

SMT Innovation YSM10

High-Speed Compact Modular



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YSM10

YSM series entry model mounter that achieved both the world's fastest speed and versatility in its class worldwide!

Note: Comparison of chip mounting performance (CPH) under optimal conditions in 1-beam 1-head class surface mounters (In-house company research as of January 2017)

The 1-head solution!

Handles components from tiny 03015 chips to 55mm × 100mm sizes without requiring head replacement

No.1 mounting speed in its class!

46,000CPH (under optimum conditions as)

Single Platform

Integrates three YS12 model types into 1 unit!



Feature



Ultimate basic machine featuring the three "1"

The 1-head solution!

Handles a wide range of components from 03015 (0.3mm × 0.15mm) ultra-micro-chips to large parts 55mm × 100mm and 15mm in height and needs no head replacement since it uses high-speed general-purpose heads the same as high-end models.



New scan camera

Improves scan camera performance that expands the size of high-speed mounting parts to 12mm.



HM (High-speed Multi) head

Standard type with 10 nozzle specifications for a compact body, light-weight, high-speed and versatility.



HM 5 head

Economy type having 5 nozzles with HM head functions unchanged, it is selectable according to productivity and budget needs.

Mounting speed making it No. 1 in its class!

By adopting a new-generation servo system from upper-ranked models and utilizing a lightweight and compact universal type head we have speeded up mounting more than 25% compared to conventional models to achieve the world's fastest mounting

Single Platform

Here, 3 models or namely the YS12 with flexibility and mobility, YS12P with some simpler specifications, and YS12F with superb component handling compatibility are integrated into one type of platform. This is a super-entry model combining high parts compatibility and versatility along with the usual small



Feature



Flexible response for different production configurations!

Compatible components Note: For parts sizes larger the width 45mm, recognition of parts is divided into sections. Multi-camera Scan-camera Scan-camera Scan-camera Connectors Connectors Connectors Large QFP FGA Card connectors Long connectors Transistors Transistors Scan-camera W55xL100mm

Multi-camera

High-speed and high-accuracy parts recognition to sizes exceeding 12mm or heights exceeding 6.5mm.



Nozzle station

Automatic replacement of spare nozzles and special order nozzles available.



Automatic replacement tray supply unit "sATS15"

A maximum of 15 parts trays can be loaded. (at tray pitch of 12.5mm)





Tape feeder

Electric-drive intelligent feeders "SS feeder" and "ZS feeder" fully compatible with all YS series models.



Feature



Functions that ensure stable production

Side view function

Eliminates mounting errors by detecting parts, missing parts, and part pickup status with no time loss.





Automatic recognition optimizer function

Prevents pickup and recognition errors by applying a function (smart recognition) that does easy data generation for parts

having complex shapes and also a recognition data auto-generator & tracking function. (e-Vision)



Highly stable & reliable pickup system

Maintains superb part pickup performance by way of a pickup height auto--teach function and pickup position auto compensator function.

Conforms to CE marking standards

Worldwide operability with equipment design that gives safety number one priority.

Note: This name signifies a safety standard required for equipment for install and usage in Europe.

Blow station

Nozzle shafts are automatically cleaned to keep the nozzle in good condition for long periods of time. A nozzle health check function

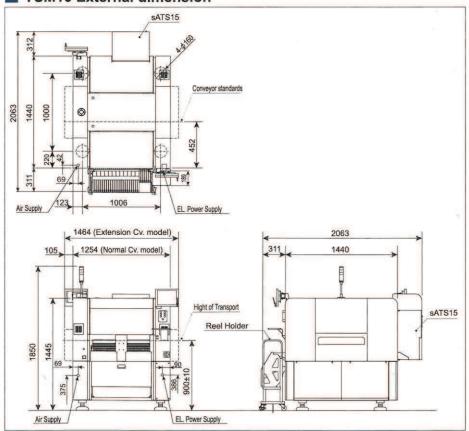
applies automatic recovery processes such as nozzle blow and a protect function to prevent use of abnormal nozzles.



YSM10 Specifications Note: Specifications and appearance are subject to change without prior notice.

Model	YSM10
Applicable PCB	L510 x W460mm to L50 x W50mm
	Note: Available in lengths up to L610mm as an option
Applicable components	03015 to W55 x L100mm (For parts sizes larger the width 45mm, recognition of parts is divided into sections.), Height 15mm or less
	Note: A multi camera (option) is required for part heights exceeding 6.5mm or part sizes exceeding 12mm
Mounting capability	HM head (10 nozzle) specification : 46,000CPH (under optimum conditions as defined by Yamaha Motor)
	HM 5 head (5 nozzle) specification : 31,000CPH (under optimum conditions as defined by Yamaha Motor)
Mounting accuracy	±0.035mm (±0.025mm) Cpk≥1.0 (3σ)
(Under optimum conditions as defined by Yamaha Motor	Control of the Contro
when standard evaluation materials are used)	
Number of component types	Fixed plate : Max.96 types (conversion for 8mm tape feeder)
	Tray: 15 types (maximum when equipped with sATS 15, JEDEC)
Power supply	3-Phase AC 200/208/220/240/380/400/416V +/- 10% 50/60Hz
Air supply source	0.45MPa or more, in clean, dry state
External dimension	L1,254 x W1,440 x H1,445mm
Weight	Approx. 1,270kg

YSM10 External dimension



DISTRIBUTOR



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