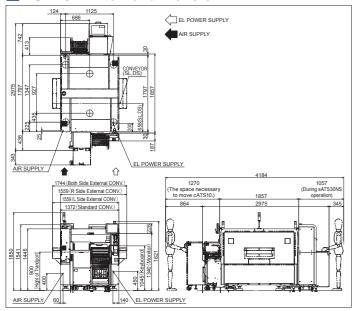
Specifications * Specifications and appearance are subject to change without prior notice.

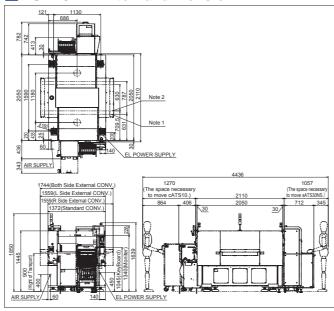
Model	YSM20R TypePV	YSM20R TypeSV	YSM20WR
Applicable PCB	Single lane		Dual lane
	L810 x W490 to L50 x W50		Note 1 Same type PCBs: L810 x W356 to L50 x W50
	Dual stage Note: For X-axis 2-beam option only		Different type PCBs : up to L810 x W662
	1PCB conveyance : L810 x W490 to L50 x W50 2PCB conveyance : L380 x W490 to L50 x W50		Note 2 Same type PCB : L810 x W280 to L50 x W50
			Different type PCBs : up to L810 x W510
Head / Applicable	High-Speed Multi (HM) Head Note 3:	High-Speed Multi (HM) Head:	High-Speed Multi (HM) Head Note 3:
components	0201 to W55 x L100mm, Height 15mm or less	03015 to W55 x L100mm, Height 15mm or less	0201 to W55 x L100mm, Height 15mm or less
	Odd-shaped components (FM : Flexible Multi) head :	Odd-shaped components (FM : Flexible Multi) head :	Odd-shaped components (FM : Flexible Multi) head :
	03015 to W55 x L100mm, Height 28mm or less	03015 to W55 x L100mm, Height 28mm or less	03015 to W55 x L100mm, Height 28mm or less
Mounting capability	X axis 2-beam : High-speed multi-purpose	X axis 2-beam : High-speed multi-purpose	X axis 2-beam Note 1 : High-speed multi-purpose
(under optimum conditions as	(HM : High-speed Multi) head x 2	(HM : High-speed Multi) head x 2	(HM : High-speed Multi) head x 2
defined by Yamaha Motor)	95,000CPH	90,000CPH	81,000CPH
Mounting accuracy	±0.035mm (±0.025mm) Cpk≧1.0 (3σ) (under optimum conditions as defined by Yamaha Motor when standard evaluation materials are used)		
Number of	Fixed plate : Max. 140 types (conversion for 8mm tape feeder)		
component	Feeder carriage exchange : Max. 128 types (conversion for 8mm tape feeder)		
Types	Trays for 30 types (Fixed type: max., when fitted with sATS30/sATS30NS) and 10 types (Carriage type: max., when fitted with cATS10)		
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	L 1,374 x W 1,857 x H1,445mm (Main unit only)		L 1,374 x W 2,110 x H1,445mm
(excluding projections)			(Main unit only)
Weight	Approx. 2,050kg (Main unit only)		Approx. 2,500kg (Main unit only)

Note 1: When using conveyor separation specifications of 787mm between 1 to 4 lanes Note 2: When using conveyor separation specifications of 630mm between 1 to 4 lanes Note 3: Please contact us for info regarding mounting 0201 components

■ YSM20R External dimension



■ YSM20WR External dimension



Note 1: When using conveyor separation specifications of 787mm between 1 to 4 lanes

DISTRIBUTOR

The models shown in the photographs in this catalog may differ slightly from the standard specifications.
 Specifications and appearance are subject to change without prior notice.

EXAMAPA

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SMT Innovation



High-End High-Efficiency Modular



SMT Innovation

High-End High-Efficiency Modular



All-purpose surface mounter with the highest speed in its class brings 1head solution evolution to a whole new level!



Handling large PCBs

L810 x W742mm (Supports YSM20WR)

Max. feeder count

40 types (under fixed specifications: conversion for 8mm tape feeder)





Achieves both a whole new dimension of versatility and high-speed for mounters via the 1-head solution

1-head solution

Two types of heads are available that bring the "1-head solution" to an even higher dimension capable of accommodating a wide range of components while maintaining high speed with no head replacement. High-speed general-purpose heads can be used for ultra-small (0201) chip components.



High-speed multi-purpose (HM: High-speed Multi) head

This universal type head made for high-speed mounting and versatility supports from ultra-tiny chips of 0201 (mm) to large-size components of 55 x 100 mm and height of 15 mm. (When using YSM20R Type PV / YSM20WR)



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 55 x 100 mm and tall components of heights to 28 mm.

Superb mounting performance 95,000 CPH (under optimum conditions as defined by Yamaha Motor)

Improving mounter operation from component pickup to mounting and using high-speed XY axes achieved production of 95,000 CPH which is 5% higher than conventional models. (When using YSM20R Type PV)

Huge improved adaptability to actual production

Mounting a new type wide-scan camera increases and expands recognition capability to support high speed mounting of components down to only □8 mm to □12 mm in size. Also, use of side lighting gives high-speed recognition of ball electrode components such as CSP (chip scale packages) and BGA (ball grid arrays).

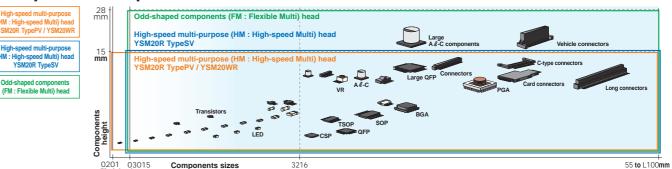
Beam variations available in 2 types

Achieving a common platform allows selecting from 1-beam and 2-beam for configuring the X-axis according to production mode and mounting capability. Note: YSM20WR only supports 2-beam configuration



Wide support capability turns the concept of "Limitless EXpansion" into a reality!

Compatible components



L=810

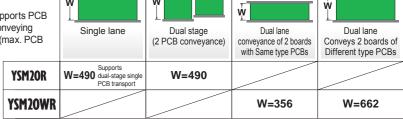
Conveyors available in freely configurable variations

●YSM20R

Conveyor system is selectable from dual stage, single lane. Supports PCB sizes to a max.L810 x W490 mm (Dual stage, single lane for conveying single PCB). Single lane also available in M size specifications (max. PCB size L360 x W490 mm) having superior cost performance.

●YSM20WR

Easily links with Z:TA-R, allowing a configuring a dual-lane line that best matches your production style. (When using conveyor separation specifications of 630mm between 1 to 4 lanes)



L=380 L=380

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

Side view function

Detects pickup status and component's presenge with no downtime loss.



Blow station

Automatic blow cleaning function keeps nozzle clean for long periods.



High-speed smart recognition

L=810

L=810

L810 x W50

Highly robust "High-speed Smart Recognition" that also creates recognition data for custom or unique components in a short time is now standard STEP 2





Achieves highly-streamlined components supply

sATS30NS Auto Tray Sequencer (ATS) for nonstop tray replacement

A new function has been added to the sATS30 Auto Tray Sequencer for automatic tray exchange and component feed. This new function automatically ejects pallets with empty trays during operation and feeds pallets with new trays into the machine. Operator can remove the pallet with empty tray and replenish pallet with full tray and press feed button. Pallet will automatic be supplied into the magazine. The magazine can be exchanged during changeover without stopping automatic operation. (Supports YSM20R Type PV / YSM20WR)

Nonstop feeder carriage exchange system

A cover with shutter was mounted on the pickup components of the opening

used during carriage clamp and release. The shutter automatically closes when

the carriage is detached so that carriages can be exchanged without stopping

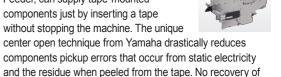
the machine. This improve the machine productivity. (Supports YSM20R Type PV / YSM20WR)



Newly developed and designed ALF (Auto Loading Feeder)

top tape is needed which vastly increases the operating rate.

Newly developed ALF, Auto Loading Feeder, can supply tape-mounted components just by inserting a tape without stopping the machine. The unique



ZS feeder

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

