**Z:LEX Specifications**

- Specifications and appearance are subject to change without prior notice.

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### Applicable PCB

<table>
<thead>
<tr>
<th>Model</th>
<th>YSM20</th>
<th>YSM20W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual stage (only for X axis 2-beam specs.)</td>
<td>1 PCB conveyance: L810 x W490 to L50 x W50</td>
<td>Single lane: L810 x W742 to L50 x W50</td>
</tr>
<tr>
<td></td>
<td>2 PCB conveyance: L380 x W490 to L50 x W50</td>
<td>Dual lane (only for X axis 2-beam specs.)</td>
</tr>
<tr>
<td>Single lane L810 x W490 to L50 x W50</td>
<td>L810 x W356 to L50 x W50</td>
<td>L810 x W230 to L50 x W50</td>
</tr>
<tr>
<td>Dual lane (only for X axis 2-beam specs.)</td>
<td>L810 x W230 to L50 x W50</td>
<td>L810 x W230 to L50 x W50</td>
</tr>
</tbody>
</table>

### Head / Applicable components

- High-speed multi-purpose (HM: High-speed Multi) head x 2: 03015 to 45 x 45mm L100mm, Height 15mm or less
- Note: Multi-camera (option) may be needed in some cases due to part height and part size.
- Odd-shaped components (FM: Flexible Multi) head: 03015 to 55 x 55mm L100mm, Height 28mm or less

### Mounting capability

- X axis 2-beam: High-speed multi-purpose (HM: High-speed Multi) head x 2: 90,000CPH (under optimum conditions as defined by Yamaha Motor)
- X axis 2-beam: High-speed multi-purpose (HM: High-speed Multi) head x 2: 80,000CPH (under optimum conditions as defined by Yamaha Motor)

### Mounting accuracy

- ±0.035mm ±0.025mm Cpk ±1.0 (3 e)
- (order optimum conditions as defined by Yamaha Motor when standard evaluation materials are used)

### Number of component Types

- Fixed plate: Max.140 types (conversion for 8mm tape feeder)
- Feeder carriage exchange: Max.128 types (conversion for 8mm tape feeder)
- Trays for 30 types (fixed) and 10 types (carriage)

### Power supply

- 3-Phase AC 200/208/220/240/380/400/416V +/- 10% 50/60Hz

### External dimension (excluding projections)

- L 1,374 x W 1,857 x H1,445mm
- L 1,374 x W 2,110 x H1,445mm

### Weight

- Approx. 2,050 kg
- Approx. 2,500 kg

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**Z:LEX YSM20/YSM20W**

**High-Efficiency Modular**

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**SMT Innovation**

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**PCB ASSEMBLY SYSTEM**

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**DISTRIBUTOR**

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**IM Operations**

- YAMAHA MOTOR IM (SUZHOU) CO., LTD.
  - Fuzhou office: 64 Moo1, Bangna-Trad Rd., Km.21, Tambol Srisa Jorrake Yai, Amphur Bangsaothong, Samutprakarn 10540, Thailand, Telephone: 66-2740-8340, Facsimile: 66-2740-0996
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The 1-head solution!
Needs no head replacement!
03015 to large-size components

The two types of new heads are developed with the ideal of the “1 head solution” concept, which allows compatibility with a wide range of components at high speeds without the need for head replacement.

- **High-speed multi-purpose (HM: High-speed Multi) head**
  This universal type head head for high-speed mounting and versatility supports from ultra-tiny chips of 03015 (mm) and large-size components of heights to 28 mm.

- **Odd-shaped components (FM: Flexible Multi) head**
  Super wide-ranging type head supports load control, and handles a broad spectrum of components from ultra-tiny chips of 03015 (mm), to ultra-large components of heights to 28 mm.

**Superb mounting performance 90,000 CPH**
(under optimum conditions as defined by Yamaha Motor)

Besides incorporating a new-generation servo system employing high speed control technology, this mounter also has a newly designed 2-axis linear motor and tiny scan camera unit, as well as down-sized lightweight head with all sections revamped down to the small details to provide super mounting performance.

**Feature 2**
Wide support capability turns the concept of “Limitless EXpansion” into a reality!

**Compatible components**
- High-speed multi-purpose (HM: High-speed Multi) head
- Odd-shaped components (FM: Flexible Multi) head

**Handling large PCBs**
- **YSM20**
  On YSM20, you can select the conveyor systems from dual-stage, single-lane and single-lane. It supports large PCBs up to L810 x W490mm (dual-stage, single-lane conveying of single PCB) or L810 x W230mm (dual-lane).

- **YSM20W**
  On YSM20W, you can select the conveyor systems from dual-stage and single-lane. The YSM20W drastically boosts the range of PCB coverage, conveying PCB sizes to a maximum of L810 x W742mm, payload up to 10kg, and PCB thicknesses up to 8mm (single lane).

**Feature 3**
Numerous functions to support high-quality mounting are included as standard features.

- **Side view function**
  Detects pickup status and component’s presence with no downtime loss.

- **Blow station**
  Automatic blow cleaning function keeps nozzle clean for long periods.

- **High-speed smart recognition**
  Highly robust “High-speed Smart Recognition” that also creates recognition data for custom or unique components in a short time is now standard equipment.

**Feature 4**
Feeders and supply devices offering a high degree of freedom

- **Feeder carriage exchange**
  External setup-changeover feeder: one-step replacement carriage

- **Components providing device**
  Auto replace ment 30 stage fixed type tray feeder “sATS30” and 10 stage carriage tray feeder “CATS10” which is replaceable with feeder carriage are also available.

- **I2S feeder**
  Also supports thin, light-weight, compact, single lane type motorized intelligent feeders. Customer can select from non-stop feeder replacement function specs. Specifications also support conventional SS feeders.