

IS basic software^{※1 ※2} / Basic software required to install IS.

Product name	Major functions
IS basic software	User definition / Facility definition / Component DB / Production program history management / Creating production programs / Line optimization <small>※Intelli PE is included in this software.</small>

◆Additional systems^{※2 ※3} / Software for expanded capabilities.

Product name	Major functions
Intelli PE system	Creating production programs / Line optimization
Intelli PD system	Download/upload production programs to production lines
Intelli PM system ^{※4}	Production scheduling for the entire floor / Monitoring of production status / Performance calculation

◆Intelli SCS^{※1 ※2 ※6} / Software required for installing Intelli SCS and Intelli EM.

Product name	Major functions
Software for Intelli SCS server	Parts verification / Component inventory control <small>※Intelli SCS is included in this software.</small>

◆Additional systems related to Intelli SCS^{※2 ※3 ※6} / Software for expanded capabilities.

Product name	Major functions
Intelli SCS system	Parts verification / Component inventory control
Intelli EM system ^{※5}	Management of feeder maintenance history

- ※1 To manage more than one floor or more than 200 mounters, you must buy a license for each server.
 ※2 Options are not included.
 ※3 When adding client PCs or when you use each function on more than one PC simultaneously, you must buy one license for each PC.
 ※4 Some functions require Intelli PD system.
 ※5 Software for Intelli SCS server is required.
 ※6 For availability, please contact one of our sales representatives.

Major options

Product name	Corresponding software	Remarks
Flexline CAD	Intelli PE	CAD conversion software
On-demand production ^{※1}	Intelli PD	Function to automatically change production programs according to barcodes on boards
Production banner	Intelli PM	Function to show production status on large display
Component banner ^{※1}	Intelli SCS	Display of low/empty component warnings in real time
Off-line setup function ^{※1}		Components verification in off-line setup
Traceability ^{※1}		Collection / search / display of traceability information
RFID stocker ^{※1}	Intelli EM	Feeder storage stocker with RFID recognition function
RFID feeder calibration jig with monitor ^{※1}		Feeder calibration jig with RFID recognition function

※1 For availability, please contact one of our sales representatives.

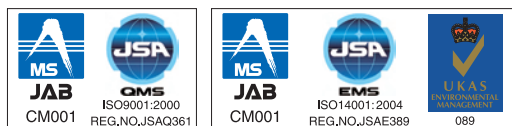
Compatible models

Series name	Corresponding models
KE series	KE-2010 ^{※1} / KE-2020 ^{※1} / KE-2030 ^{※1} / KE-2040 ^{※1} / KE-2050 / KE-2060 / KE-2050R / KE2055R / KE-2060R / KE-2070 / KE-2080 / KE-2080R ^{※3}
FX series	FX-1 ^{※2} / FX-1R ^{※3} / FX-3
CX series	CX-1 ^{※2}
KD series (Dispenser)	KD-2077 ^{※1}

- ※1 Intelli SCS is not supported.
 ※2 Intelli SCS is supported by custom order.
 ※3 For availability, please contact one of our sales representatives.

※Please refer to the product specifications for details.

To use OS of the IS server and Intelli SCS server, Windows Server 2003, you must have Client Access License (CAL), an access right to access the server from devices such as PCs and/or mobile devices as well as the right to use the server. Windows is a registered trademark of Microsoft Corporation in the United States and other countries.



JUKI CORPORATION
 Electronic Assembly & Test Systems Div.
 Design, development, production management, installation and servicing of the Surface Mount Equipment.

JUKI CORPORATION HEAD OFFICE
 Juki Corporation operates an environmental management system to promote and conduct the following as the company engages in the research, development, design, sales, distribution, and maintenance of industrial sewing machines, household sewing machines, industrial robots, etc., and in the provision of sales and maintenance services for data entry systems:
 (1) The development of products and engineering processes that are safe to the environment.
 (2) Green procurement and green purchasing.
 (3) Energy conservation (reduction in carbon-dioxide emissions).
 (4) Resource saving (reduction of papers purchased, etc.).
 (5) Reduction and recycling of waste.
 (6) Improvement of logistics efficiency (modal shift and improvement of packaging, packing, etc.).



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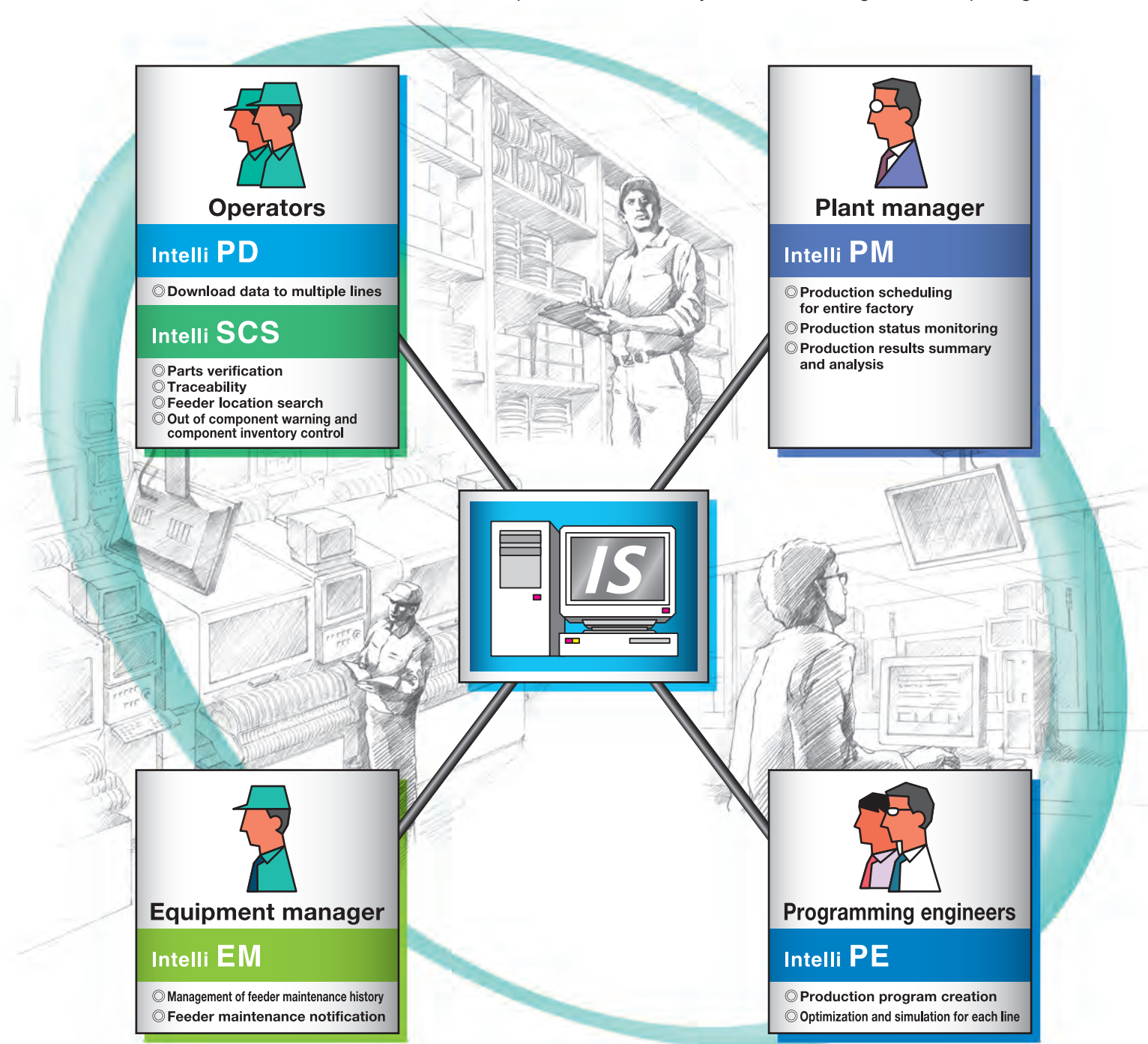
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Floor productivity improvement support system



IS Intelligent Shop Floor Solutions Software

IS raises production preparation, scheduling, quality and monitoring to a new level by bringing together several related functions into one comprehensive software package. IS gives managers, supervisors, and engineers the tools they need to run the most efficient production possible, thus reducing cost and improving productivity. Various tools allow workers at different levels to perform the tasks they need within a single software package.



Floor productivity improvement support system

IS

Intelligent Shopfloor Solutions

System overview

IS is comprised of five software functions within a single application. A client-server architecture connects the IS server to clients throughout the factory via Ethernet for factory wide control.

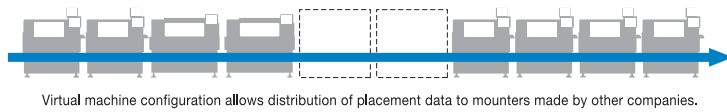
Consolidated management of information	Sharing information stored in the server. Prevention of defects caused by inaccurate communication.
Security	User registration allows operation privileges to be specified for each user group.
Versatile data format	Production files are saved in an open XML format for easy editing. Data can be transferred easily to other applications.

Intelli PE

Program Editor

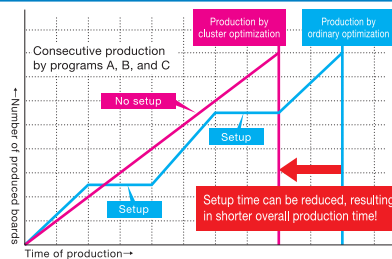
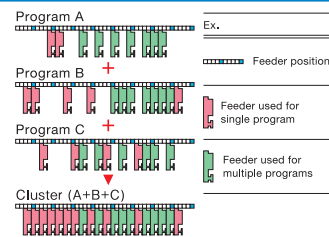
- Create production programs
- Line optimization
- CAD conversion (optional)

Intelli PE is used to create and optimize individual production programs. It is also possible to include "virtual machines" in the line to simulate machines from other manufacturers.



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

Option

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.

Intelli PD

Program Downloader

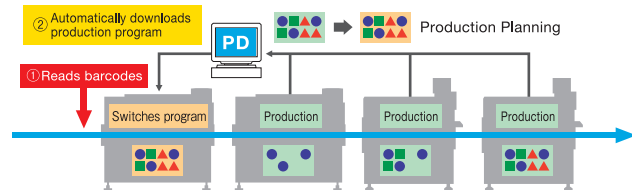
- Download production programs to multiple lines
- Line monitoring
- On-demand production (optional)

Intelli PD downloads production programs made in Intelli PE to the production lines and uploads changes made at the machines. It can control multiple lines simultaneously and monitor the production status of each line.

On-demand production

Option

On-demand production enables the production line to automatically change between jobs by reading a barcode on the PCB prior to starting production. Production files are optimized into a single feeder setup. (All PCBs must be the same size.)



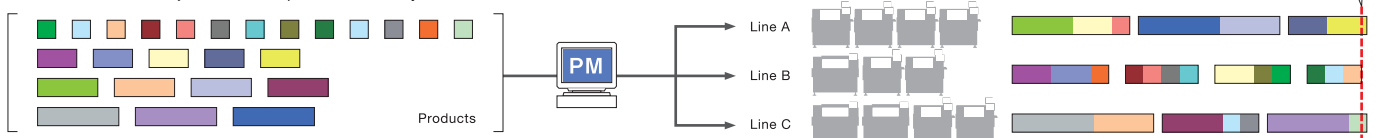
Intelli PM

Production Manager

- Improve the operating rate of the entire floor
- Factory status display
- Performance calculation

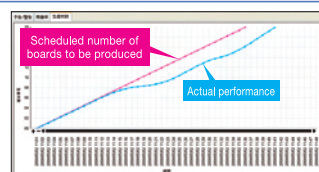
Intelli PM automatically makes a production schedule for the entire floor. The schedule is based on the production requirements vs. capabilities of each line on the floor as well as changeover. It is possible to specify various conditions such as due date for the job and component delivery dates.

Simulates line balance and estimated end time for optimal scheduling.



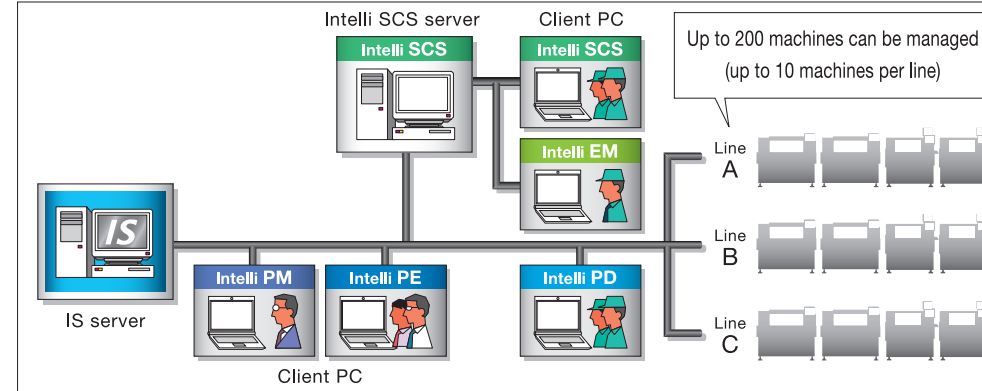
Production monitoring

Line status and real time production results can be monitored from any client PC. Problems can be identified and solved quickly.



Performance calculation

Production results are calculated and summarized graphically in pie or Gantt charts.



Easy operation

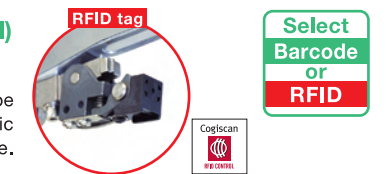
- **User interface**
Graphical operation screens that are standardized across applications.
- **Real-time language switching**
Interface language can be switched to English, Japanese, or Chinese from any screen.

Intelli SCS

Setup Control System

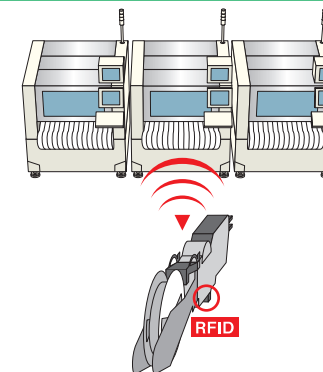
- Parts verification
- Component inventory control
- Verified off-line setup (optional)
- Traceability (optional)
- Component banner (optional)

The system uses 1D or 2D barcodes for quality control and improving setup time. Incorrect placement of feeders can be prevented and traceability of component codes to each PCB is available. The system works either in a semi-automatic barcode method or a fully automatic system using RFID tags attached to feeders and readers on the machine.



Parts verification

The parts verification function confirms that the correct part has been placed in the correct location on the feeder bank. An interlock prevents production until the parts are properly verified, thereby preventing defective boards from being assembled.



With RFID System

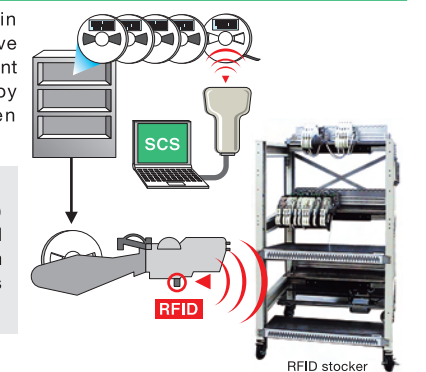
The location of every feeder is automatically detected when the feeder is placed on the machine. It helps the operator's efficiency and provides a double check of the location.

Component inventory control · Feeder location search

Components can be stored in registered locations to improve stock control and the component count is always maintained by the Intelli SCS system even during production.

With RFID System

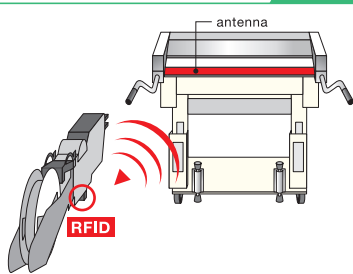
The RFID stoker (optional) shares the location for stored feeders with the entire system making it easier to find reels when you need them.



Off-line setup function

Option

Off-line setup using feeder trolleys enables verification of component locations and prevents human errors.



With RFID System

The location of every feeder is automatically detected when the feeder is placed on the feeder trolley. It helps the operator's efficiency and provides a double check of the location.

Traceability

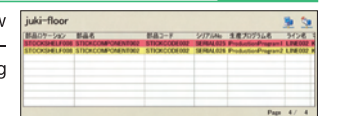
Option

The component lot numbers can be recorded during production and linked to the serial number of the PCB they are placed on for a complete and accurate traceability record.

Component banner

Option

Displays a list of components that are low or empty on a large display to give operators and stock personnel advanced warning and improve operating efficiency.



Intelli EM

Equipment Manager

- Management of feeder maintenance history etc.

Intelli EM records and manages feeder maintenance and inspection history. Maintenance schedules are created and warnings can be set based on actual usage including pick cycles, hours of operation, and mis-pick rate. Helps to decrease line stoppages and improves quality.

With RFID System

The RFID feeder calibration jig (optional) automatically recognizes and records feeder IDs and the date when the feeders are inspected, decreasing the work and increasing accuracy for maintenance personnel.

