

PLACEMENT SOLUTION

| KE-3010 SERIES

| KE-3020 SERIES

| RX-6 SERIES

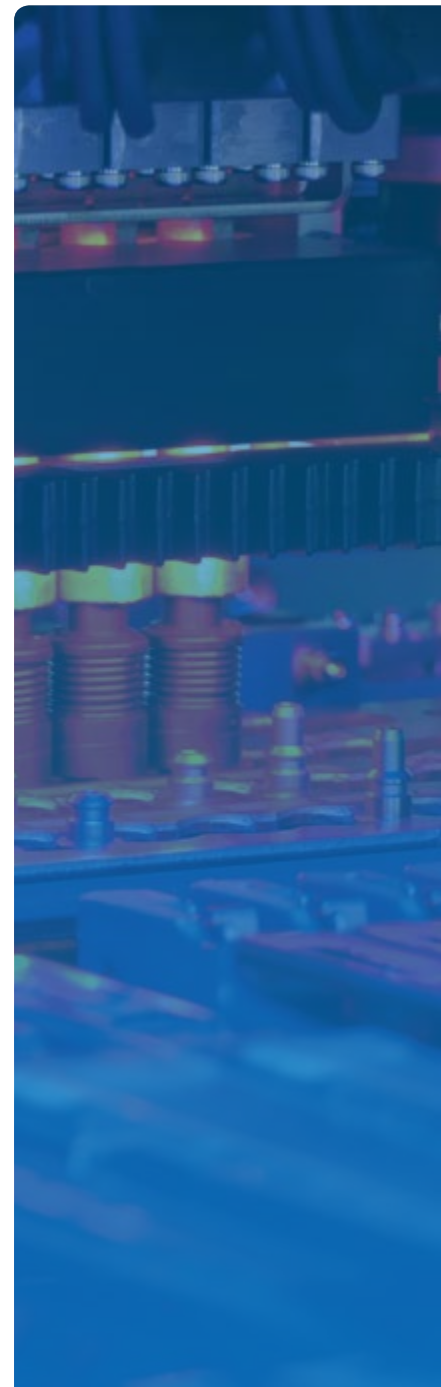
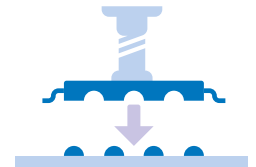
| FX-3 SERIES

| RS-1 SERIES

| RX-7 SERIES

| JX-350 SERIES

| JM-20 SERIES



PLACEMENT SOLUTION PORTFOLIO

*highest reliability - broad component range - best price versus performance ratio -
mechanical & electronic feeders - three years warranty on parts*



KE-3010 und KE-3020 Series can be equipped with mechanical as well as electronic feeders. They are both available with the options Intelligent Feeder System and Traceability.

KE-3010 SERIES Speed Mounter

- Placement head:
 - multi-nozzle laser head (6 nozzles)
- Placement rate:
 - up to 23,500 CPH laser centering (optimum)
- Component range:
 - 0402 (metric) 01005 (inch) up to 33.5 × 33.5 mm
- Component height:
 - up to 12 mm
- Placement accuracy:
 - ±50 µm (Cpk 1) laser centering
 - ±40 µm vision centering
- Board dimensions:
 - up to 1,210 × 560 mm
- Feeder spaces:
 - up to 160 (8 mm electronic double tape feeder)



KE-3020 SERIES Flex Mounter

- Placement head:
 - multi-nozzle laser head (6 nozzles)
 - high-precision head (1 nozzle)
- Placement rate:
 - up to 20,900 CPH laser centering (optimum)
- Component range:
 - 0402 (metric) 01005 (inch) up to 74 × 74 mm or up to 50 × 150 mm
- Component height:
 - up to 25 mm
- Placement accuracy:
 - ±50 µm (Cpk 1) laser centering
 - ±30 µm vision centering
- Board dimensions:
 - up to 1,210 × 560 mm
- Feeder spaces:
 - up to 160 (8 mm electronic double tape feeder)

PLACEMENT SOLUTION PORTFOLIO

highest reliability - huge component range - best price versus performance ratio -
three years warranty on parts



FX-3 Series can be equipped with mechanical and electronic feeders and is available with the options Intelligent Feeder System and Traceability.

FX-3 SERIES

Speed Mounter

- Placement head:
 - four multi-nozzle laser heads (6 nozzles each)
- Placement rate:
 - up to 90,000 cph laser centering (optimum)
- Component range:
 - 0402 (metric) 01005 (inch) up to 33.5 × 33.5 mm
- Component height:
 - up to 6 mm
- Placement accuracy:
 - ±50 µm (Cpk 1) laser centering
- Board dimensions:
 - up to 800 × 560 mm
- Feeder spaces:
 - up to 240 (8 mm electronic double tape feeder)



RX-7 SERIES

Ultra High-Speed Mounter

- Placement head:
 - P16 / P16: 2 high-speed rotary heads (16 + 16 nozzles)
 - P16 / P8: 2 high-speed rotary heads (16 + 8 nozzles)
 - P8 / P8: 2 high-speed rotary heads (8 + 8 nozzles)
- Placement rate:
 - up to 75,000 CPH (optimum)
- Component range:
 - 0402 (metric) up to 25 × 25 mm
- Component height:
 - up to 10.5 mm
- Placement accuracy:
 - ±40 µm (Cpk 1)
- Board dimensions:
 - up to 510 × 450 mm (single mode)
 - up to 510 × 250 mm (dual mode)

PLACEMENT SOLUTION PORTFOLIO

*unbeatable price ratio per placed component and square meter -
widest possible component range - three years warranty on parts*



RS-1 SERIES

Fast Smart Modular Mounter

- Placement head:
 - adaptive 8 nozzle head
- Placement rate:
 - 42,000 CPH (optimum)
- Component range:
 - 0201 (metric) - 74 × 74 mm / 50 × 150 mm
- Component height:
 - up to 25 mm
- Placement accuracy:
 - ± 35 µm (Cpk ≥ 1)
- Board dimensions:
 - up to 1200 × 370 mm
- Feeder spaces:
 - up to 112 (8 mm single lane feeder RF type)



RX-6 SERIES

Flex Mounter

- Placement head:
 - RX-6/6: Two multi-nozzle laser heads (6 nozzles each)
 - RX-6/3: One multi-nozzle laser head (6 nozzles)
One high-precision head vision centering (3 nozzles)
- Placement rate:
 - up to 52,000 CPH laser centering (optimum)
- Component range:
 - RX-6/6: 0402 (metric) up to 50 × 50 mm
 - RX-6/3: 0402 (metric) up to 100 × 100 mm or up to 50 × 180 mm
- Component height:
 - up to 33 mm
- Placement accuracy:
 - ±40 µm (Cpk 1) laser centering
 - ±30 µm vision centering
- Board dimensions:
 - up to 905 × 590 mm (single mode)
 - up to 360 × 250 mm (dual mode)

PLACEMENT SOLUTION PORTFOLIO

*highest flexibility and quality at low cost - compact design -
handling of long boards - perfectly suited for low-cost LED placement -
three years warranty on parts*

JX-350 SERIES

Compact High-Speed Moulder

- | Placement head:
 - multi-nozzle laser head (6 nozzles)
- | Placement rate:
 - up to 32,000 CPH laser centering (optimum)
- | Component range:
 - 0603 (metric) 0201 (inch) up to 33.5 × 33.5 mm
- | Component height:
 - up to 12 mm
- | Placement accuracy:
 - ±50 µm (Cpk 1) laser centering
- | Board dimensions:
 - up to 1,500 x 360 mm



PLACEMENT SOLUTION PORTFOLIO

THT and SMT assembly - large and heavy odd-form components - highly flexible component range - three years warranty on parts

JM-20 SERIES

Multitask Platform

- Placement head:
 - multi-nozzle laser head (6 nozzles)
- Placement rate THT:
 - up to 0.8 s/part (flat top surface parts using vacuum nozzle)
 - up to 1.3 s/part (flat side walls parts using gripper nozzle)
 - up to 1.8 s/part (axial parts)
 - up to 2.5 s/part (heavy parts using chuck nozzle)
- Placement rate SMT:
 - up to 15,500 CPH laser centering (optimum)
 - up to 4,200 CPH vision centering
- Component range:
 - 0603 (metric) 0201 (inch) up to 70.72 mm
- Component height:
 - up to 55 mm
- Component weight:
 - up to 200 g
- Placement accuracy:
 - $\pm 50 \mu\text{m}$ (Cpk 1) laser centering
 - $\pm 40 \mu\text{m}$ (Cpk 1) vision centering (optional)
- Board dimensions:
 - up to 800 × 560 mm (XL version)
- Feeder capacity THT:
 - up to 26 radial feeder (MRF-S)
 - up to 20 radial snap-in feeder (MRF-LF)
 - up to 16 axial feeder (MAF-L)
 - up to 8 customized bowl feeder
 - up to 1 matrix tray server (TR5SNI)
- Feeder capacity SMT:
 - up to 80 (8 mm tape feeder)



SELECTION OF OPTIONS

MECHANICAL FEEDERS MF

- Tape Feeder
- Stick Feeder
- Bulk Feeder
- ATF (slicing tape feeder)



ELECTRONIC FEEDERS EF

- Tape Feeder
- Stick Feeder



MULTI-NOZZLE VISION CENTERING (MNVC)

Vision centering by the multi-nozzle head nearly doubles the placement rate for smaller components, including CSPs, BGAs and smaller QFPs. MNVC is standard on the latest JUKI placement machines.



COPLANARITY SENSOR

Measures true coplanarity for both leaded components as well as BGAs, reducing the chance of a bad solder joint.



PLACEMENT FORCE CONTROL

Using a built-in load cell, the placement force of each nozzle can be measured and controlled during the placement process. The placement force can be set individually for every component.



COMPONENT VERIFICATION SYSTEM (CVS)

Component verification measures the resistance, capacitance and polarity of each component before the start of production or after replacing the components. This option prevents placement of incorrect components.



FLEX CALIBRATION SYSTEM (FCS)

JUKI's highly regarded easy maintenance just got even easier! The optional FCS calibration jig is a simple-to-use system to re-calibrate placement accuracy. The machine automatically picks and places jig components, then measures the error and adjusts all necessary calibrations.



FLUXER (LINEAR TYPE)

The fluxer is a device to apply flux to CSPs and flip chip components before placement. The linear fluxer uses a precise cavity to ensure the proper depth of flux.



OFFSET PLACEMENT AFTER SOLDER SCREEN PRINTING

Offset Placement After Solder Screen printing is a system to offset placements to correct for solder paste misalignment, which promotes the self-alignment effect and reduces the defect rate.

ELECTRONIC FEEDERS RF

- Tape Feeder



SELECTION OF TRAY FEED DEVICES

Matrix Tray Server (Rear Type)

Matrix Tray Changer (In-Line Type)

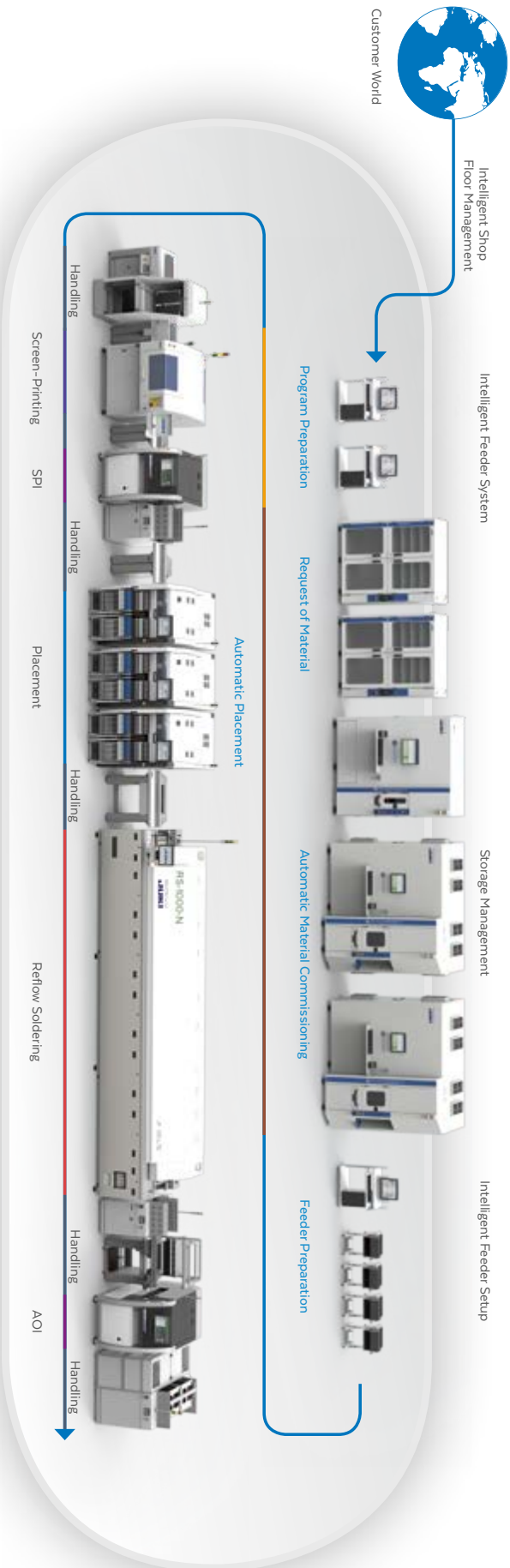
Dual Tray Server (Rear Type)

Matrix Tray Holder



JUKI specifications and design may be changed without notice.

PRODUCT PORTFOLIO



SOFTWARE SOLUTION



STORAGE SOLUTION



SCREEN-PRINTING SOLUTION



INSPECTION SOLUTION



PLACEMENT SOLUTION



SOLDERING SOLUTION



HANDLING SOLUTION