



ZITAR YSM40R

Ultra-High-Speed Modular Mounter

PCB ASSEMBLY SYSTEM

Achieves revolutionary productivity of 200,000 CPH* making it the world's fastest compact SMT platform available.

* 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 chip mounter

200,000 CPH

(in-house comparison under ideal conditions)

Flexible

Available in 3 head variations

Compact

Machine of 1 m width and 2.1 m deep

Astounding productivity

200,000 CPH/meter line length

(in-house comparison under ideal conditions)

FEATURE 1 Highest productivity in the world!

World's fastest! 200,000 CPH

Speed is achieved by cutting-edge technology including innovative high-speed rotary heads and servo motors incorporating new, high-speed algorithms.

• **Multi-camera system**

Innovative multi-camera system has faster recognition speed along with high accuracy. This system can also include a coplanarity check function and side-view camera.



• **Ultra-high-speed rotary head**

Delivers revolutionary productivity by employing our unique simultaneous component pickup technology, newly developed rotary control technology, and a significant weight reduction over our previous high-speed heads.

• **Ultra-high-speed ZS feeder**

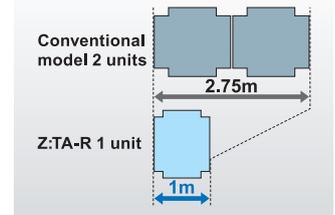
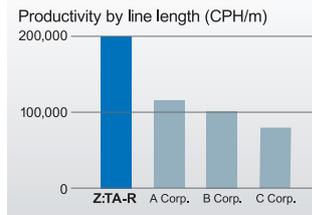
A light-weight compact motorized feeder incorporates a new type control algorithm to ensure super-high-speed operation.*



* 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

Whether configured as a 2 or 4 beam system, the YSM40R maintains the same small footprint of only one meter wide and 2.1 meters deep. The Z:TA-R delivers class leading productivity per square meter making it a powerful tool for maximizing limited production areas.



FEATURE 2 Flexible response for different production configurations!

3 types of head variations

Maximum flexibility with 3 headtypes to match the production configuration.



• **Ultra-high-speed head (RS head)**

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



• **Multi-head (MU head)**

MU head offers the advantages of both component adaptability and high-speed to handle components from 03015 chips through 45x 100mm and heights up to 15 mm.



• **Flexible head (FL head)**

FL head is ideal for large components from 0603 chips through 45x 100 mm and heights up to 25.5 mm. These functions including e-Vision for auto-generation

Beam variations in 2 types

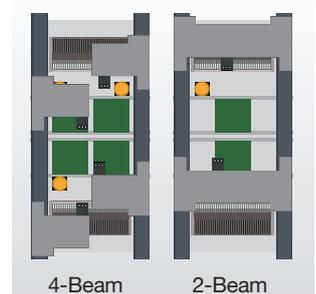
Select from two beam variations to meet your specific need focusing on maximizing speed or flexibility. Our 4-beam platform is optimized for high speed chip mounting or the 2-beam platform that offers flexible handling of a wide range of components including odd-shaped chips and connectors.

• **4-BEAM**

Optimal configuration for a high-speed chip shooter

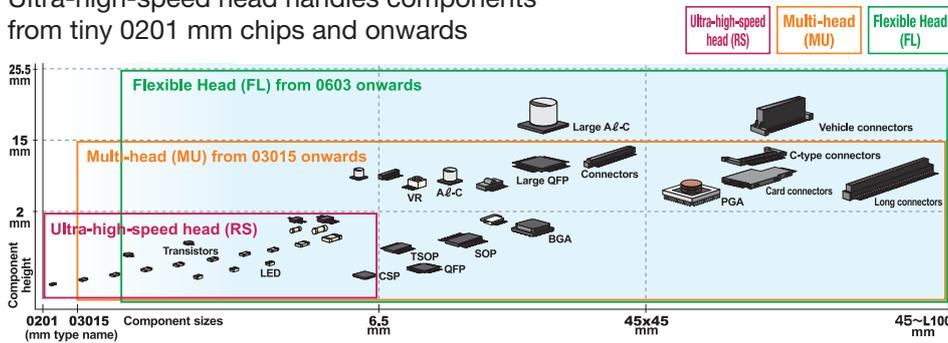
• **2-BEAM**

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



Tray and feeder Carriages

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



Automatic tray supply carriage



Feeder exchange carriage

FEATURE 3 High tech to support high mounting quality & a high machine operating rate

Nozzle Diagnostic function

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



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 mm chips.



Rotary head tip filter

A filter attached to the shaft tip prevent debris from entering the vacuum system. This eliminates recognition data failures which minimizes downtime and maintenance costs.



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.

High speed side-view camera

Monitors component presence in realtime with verification at component pickup and again pre and post placement.



Highly stable & reliable pickup system

This system automatically maintains high reliability component pickup by employing a high-performance vacuum pump, pickup position auto-correction function and pickup height auto-teach function.

