

News Release

Announcing Yamaha High-end High-efficiency Modular Z:LEX YSM20R, All-around surface mounter with enhanced “1-head solution” and achieving the world’s fastest mounting speed in its class



High-end high-efficiency modular mounter “Z:LEX YSM20R”

Yamaha Motor Co., Ltd. (Tokyo: 7272) announces the April 1, 2018 release of the Z:LEX YSM20R, a new all-around surface mounter*1 that offers the versatility to accommodate a wide range of production formats with flexibility and efficiency while also boasting a mounting speed of 95,000 CPH,*2 making it the world's fastest in its class (under optimum conditions).*3

The YSM20, a leading Z:LEX Series model, offers high productivity, adaptability to various components and superior production changeover ability based on its “1-head solution” concept to accommodate a wide range of component sizes—from super small chips to large components—with a single type of head. The new YSM20R is a high-end, high-efficiency modular mounter that enhances the production capabilities of the YSM20 and joins the series lineup as a deluxe model aimed at boosting competitiveness.

With the YSM20R, Yamaha focused on increasing XY-axis speeds and revising the actions involved for pick-up to placement, and successfully improved mounting speed by approximately 5% compared to the YSM20. Also, by improving the performance of the wide-scan camera on the head, the YSM20R can mount components up to 12×12 mm in size (up from 8×8 mm) at high speed, thus improving productivity. Further, the new Auto Loading Feeder (ALF) using proprietary Yamaha Motor technology, the “sATS30NS” Auto Tray Sequencer (ATS) for nonstop tray replacement and nonstop feeder carriage exchange system (all available as options) reduce costs and time loss while further improving machine operation rate.

*1: Surface mounter: Manufacturing machine for mounting various electric/electronic components on the printed circuit boards (PCBs) used in electrical appliances and electronic devices.

*2: CPH (Chips Per Hour): Total number of chips that can be mounted per hour (unit time). Indicates processing capacity under various conditions.

*3: Components mounting speed (CPH) for a surface mounter with the 2-beam, 2-head layout under optimum conditions. Based on Yamaha Motor data as of January 2018.

ABOUT YAMAHA SMT Section

Yamaha Surface Mount Technology (SMT) Section is a subdivision of Yamaha Motor Robotics Business Unit in Yamaha Motor Corporation. Yamaha surface mount equipment is highly acclaimed in the market for their “module concept” that enables them to keep pace with the trend toward smaller and more diverse electric/electronic parts being mounted on circuit boards.

Yamaha SMT Section has created a strong business in the surface mount industry that enables design and engineering, manufacture, sales and service to be conducted in one comprehensive system. Furthermore, the Company has used its core technologies in the areas of servo-motor control and image recognition technology for vision (camera) systems to develop solder paste printers, 3D solder paste inspection, 3D PCB inspection machines, flip chip hybrid placers and dispensers. This allows Yamaha SMT Section to offer a full line of machines for electric/electronic parts mounting and propose optimum production-line makeup to answer the diversifying needs of today’s manufacturers.

Yamaha SMT Section has sales and service offices in Japan, China, Southeast Asia, Europe and North America provide a truly global sales and service network that will safeguard best in class on-site sales & service support for clients

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