Product lineup

**High-Speed Modular Mounter**

**FX-3RA**  
High Speed, High Quality, High Productivity

- Component speed: 90,000CPH (Optimum)
- Component size: 0402~0603
- Board size: L size: 410×360 mm, XL size: 610×560 mm
- Head Specification: Multi-nozzle Laser head×4 (6 nozzles)
- Feeder Inputs: Max. 240 in case of 8mm tape (on a Electric double tape feeder)

**High-Speed Chip Shooter**

**KE-3010A**  
For placement of ultra-small components

- Component speed: 23,500CPH Chip (Laser recognition/Optimum)  
  9,000CPH IC (Vision recognition/MNVC option)
- Component size: 0402~0603
- Board size: Msize: 330×250mm, Lsize: 410×360mm
- Head Specification: Multi-nozzle laser head×1 (6 nozzles)

**High-Speed Flexible Mounter**

**KE-3020VA**  
For placement of large/odd-shaped components

- Component speed: 20,900CPH Chip (Laser recognition/Optimum)  
  9,470CPH IC (Vision recognition/MNVC)
- Component size: 0402~0603
- Board size: Msize: 330×250mm, Lsize: 410×360mm
- Head Specification: Multi-nozzle laser head×1 (6 nozzles) plus  
  IC head with CDS sensor (1 nozzle)×1

Please refer to the product specifications for details.

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JUKI Global Smart Solutions

Innovative production efficiency improvement in your entire factory.

Fast Smart Modular Mounter

RS-1

Smart product support for any type of PCB
- Placement speed: 42,000CPH (Optimum)
- Component size: 0201*1~74mm/50×150mm
- Board size: 650×370mm (1 buffer)

- New head design automatically adjusts the centering height based on components placed.
- Class leading speed, up to 42,000 cph\(^2\)
- Optimum line balance and highest throughput
- New RF feeders are smaller, thinner, and lighter
- Wide component range

New Head Design

- Short Component
  - Laser Unit
  - 1mm component height position
  - QFP,etc
- Tall Component
  - Laser Unit
  - 25mm component height position

Rated 42,000 CPH\(^2\)

Class leading speed, up to 42,000 cph

- Placement speed: 42,000CPH\(^*2\)
- Component size: 0201*1~74mm/50×150mm
- Board size: 650×370mm (1 buffer)

- New head design automatically adjusts the centering height based on components placed.
- Class leading speed, up to 42,000 cph\(^2\)
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PWB Visual Inspection Machine (SPI/AOI)

RV-1

RV-2

RV-2-3D

Inline high-speed, high-accurate PWB inspection machine available for various purpose.

- Board size:
  - Single lane conveyor (RV-1): 150mm×50mm, 510mm×590mm, 630mm×590mm (longer sized PWB)\(^1\)
  - (RV-2): 500mm×50mm, 410mm×300mm, 630mm×360mm (longer sized PWB)\(^1\)
  - (RV-2-3D): 500mm×50mm, 410mm×300mm (longer sized PWB)\(^2\)

- Dual lane conveyor (only RV-1): 500mm×50mm, 510mm×590mm
- Inspection resolution: 15µm (standard), 10µm (high resolution)\(^3\)
- Display field angle: 30.0°×35.0°, 20.0°×20.0°\(^2\)

- “Clear Vision Capturing System” enables high-speed and high-precision quality determination.
- Selection of "Template mode" or “Process mode” allows high-precision inspection with easy operation.
- Compatible program by avoiding machine difference.

Sample 3D Images

- Fillet inspection algorithm
  - Compare solder shape to 3D images
  - High accuracy inspection
  - Easy operation
  - Very simple parameters

Patent pending

High-speed inspection

0.14sec*
High-Speed Compact Modular Mounter
RX-7
Chip mounter realizing high speed placement of small component
- Component speed: 75,000 CPH (optimum)
- Component height: 03015 ~ 0402
- Board size: Single lane conveyor specification
  50×50 ~ 510×450
- Dual lane conveyor specification
  50×50 ~ 510×250
- Head specification
  P16 × P16 nozzle head
  P16 × P8 nozzle head
- PS × P8 nozzle head
- Compact design of 998mm width.
- Planet head equipped.
- Parallel placement heads and dual lane conveyor equipped - realize high productivity

Solder Paste Printer
RP-1
High-speed and high-precision printer equipped with “Motion Screen”
- Board size: 50×50 ~ 510×510
- Cycle time: 660μ + Printing time
- Printing accuracy: ±10μm

High-Speed Compact Modular Mounter
RX-6R
High-speed flexible mounter corresponding to wide range of components and PWB
- Component speed: 52,000 CPH (optimum)
- Component size: 0402 ~ 0805
- Board size:
  - Single lane conveyor specification
    50×50 ~ 610×590
  - Dual lane conveyor specification
    50×50 ~ 610×250
- Head specification
  6×6 nozzle head
- Chip component Placement speed 52,000 CPH (optimum)
- Placement speed is increased by 24% compared with the existing model.
- Compact design of 1,250mm width
- Dual-lane production available

RX-6B
High-speed compact modular mounter
- Component speed: 52,000 CPH (optimum)
- Component size: 0402 ~ 0805
- Board size:
  - Single lane conveyor specification
    50×50 ~ 610×590
  - Dual lane conveyor specification
    50×50 ~ 1,500×360
- Head specification
  6×8 nozzle head
- 3 times clamping
- Long board placement for using RX-6R / RX-6B

JX-350
Long Board SMT Placement Machine
- Expanded versatility for LED production and more!
- JX-350 is now available with faster placement speed and improved placing ability
- Placement speed: 32,000 CPH CHIP (Laser recognition/optimum)
- Component size: 0603 ~ 033.5mm
- Board size: 650×360
- Times clamping: 1,200 ~ 360
- Placement speed: 32,000 CPH (optimum)
- Head specification: Multi nozzle laser head x 1 (6 nozzles)
- Alternate pick by long nozzles* achieves high-speed placement for large component up to 25 mm diameter.
Multitask Platform

**JM-10**

Higher quality and labor savings by automating manual insertion.

**JM-20**

New vision recognition method called DFFP can precisely recognize lead tips for greater flexibility. Component such as DIMM and PCI connectors, and large automotive parts are supported.

Image recognition

Laser recognition

The laser sensor is ideal for lead tip detection leading to improved insertion process.

**ISM series**

**ISM3600**

**ISM2000**

**ISM1100**

**ISM500**

Automatic supply of components for electronic assembly. Improved production efficiency and material control.

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- Corresponds to large reel
- Corresponds to 7 inch reel 8 mm - 16 mm width, 13/15 inch reel 8 mm - max. 88 mm width
- Capable to store JEDEC tray in combination
- Humidity control unit will keep the humidity level inside the storage below 5%

Data creation function

- **Cluster optimization**
  
  Cluster optimization groups several different production files together in a common feeder setup. It reduces changeover time by eliminating the need to setup feeders between jobs.

- **Flexline CAD**
  
  Data conversion system to convert text data files generated by CAD systems or output from other machines to JUKI data format. Users can choose from pre-defined input formats or define and save custom conversion formats.

Parts verification

IFS-NX ensures the correct components are placed on the PCB by verifying the part number required to the reels used. Production cannot start if any component is incorrect. Match is also verified every time a component is replenished.

**With RFID/CAN System**

This location of every feeder is automatically detected when the feeder is placed on the machine. It helps the operator’s efficiency and provides a double check of the location.