<table>
<thead>
<tr>
<th>Model</th>
<th><strong>Z:TA-R YSM40R</strong></th>
<th><strong>Z:TA-R YSM40R-4</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable PCBs</td>
<td>2-beam, 4-head specs. (YSM40R)</td>
<td>2-beam, 2-head specs. (YSM40R-2)</td>
</tr>
<tr>
<td>Mounting accuracy</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Mounting capability</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Applicable components</td>
<td>Ultra-high-speed (RS) head</td>
<td>—</td>
</tr>
<tr>
<td>Power supply</td>
<td>3-Phase AC 200/208/220/240/380/400/416V +/- 10%</td>
<td>—</td>
</tr>
<tr>
<td>Air supply source</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>External dimension</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 2,100 kg</td>
<td>—</td>
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</tbody>
</table>

**Z:TA-R Specifications**

Specifications and appearance are subject to change without prior notice.

The models shown in the photographs in this catalogue may differ slightly from the standard specifications.

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**YSM40R-4 External dimension**

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**YSM40R-2 External dimension**

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**Z:TA-R Ultra-High-Speed Modular PCB Assembly System**
Ultra-High-Speed Modular

Z:TA-R

YSM40R

Achieves revolutionary productivity of 200,000 CPH, giving it the world’s fastest speed on a compact platform.

World’s fastest
200,000CPH (in-house comparison)

Compact
Machine width of 1 m

Flexible
Available in 3 head variations

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

Feature
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.

Ultra-high-speed 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.

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.

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 area. It is a powerful tool for making maximum use of limited factory space!

Feature
Flexible response for different production configurations!

4 types of head variations
- Multi-head (MJ head):
  - MJ head offers the advantages of both component adaptability and high-speed to handle components from 0020 to 65mm in length and heights up to 15mm.

- 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.

- 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 tiny feeders at front and rear.

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

Feature
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.

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

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

Rotary head tip filter
A filter attached to the shaft tip prevents dirt and grime entering, thereby minimizing down-time and maintenance costs.

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.

High speed side-view camera
Monitors the component retention state in real-time with no loss at 3 periods or namely, right after picking right before mounting, and right after mounting.

Auto recognition optimizer functions
These functions include eVision for auto-generation and tuning 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 high performance vacuum pump, pickup position auto-correction functions, and pickup height auto-tune function.

Feature
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 mid-sized PCB on up to large-sized PCBs of 700mm in length.

Component sizes
- 0201 to 0402
- QFP
- BGA
- SOP
- C-Type connectors
- Card connectors
- Vehicle connectors
- PGA

Head variations & matching components
Ultra-high-speed head handles components from tiny 0201 chips and onwards.

- Ultra-high-speed head (RS)
  - RS head handles components from 0201 to 6.5mm square on up to heights of 2mm.

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

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