

High Speed SMT Placement Machine Module Z:LEX YSM20 With Dual Lane

Our Product Introduction

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Basic Information

- Place of Origin: Japan
- Brand Name: YAMAHA
- Model Number: YSM20
- Minimum Order Quantity: 1 PCS
- Price: USD+negotiable+pcs
- Packaging Details: 150*200*160cm
- Delivery Time: 1-7 days
- Payment Terms: T/T
- Supply Ability: 1+pcs+per days

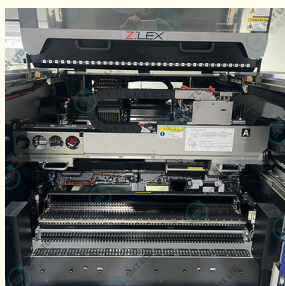


Product Specification

- Model: YSM20
- Applicable PCB: Dual Stage (X Axis 2-beam Specs.)
- 1 PCB Conveyance: L810 × W480 To L50 × W50
- 2 PCB Conveyance: L380 × W480 To L50 × W50
- Single Lane: L810 × W480 To L50 × W50
- Dual Lane: L810 × W230 To L50 × W50
- Mounting Capability X Axis 2-beam: High-Speed Multi-purpose (HM) Head × 2
- Flexible Multi (FM) Head: 03015 To 55 × 55mm L100mm, Height 28mm Or Less
- Number Of Component Types Fixed Plate: Max. 140 Types (8mm Tape Feeder Conversion)
- Feeder Exchange Carriage: Max. 128 Types (8mm Tape Feeder Conversion)
- Tray: 30 Types (fixed Type), 10 Types (carriage Type)
- Power Supply: 3 Phase AC



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Product Description

Title: The Z:LEX YSM20: A High-Speed Placement Machine Module Revolutionizing SMT Introduction

The Z:LEX YSM20 High-Speed Placement Machine Module represents a leap forward in surface mount technology (SMT), offering high speed, accuracy, and flexibility for electronics manufacturing. This module, part of the YAMAHA YSM20 series, is designed to meet the demands of modern production lines requiring high throughput and versatility[5]. The YAMAHA YSM20 distinguishes itself through its modular design, advanced component handling, and seamless integration capabilities, making it a key asset for efficient and reliable SMT processes[5].

Key Features and Benefits

High-Speed Mounting: The YAMAHA YSM20, in its various configurations, achieves impressive mounting speeds. The Z:LEX YSM20 can reach up to 90,000 components per hour (CPH) with the HM head[3][5]. This high-speed capability allows manufacturers to significantly increase throughput and reduce production times.

Component Flexibility: The placement machine module is compatible with a wide range of components, from small chips to larger components[4]. It can handle components from 03015mm to 55 x 55mm, with heights up to 28mm using the Flexible Multi (FM) head[2][5][7]. This eliminates the need for frequent head changes and streamlines the production process.

Accuracy and Precision: With a mounting accuracy of $\pm 0.035\text{mm}$ ($\pm 0.025\text{mm}$) $Cpk \geq 1.0$ (3σ), the YAMAHA YSM20 ensures precise placement, reducing defects and improving overall product quality[1][5][7]. This level of accuracy is critical for high-density electronic assemblies.

Advanced Imaging: A new type wide-scan camera increases and expands recognition capability to support high speed mounting of parts up to 12 mm in size[6]. Also, use of side lighting gives high-speed recognition of ball electrode parts such as CSP (chip scale packages) and BGA (ball grid arrays)[6].

Versatile Configuration: The Z:LEX YSM20 offers both single-lane and dual-lane conveyor options, as well as single and dual-stage configurations to handle a variety of PCB sizes[1][6][7]. This allows manufacturers to tailor the machine to specific production needs and optimize mounting capabilities.

Seamless Integration: The YAMAHA YSM20 supports SEMI SMT-ELS communication standards, facilitating connection with other machines for functions like Auto Program Change-Over[1]. It can also integrate with IoT/M2M systems, linking Yamaha SMT machines with equipment from other companies to enhance productivity in the mounting process[1].

Technical Specifications

The YAMAHA YSM20 boasts a range of specifications that contribute to its performance[1]:

* **PCB Compatibility:** It handles single-lane PCBs from L810 x W490 to L50 x W50 and dual-stage PCBs. With the X-axis 2-beam option, it supports 1PCB conveyance: L810 x W490 to L50 x W50 and 2PCB conveyance: L380 x W490 to L50 x W50[1][7].

* **Feeder Capacity:** The machine can accommodate a large number of component types, with a fixed plate holding up to 140 types (8mm tape feeder conversion) and a feeder carriage exchange supporting up to 128 types (8mm tape feeder conversion)[1][3][5][7]. It also supports trays for 30 types (fixed) and 10 types (carriage)[1].

* **Power and Air Supply:** The YAMAHA YSM20 requires a 3-Phase AC power supply (200/208/220/240/380/400/416V +/-10% 50/60Hz) and an air supply of 0.45MPa or more, in a clean, dry state[1][3][5].

* **Dimensions and Weight:** The main unit's dimensions are L 1,374 x W 1,857 x H 1,445mm, with a weight of approximately 2,050kg[1][3].

Adaptability and Scalability

The YAMAHA YSM20 is designed for flexible manufacturing environments. Its modular design allows for easy customization and expansion, ensuring it can adapt to changing production requirements[5]. Optional features and accessories, such as FES carts for feeder setup and changeover, further enhance its versatility.

Discontinued Status

It's important to note that the High-Efficiency Modular Z:LEX YSM20R is now a discontinued product[1][4]. However, it remains a relevant model for those who already have it in operation or are considering used equipment.

Questions and Answers

Q1: What is the maximum mounting speed of the Z:LEX YSM20?

A1: The Z:LEX YSM20 can achieve a mounting speed of up to 90,000 CPH under optimum conditions with the HM head.

Q2: What is the component size range supported by the YAMAHA YSM20?

A2: The YAMAHA YSM20 supports components ranging from 03015mm to 55 x 55mm, and up to 55 x 100 mm depending on the head.

Q3: What are the power requirements for the YAMAHA YSM20?

A3: The YAMAHA YSM20 requires a 3-Phase AC power supply (200/208/220/240/380/400/416V +/-10% 50/60Hz).

Q4: What PCB sizes can the YAMAHA YSM20 accommodate?

A4: The YAMAHA YSM20 can handle single-lane PCBs from L810 x W490 to L50 x W50 and dual-stage PCBs. With the X-axis 2-beam option, it supports 1PCB conveyance: L810 x W490 to L50 x W50 and 2PCB conveyance: L380 x W490 to L50 x W50.

Q5: What is a key feature that enhances component recognition?

A5: A key feature is the wide-scan camera, which supports high-speed mounting of small components and, with side lighting, enables rapid recognition of ball electrode components.



High-speed Placement Machine Module Z:LEX YSM20 | GSSMT, Yamaha YSM20, Yamaha YSM20 (Yamaha YSM20 SMT Pick and Place Machine), YSM20 Yamaha, Yamaha YSM20 (Yamaha SMT Pick and Place YSM20), Yamaha YSM20 specifications, Yamaha YSM20 price, Yamaha YSM20 for sale, Yamaha YSM20 manual, Yamaha YSM20 review, Yamaha YSM20 speed, Yamaha YSM20 components size, Yamaha YSM20 placement accuracy, Yamaha YSM20 feeder capacity, Yamaha YSM20 spare parts, Yamaha YSM20 maintenance, Yamaha YSM20 training, Yamaha Z:LEX YSM20, High-efficiency modular mounter YSM20, SMT machine Yamaha YSM20, Yamaha YSM20 pick and place machine



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