



YRM20 **NEW**

SMT Innovation

Premium High-Efficiency Modular Moulder

All-round surface moulder with Yamaha's 1-head solution delivers superior productivity and versatility!

Maximize your productivity
2-beams – 2-heads with highest speed in its class
115,000 CPH (under optimum conditions as defined by Yamaha Motor)

The 1-head solution! No need to exchange heads!
0201 mm to 55 x 100 mm
component size

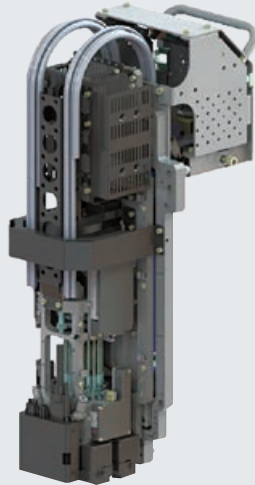
Deliver highest mounting quality due to new
Low-impact nozzle

Operation evolved to latest level
Allows intuitive operation with new
State-Of-Art GUI

FEATURE 1 Fusion with Σ technology achieves maximum productivity

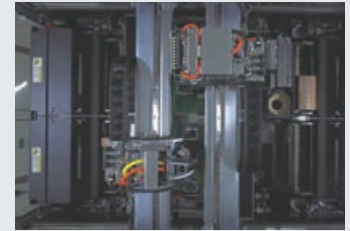
NEW High-speed general-purpose rotary RM head achieves 115,000 CPH!

Rotary head boosts component mounting of super-tiny to large size components. This results in both high-speed production and flexibility, where head replacement is no longer needed. This is the Yamaha 1-head solution technology concept. This mounter can handle components ranging from super-tiny 0201 mm components up to medium-sized odd-shaped components with heights of 6.5 mm, and 12 x 12 mm dimensions.



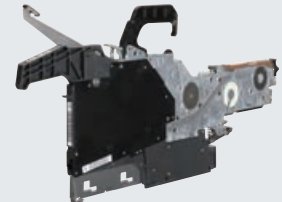
NEW Overdrive motion

Utilizes the overdrive motion concept from Σ technology that minimizes the interference range between 2 heads to achieve higher productivity.



NEW 8 mm high-speed feeder type

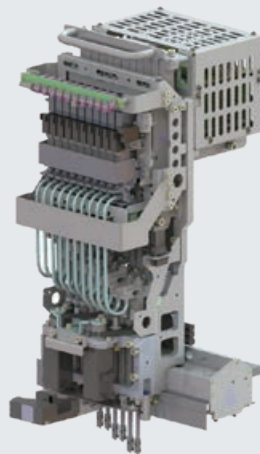
We offer a product line of high-speed feeders capable of supporting RM heads that achieve high productivity. Component feed speed is drastically improved which supports ultra-high-speed RM head component pickup.



FEATURE 2 Broad-ranging production capacity thanks to the 1-head solution

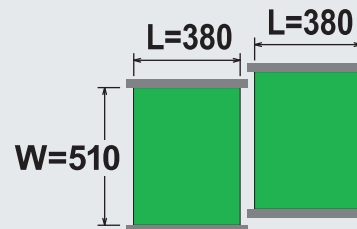
IN-LINE HM head

Universal type head provides full versatility to support high-speed handling ranging from super-tiny 0201 components on up to large-size components of 55 x 100 mm and heights to 15 mm. Combining these with RM heads delivers high-speed pickup and mounting of all types of components.



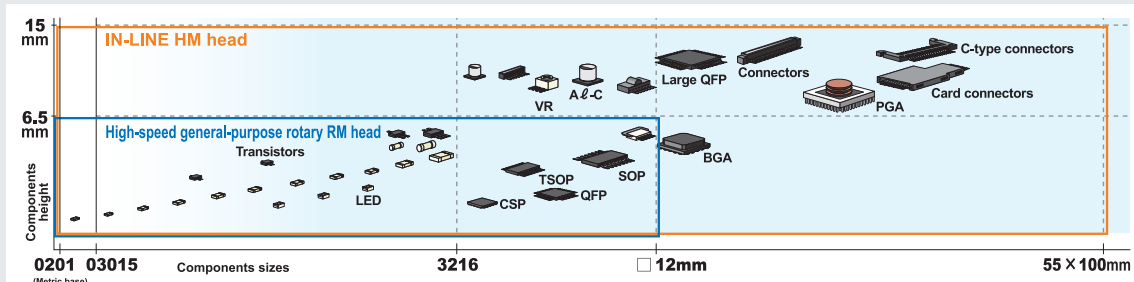
NEW Dual-stage conveyor

The dual-stage conveyor has evolved to an even higher level, with better PCB support and handling (maximum PCB width 510 mm). High-speed PCB conveying drastically cuts the time needed for PCB changeovers.



Dual stage (2 PCB conveyance)

Handles various types of components



FEATURE 3

Standard features that maintain component mounting quality at a peak level!

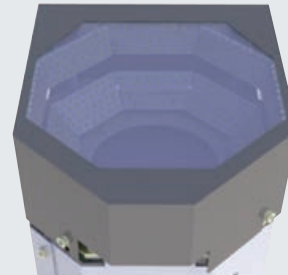
NEW Low impact nozzle gives high-quality mounting

Lightweight nozzles are essential standard equipment for ensuring high-speed, low-impact mounting, which is essential for mounting ultra-small components next to each other in narrow spaces. These nozzles come with nozzle IDs and improved nozzle health check features.



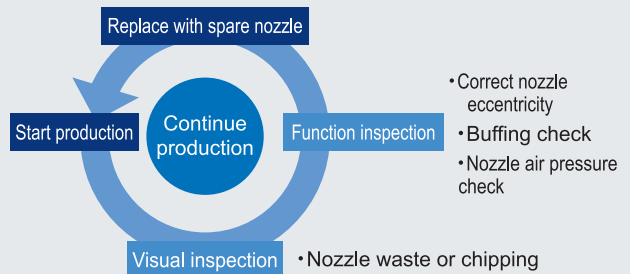
NEW Vision system further enhances component mounting quality

Component recognition cameras can flexibly switch between line imaging and area imaging. Side-view cameras improve quality during mounting of tiny components.



Nozzle health care – feeder maintenance warnings

Self-diagnosis and self-recovery functions continuously maintain nozzles and feeders in a clean state for continuous high-quality production.



FEATURE 4

Ensures high-efficiency production with a full range of functions!

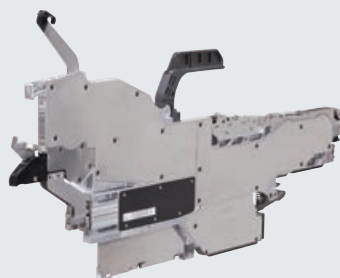
NEW State-of-Art GUI design

Achieves both easy-viewing operability and screen design. Operator mode improves machine operability during production and setups/changeovers.



Auto loading feeder

Also supports preset systems for auto loading feeders. It reduces the load on the operator by widening out the component supply timing.



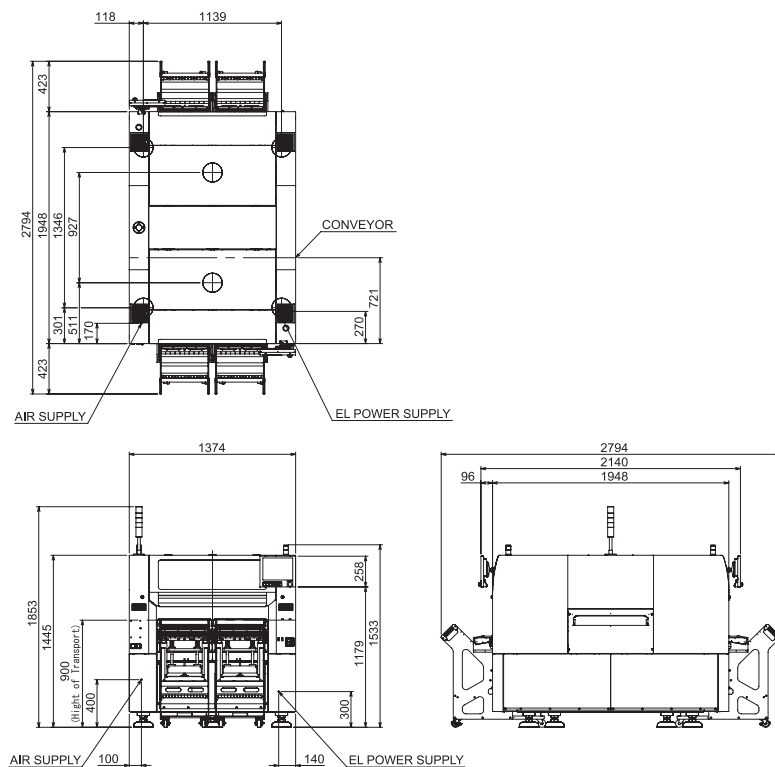
Automatic push-up pin exchange system

This automatically positions the pushup pins. Combining this feature with automatic setups vastly cuts the work time during model changeovers.



YRM20

Specifications	High-speed general-purpose rotary RM head	IN-LINE HM head
Nozzles (per 1-head unit)	18	10
Applicable components	0201 to W 12 x L 12 mm, H 6.5 mm or less	0201 to W 55 x L 100 mm, H 15 mm or less
Mounting capability (during high-production mode)	115,000 CPH 78,000 CPH IPC 9850	98,000 CPH 68,000 CPH IPC 9850
Mounting accuracy (during high-precision mode)	During use under in-house optimal conditions: ± 0.025 mm, Cpk ≥ 1.0	
Number of component types	Feeder carriage exchange: max. 128 types = 32 feeders x 4 (conversion for 8 mm tape feeder)	
PCB dimensions	Dual-stage specifications 1 PCB conveyance: L 810 x W 510 mm to L 50 x W 50 mm 2 PCB conveyance: L 380 x W 510 mm to L 50 x W 50 mm	
Power supply	3-phase, AC 200/208/220/240/380/400/416 V $\pm 10\%$, 50/60 Hz	
Air supply source	0.45 MPa or more, in clean, dry state	
External dimension (excluding projections)	L 1,374 x W 1,948 x H 1,445 mm	
Weight	Approx. 2,250 kg (main unit only)	

YRM20 external dimension


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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.