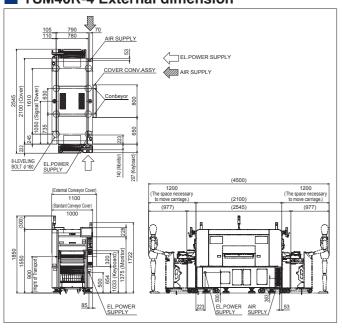
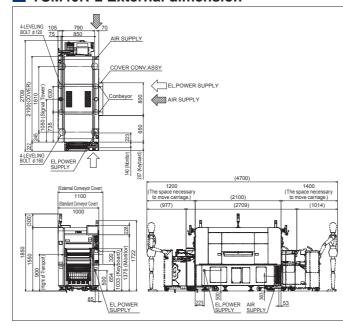
### Z:TA-R Specifications \*Specifications and appearance are subject to change without prior notice.

Model		Z:TA-R YSM40R	
		4-beam, 4-head specs. (YSM40R-4)	2-beam, 2-head specs. (YSM40R-2)
Applicable PCB		L700 x W460mm to L50 x W50mm	
Applicable	Ultra-high-speed (RS) head	0201* to □6.5mm (Height 2.0mm or less) ★ Option	_
components	Multi (MU) head	03015 to 45 x 60mm (Height 15mm or less)	0402 to 45 x 100mm (Height 15mm or less)
	Flexible (FL) head	_	0603 to 45 x 100mm (Height 25.5mm or less)
Mounting capability		200,000CPH (When using RS head)	58,000CPH (When using MU head)
(under optimum conditions as defined by Yamaha Motor)			
Mounting accuracy		±35µm (25µm)	±40μm (30μm)
(★ Under optimum conditions as defined by Yamaha Motor		Cpk ≥1.0 (3σ)	Cpk ≥1.0 (3σ)
when standard evaluation materials are used)			
Number of component types		Max. 80 feeders with RS heads	92 feeders with MU or FL heads
* 8mm width tape conversion		Max. 88 feeders with MU heads	
		Max. 84 feeders with RS x 2 + MU x 2 heads	
Power supply		3-Phase AC 200/208/220/240/380/400/416V +/- 10%	
Air supply source		0.45MPa or more, in clean, dry state	
External dimension		L1,000 x W2,100 x H1,550mm (excluding projections)	
Weight		Approx. 2,100 kg	

### YSM40R-4 External dimension



### YSM40R-2 External dimension



### **DISTRIBUTOR**



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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PCB ASSEMBLY SYSTEM

# **SMT Innovation**



**Ultra-High-Speed Modular** 



# **SMT Innovation**

**Ultra-High-Speed Modular** 



Achieves revolutionary productivity of 200,000 CPH\*1 giving it the world's fastest speed on a compact platform

\*1:Comparison of chip mounting capability (CPH: chips per hour) under ideal conditions among 4-beam 4-head class surface mounters. In-house research as of April 2016.

# World's fastest 200,000 CPH (in-house comparison under ideal conditions)

# **Compact** Machine width of 1 m

**Flexible Available in 3 head variations** 

**Astounding line length productivity** 200,000 CPH/m (in-house comparison under ideal conditions)



# Highest productivity in the world!

### World's fastest! 200,000 CPH

The speed is achieved by the leading-edge technology including innovative high-speed rotary heads and servo motors incorporating new, high-speed algorithms, etc.

### Multi-camera system

Innovative multi-camera system has faster recognition speed along with high

This system can also include a coplanarity check function and side-view camera.



Multi-camera

### Ultra-high-speed rotary head

Delivers revolutionary productivity by employing our unique simultaneous component pickup technology, newly developed rotary control technology, and heads are lighter than previous high-speed heads.

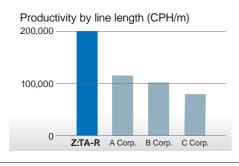
### Ultra-high-speed ZS feeder

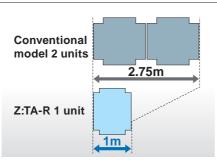
A light-weight compact motorized feeder incorporates a new type control algorithm to ensure super-high-speed operation.\*2 \*2:The currently used ZS feeder can be optionally upgraded to the ultra-high-speed ZS feeder by upgrading the software version and adjusting with the tune-up station.



### Compact space-saving design

Even though a 4-beam unit, its small footprint and its design feature a width of only 1 meter and depth of 2.1 meters. The Z:TA-R delivers superb productivity per line length and productivity per surface area. It is a powerful tool for making maximum use of limited factory space!





# Flexible response for different production configurations!

### 3 types of head variations

Allows replacement with 3 head types to match the production configuration.

### Ultra-high-speed head (RS head)



RS head delivers powerful productivity spanning a range from tiny 0201 to 6.5mm square on up to heights of 2mm.

### Multi-head (MU head)

MU head offers the advantages of both component adaptability and high-speed to handle components from 03015 chips through 45x100mm and heights up to 15mm.

## Flexible head (FL head)

FL head is ideal for large component from 0603 chips through 45x100mm and heights up to 25.5mm.

### Beam variations in 2 types

Select from two types of beam variations to prioritize maximum CPH speed or component diversity. Select the 4-beam type that prioritizes component

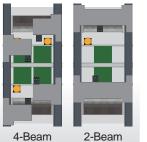
mounting or the 2-beam type that offers flexible handling of a wide range of components including odd-shaped chips.

### 4-BEAM

Optimal type to serve as a high-speed chip shooter

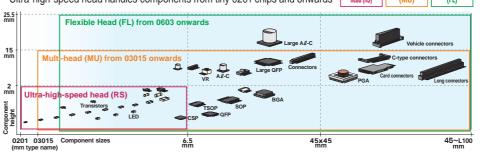
2-BEAM

This general-purpose type allows mounting tray feeders at front and rear.



### Head variations & matching components

Ultra-high-speed head handles components from tiny 0201 chips and onwards



### Flexible nozzle station

Nozzle station (ANC) is changeable to match the head. Also handles nozzle free layouts for high-speed head compatibility



### Dual lane system handles large-size PCBs

The YSM40R employs the dual lane system that gives superb versatility in feeding 2 parallel lanes of PCB in sizes ranging from small to midsized PCB on up to large-sized PCBs of 700mm in length.



### Wide range of feeder Carriages

Feeder carriages available for the YSM40R include externally attached quick-change replacement feeders and carriage type tray feeders attachable at the machine front and rear





Automatic tray supply carriage

# High tech to support high mounting quality & a high machine operating rate

Automatically diagnoses the nozzle function and appearance and replaces any problem nozzle with a spare nozzle as needed.

# Nozzle health care function

### Rotary head tip filter A filter attached to the

shaft tip prevents dirt and grime entering, thereby minimizing down-time and maintenance costs.



### High speed side-view camera

Monitors the component retention state in real-time with no loss at 3 periods or namely, right after pickup, right before mounting, and right after mounting.



### Blow station

The blow station automatically self-cleans the nozzle shaft to drastically reduce the time normally required for maintenance. It is also effective on nozzles for extremely small components such as 0201 chips.



### Auto recognition optimizer functions

These functions including e-Vision for auto-generation and tracing of recognition data, and smart recognition to easily create component data for complex shapes to help prevent pickup and component recognition errors.

### Highly stable & reliable pickup system This system automatically maintains highly

reliable component pickup by employing a high-performance vacuum pump, pickup position auto-correction function, and pickup height auto-teach function.