime" with "no specific skills"

Remaining components monitor and Auto Loading Feeder are combined to supply components efficiently at any chosen timing, optimizing operators' component-supply work.



Efficiently supplies tray components

YRM10 can feature the space-saving, cost-effective 15-magazine tray component feeder sATS15R.



Nozzle is automatically replaced, requiring no changeovers

The nozzle is automatically replaced according to the mounting PCB. The nozzle holder can be detached with just one touch, providing ease of maintenance and changeovers.

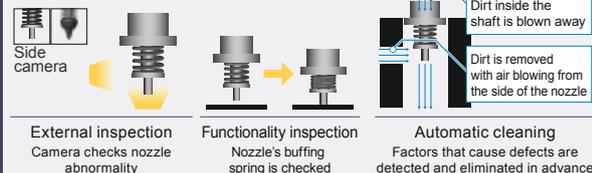


Easy maintenance

Nozzle is automatically cleaned and its condition is checked

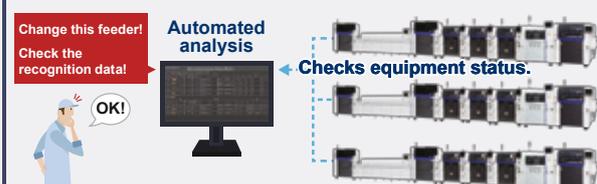
Blow station automatically cleans air channel. Nozzle buffing spring and exterior are automatically checked to see if there are any abnormalities. Enables production under consistently good equipment conditions.

Nozzle health check



Automatically identifies the cause of pickup errors and instructs improvements

Dashboard performs automatic analysis of what caused pickup errors. It suggests replacing problematic feeders and checking the nozzle to support maintenance and improvement for operators.



1 STOP SMART SOLUTION

High-efficiency, defect-free production, made possible as Yamaha is a manufacturer of inspectors, printers and mounters.

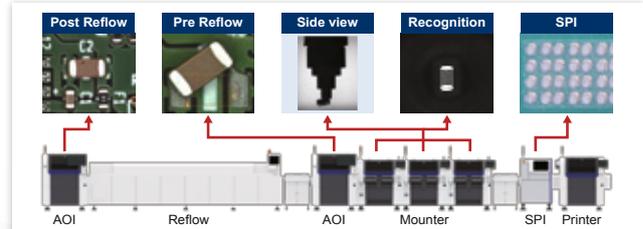
The target mounter will be automatically stopped if a defect is detected.

The mounter and AOI will be linked and the mounter in question will be instantly stopped if a defect is detected. Defect images are sent to mobile devices so that OK/NG decisions can be made remotely. Prevents continuous stream of defects, and quickly identifies the cause of defects.



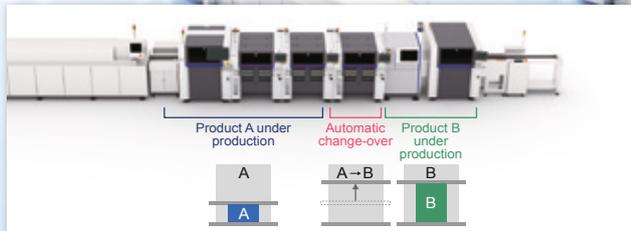
All recognition images are automatically saved to identify the causes of defects.

Images of all components during pickup and mounting will be taken and automatically saved, significantly reducing the time taken to analyze the cause of defects.



Seamless automatic switching of production types for efficient multi-production.

Automatic change-over function automatically switches production program during operation, to be ready to build the next PCB type.



Scan here to find out more



SEMI SMT-ELS Capable

Compatible with SEMI SMT-ELS Communication Standards (option). Achieves seamless connection for, for example, Auto Program Change-Over, with other companies' machines.

Specifications

Note: Specifications and appearance are subject to change without prior notice.

| | |
|---|--|
| Model | YRM10 |
| Applicable PCB | L 50 x W 50mm to L 510 x W 460mm ^{Note 1} |
| Applicable components | 0201 mm to L 100 x W 55 mm, H 15 mm or less |
| Mounting capability^{Note 2} | 52,000 CPH |
| Mounting accuracy^{Note 2} | ±0.035 mm Cpk ≥ 1.0 |
| Number of component types | Reel components: max. 96 types (conversion for 8 mm tape feeder) Tray components: 15 types (when equipped with sATS15R) |
| Power supply | 3-Phase AC 200/208/220/240/380/400/416 V ± 10 % 50/60 Hz |
| Air supply source | Over 0.45 MPa, clean and dry state |
| External dimension | L 1,254 x W 1,440 x H 1,445 mm |
| Weight | Approx. 1,230 kg (main unit only) |

Note 1: Optionally able to support lengths up to 950 mm
Note 2: Under our optimized conditions

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The models shown in the photographs in this catalog may differ slightly from the standard specifications. Specifications and appearance are subject to change without prior notice.

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