



Z:LEX YSM20R **SMT Innovation**

High-Efficiency Modular Mounter

Caters effectively to a wide range of production processes.
World's fastest in its class.

YSM20R Single Lane

Maximum PCB size L 810 mm x W 490 mm

Mounting capability

95,000 CPH Champion
66,000 CPH IPC9850

YSM20WR Dual Lane

Max PCB size width 2 x W 356 mm
Single lane use max L 810 x W 662 mm

Maximum feeder count

140 fixed / 128 Feeder
exchange system

The YSM20R brings the 1-head solution yet to a higher level making it the world's fastest all-purpose surface mounter

The two types of new heads are developed with the ideal of the "one-head solution" concept, which allows compatibility with a wide range of components at high speeds without the need for head replacement. High-speed general-purpose heads can be used for ultra-small (0201 mm) chip parts.

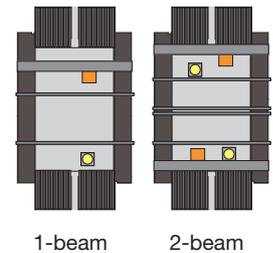
HM High-speed multi-purpose head (10 nozzles)

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.



Beam variations available in 2 types

Ideal for setting up a flexible mounting line. For having both good mounting performance and versatility, the Z:LEX offers a common platform selectable from 1-beam and 2-beam for an x-axis configuration to match your budget.



FM Flexible multi-purpose head (5 nozzles)

Super wide-range type head supports force 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 up to 28 mm.

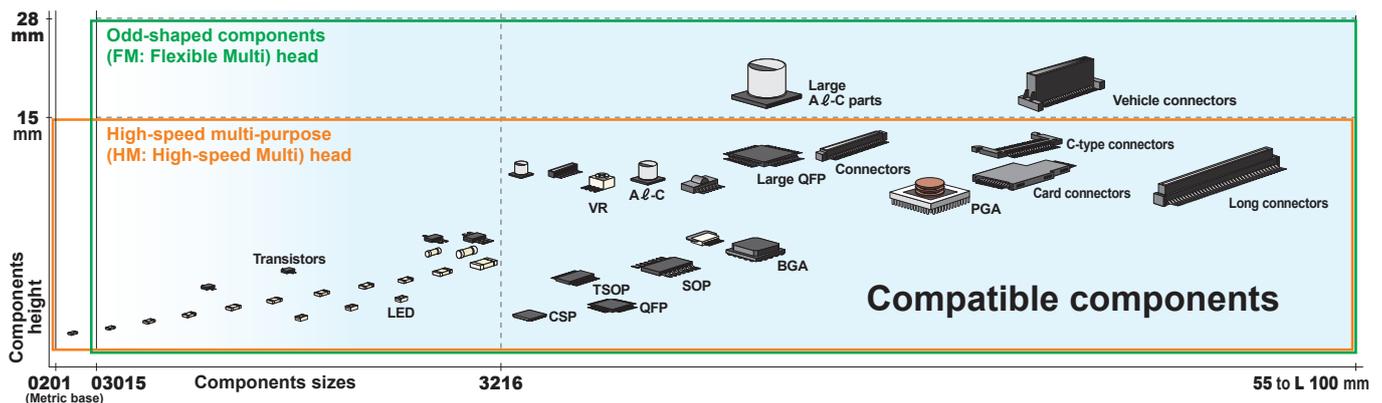


Superb mounting performance

Besides incorporating an advanced new servo system employing high-speed control technology, this mounter also has a newly designed z-axis linear motor. A new type wide-scan camera increases and expands recognition capability to support high speed mounting of parts up to 12 mm in size. Also, use of side lighting gives high-speed recognition of ball electrode parts such as CSP (chip scale packages) and BGA (ball grid arrays).

95,000 CPH Champion
66,000 CPH IPC9850

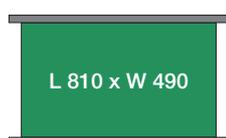
Limitless expansion becomes reality: wide support capabilities!



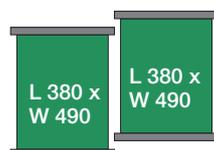
Handling large PCBs

Z:LEX YSM20R you can select a single-lane conveyor or dual stage conveyor on 2-beam system, to match the PCB size and production volume you need.

Z:LEX YSM20WR configurations support a wide range of PCB sizes up to L 810 x W 662 mm (maximum 1 lane used) or two boards up to L 810 x W 356 mm (dual lane).



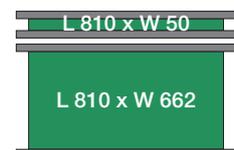
Dual stage, single lane (1 PCB conveyance)



Dual stage (2 PCB conveyance)



Dual lane, conveys 2 boards with identical widths

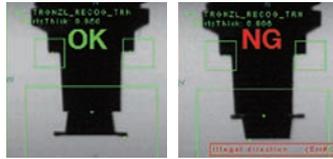


Dual lane, conveys 2 boards of different widths

Many high-end functions included as standard features

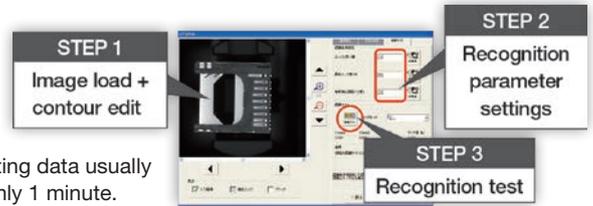
Side-view function

Detects pickup status and component's presence with no time loss.



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 functionality.



Generating data usually takes only 1 minute.

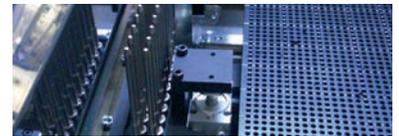
Nozzle cleaning station

Automatic cleaning function, passing high-pressure air through spline and nozzle, keeps nozzles clean for extended periods.



Automatic pin support

Automatically change-over the support pin's location according to the program.



Multiple part supply devices offer an increasing efficiency level matching your budget



Newly developed and designed ALF (Auto Loading Feeder)

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

center open technique from Yamaha drastically reduces part pickup errors that occur from static electricity and the residue when peeled from the tape. No recovery of top tape is needed which vastly increases the operating rate.



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/ES feeders.



Nonstop feeder carriage exchange system

A cover with shutter was mounted on the pickup part 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.

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.



sATS30



cATS10



sATS30NS

