

LOWEST COST  
OF OWNERSHIP



## FX-1R High-Speed Chip Shooter

Our modular production line for medium-volume throughput sets new standards for productivity, flexibility and reliability.



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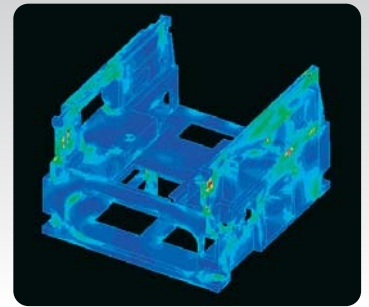
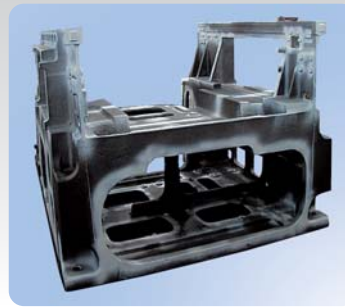
**JUKI**  
AUTOMATION SYSTEMS

# LOWEST COST OF OWNERSHIP

You are always a winner with JUKI assembly systems! Our modular product line can be matched to your exact requirements. This provides the optimum combination of productivity, flexibility and reliability with the Lowest Cost of Ownership.

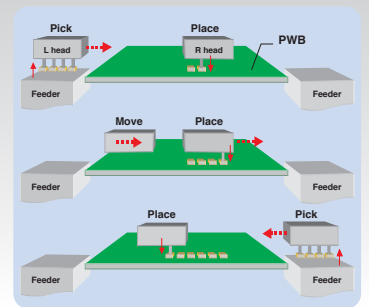
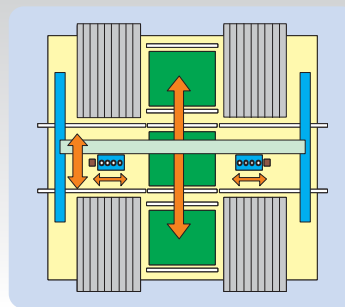
## High rigidity and low-vibration

The machine frame is formed from a single casting where special materials were selected to give vibration-free operation. This technology is unique to the SMT industry, it supports high speed and provides outstanding accuracy for the life of the system.



## Double head system driven by linear motors

The horizontal axes are driven by two independent linear motors that create both high-speed and precise positional accuracy. The innovative concept of the PCB table and two quadruple X/Y-axis placement heads give almost zero idle time. While one head is placing components, the other simultaneously picks. These innovations give a very high practical throughput, which is far more critical for productivity than any theoretical CPH value.



## Ease of operation

The operating software provides a clear and simple menu structure that quickly enables the operator to easily operate and program the system. Desktop icons facilitate rapid access to all relevant parameters and the touch panel provides further ease of use.



## Timesaving and flexible

The Feeders can be prepared and loaded to off-line trolleys while production is running. An innovative trolley design allows a complete changeover in less than 30 seconds. Our high precision single feeder concept offers maximum flexibility that results in a high efficient placement rate with minimum component loss.



## Reliable recognition of fiducial and bad marks

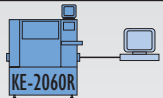
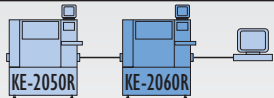
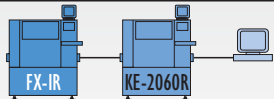
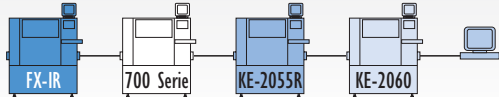
The enhanced lighting system ensures reliable recognition of fiducial and bad marks on standard PCBs, flex-circuits and ceramic substrates. The new system uses multiple lighting angles with programmable light intensity.





## Modular and Compatible

Our modular machine family is compatible with previous equipment generations. This makes it possible to set up the optimum production line for any given task. Current JUKI series machines can easily be integrated with our new platforms.

Placement Rate CHP		Application	Recommended Line Setup
Chip	Fine pitch		
12,500	3,300*	Flexible placement with a single module	
25,700	3,300*	Compact line for medium volume production	
37,500	3,300*	High-speed line for maximum throughput with Juki FX-IR	
Depending on the configuration	Depending on the configuration	Combination line with both new and older JUKI models	

\* with MNVC

## A leading supplier worldwide

Juki has now installed more than 12,000 placement systems worldwide, establishing us as one of the top SMT suppliers to the global market. All Juki products are designed to guarantee our customers the absolute lowest production cost (Lowest Cost of Ownership). With outstanding flexibility and high placement rate the new models will again define the new standard for midrange applications, perfectly suited for the western market.

## What we mean by Lowest Cost of Ownership

Often when deciding on the purchase of a new placement system, only the initial investment cost and the theoretical placement rate are considered. This overlooks many other factors that make up the overall production cost. Consumables, spare parts and service can be a big cost factor. Such things as changeover times, machine breakdowns and the difference between the theoretical and actual throughput rate significantly affect productivity. Maintenance, programming and operator training account for additional personnel costs. Thanks to their many years of experience building flexible modular placement systems Juki has gained an outstanding reputation. Data from the market has shown that compared to systems from other manufacturers, Juki clearly provides the highest reliability and lowest cost of ownership in the industry.

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