

KE-3020 - JUKI High-Speed Flexible Mounter

I.Description:

By introducing the KE-3020/3020R High-Speed Flexible Mounter that has enhanced compatibility with the FX-3, JUKI plans to further expand its product sales in the high-speed mounter market.



II.Features :

Flexible Mounter that Employs the Industry's First Hybrid Feeder Specification

It is possible to jointly use electronic and mechanical tape feeders in batch exchange trolley units. Since the batch exchange trolleys and mechanical tape feeders of previous machines can be used, existing equipment assets can be effectively utilized without waste, resulting in outstanding investment efficiency.

Inherits the Flexibility of the KE Series

Due to the support for a wide range of component sizes, from 0402 chips (minimum chip component size of 0.4 x 0.2 mm) to 74 mm square components and large-sized components up to 50 x 150 mm in size, the machines can be flexibly utilized to great effect in production lines.

The chip component placement speed is 20,900CPH (0.172 sec./chip: optimum conditions), (17,100CPH conforming to IPC9850)

The IC component placement speed is 2,200CPH (an approximately 19% improvement over previous machines), (5,800CPH when using the MNVC option)

Outstanding Operability

Intuitive operation will be possible using the fully graphical operation screen and the large-sized touch panel.

Program Support Function: Allows work confirmation while displaying and checking the program work in order up to the start of production.

General Purpose Vision Teaching Function: Shows guidance of component data creation procedures for odd-shaped components in an easily understood manner.

Wide Range of Support Capabilities

With the newly added XL size circuit board specification which also enables support for large-sized LCD (liquid crystal display monitor) manufacturing, support is provided for circuit board sizes up to a maximum of 610 x 560 mm.

Flux transfer is supported. (Option)

New Options that Maintain and Improve the Manufactured Product Quality

Component Verification Function: Before production or when exchanging components, this prevents placement errors beforehand by inspecting the component capacitor sizes, resistance values, and polarities. Because six components can be checked simultaneously, this will contribute to the shortening of the time period when changing programs.

Ionizer: Neutralizes static electricity inside the mounter, and eliminates static electricity in circuit boards and components.

Energy Conservation

The electric power consumption has been greatly reduced (Approximately 25% reduction compared to previous machines).

* The KE-3020R model also incorporates a laser sensor in the IC head. This enables high-speed recognition of small-sized components using the IC head, allowing support for a wider range of components.

Board size	L size (410×360 mm)		○
	L-Wide size (510×360		○
	XL size (610×560 mm)		○
Component size	Laser recognition		0402 mm (01005 inch)～□33.5
	Vision recognition		1.0×0.5 mm～□74 mm or 50×150
Placement speed	Chip	Optimum	20,900 C P H
		IPC9850	17,100CPH
	IC		 5,800CPH *2
			2,200CPH
Placement accuracy	Laser recognition		±0.05mm（Cpk≧1）
	Vision recognition		±0.03mm（Cpk≧1）
Feeder inputs			Max.80 on 8 mmT/F
Board size	L size (410×360 mm)		○
	L-Wide size (510×360		○
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Feeder inputs	Max.80 on 8 mmT/F
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*1: L-Wide size is optional

*2: When using MNVC. (option)