

JaNets

Juki advanced Network system

Equipment operation management system

JaNets JT Simple

Getting started

The productivity
of your factory
can always
get better!



Contact JUKI to learn more about JaNets!

Website

https://www.juki.co.jp/industrial_e/products_e/others_e/software_e/detail.php?cd=JaNetsJTSimple_E



Catalog PDF

https://www.juki.co.jp/industrial_e/admin/pdata/filedata/351/janetsjtsimple.pdf





Sewing Machine Inspection Support System

守 破 離

JUKI-ShuHaRi



Make your daily maintenance job
a breeze with your smartphone



Registered Organization:
JUKI CORPORATION Head Office
The Scope of the Registration: The activities
of research, development, design, sales,
distribution, and maintenance services of
industrial sewing machines, household
sewing machines and industrial robots, etc.,
including sales and maintenance services of
data entry systems.

JUKI

JUKI CORPORATION
SEWING MACHINERY & SYSTEMS BUSINESS UNIT

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* Specifications and appearance are subject to change without prior notice for improvement.
* Read the instruction manual before putting the machine into service to ensure safety.
* This catalogue prints with environment-friendly soyink on recycle paper.
* Paper from responsible sources FSC™ C001712

SEPTEMBER, 2021 Printed in Japan(TN)

JUKI Smart Solutions
Innovation with our Best Global Support

The first step to increasing productivity is to know the status of your sewing factory now.

Factors that reduce factory productivity

1
Wasteful work*1!

Wasted transport distance

Wasted time waiting for work

2
Poor line balance*2!

Wasted time and effort looking for a fabric

3
Operator's skill unknown!

Production targets missed!

4
Finding machine failures takes time!

Targets

5
Manual data collection takes time!

Manual data collection takes time!

*1 Idle waiting time and irregular tasks (e.g., thread changing) that divert the operator from sewing, preparing, and handling materials.

*2 Operators working at different speeds. When your factory line is in good balance, your operators work at a uniform speed. When the balance is poor, a delay by one operator slows the next processes down the line.

With *JaNets* you can instantly find the parts of your factory you need to improve!

Operation rates are clear to see!

With JaNets, you can track operation metrics that you could only grasp with your senses before.

See sewing machine troubles instantly!

With JaNets, you can check which equipment has failed or caused irregular tasks, how often the failures and tasks have taken place, and for how long.

See processing times instantly!

With JaNets, you can check how much time an operator spends working on a garment.

See the progress of your line in real time!

With JaNets, you can check your production progress without spending man-hours.

See your output quantities!

With JaNets, you can check the target/actual output quantity of each piece of equipment.

Seeing your line status in real time

Improvement

Increased productivity!

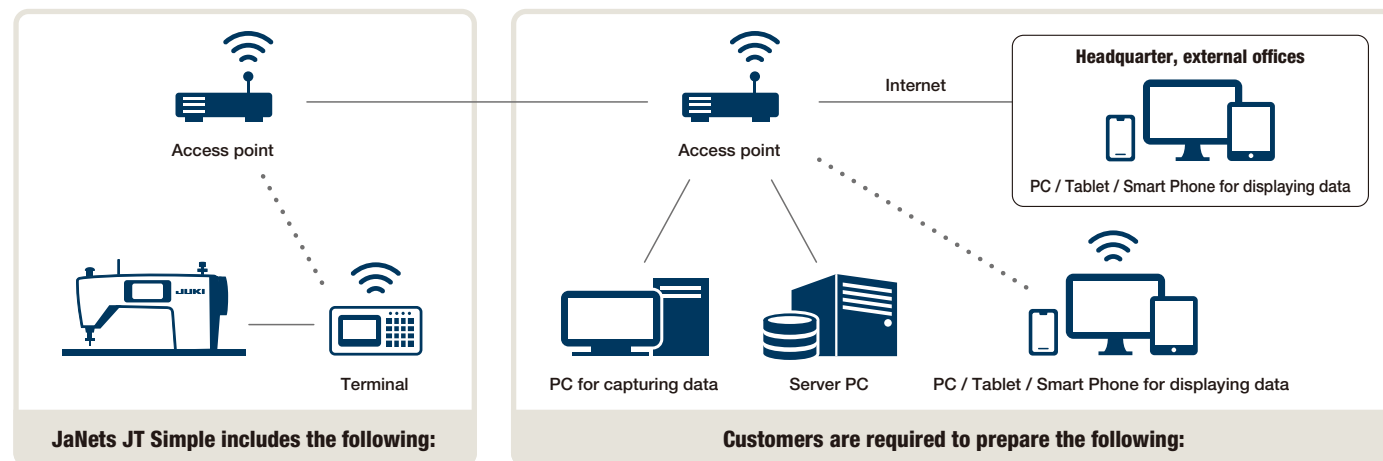
Other advantages JaNets provides

- Reduced waste
- Factory operators with enhanced awareness
- Enhanced responsiveness to labor shortages

Increase the productivity of your factory further!
Why not get started with JUKI?

JaNets JT Simple Ver.1.8

Configuration of JaNets JT Simple



JaNets

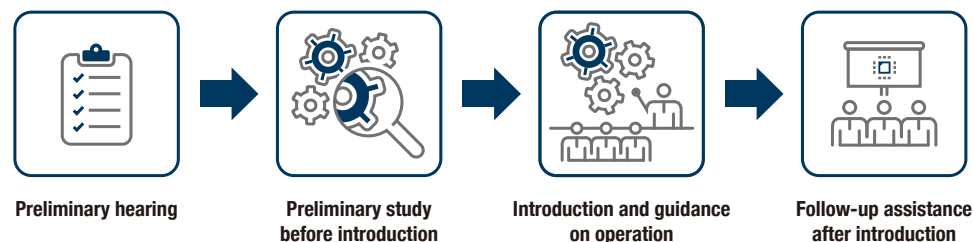
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ver. 1.8

JaNets JT Simple introduction process



Please use this free app for smartphones also



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Visualized and Connected, JUKI's IoT

JUKI Smart Solutions
Innovation with our Best Global Support

Ongoing work on the factory floor is visible, IoT leads to a bright future



JaNets

Juki advanced Network system

JaNets JT Simple

Visualization with the JaNets!

Accurate and real-time information on all of the sewing machines* in use becomes visible from remote places. * Including the sewing machines made by JUKI and other manufacturers

Operation rate

- By sewing machine (operator)
- By line
- In chronological order

Progress

- By sewing machine (operator)
- By line
- Goal attainment level

Troubles

- By sewing machine (operator)
- Off-standard (allowance) analysis

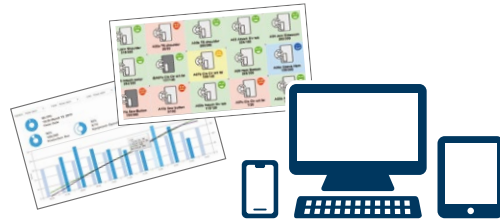
! In the case of a trouble, an alert or email is sent to the operator

Quantity of output

- By sewing machine (operator)
- By line
- In chronological order

Processing time

- By sewing machine (operator)



Connection with the JaNets!

The use of the JaNets leads to various improvements that contribute to increased productivity of each operator.

Increase in productivity!

Excessively advanced

Excessively delayed

Improvement of the line balance

Elimination of a labor shortage!

Reports in handwriting

Automatic totalization

3 to 4 hours

5 to 10 minutes

Reduction in the line-administrator's work

Waste reduction!

Operation rate **Low**

Off-standard items (allowance) **Many**

Improvement of non-operation rate of sewing machines (waste)

A reform in the mindset of the factory!

I am doing well today!

The operator is also able to grasp the progress of his/her work in real time

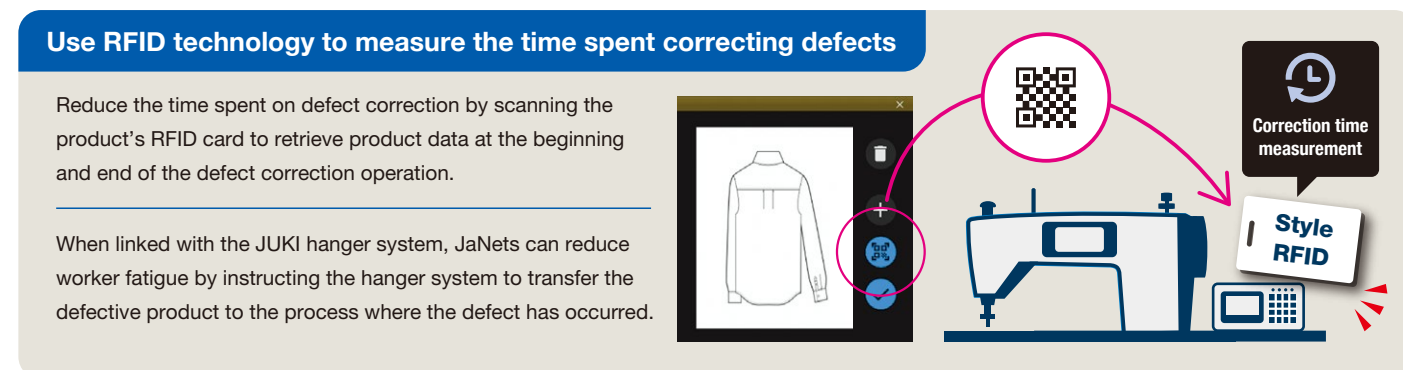
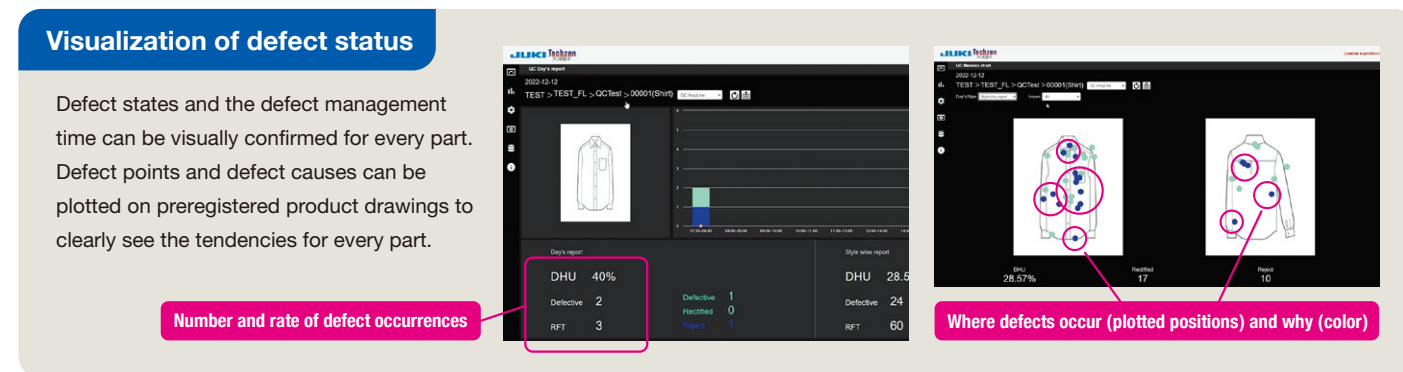
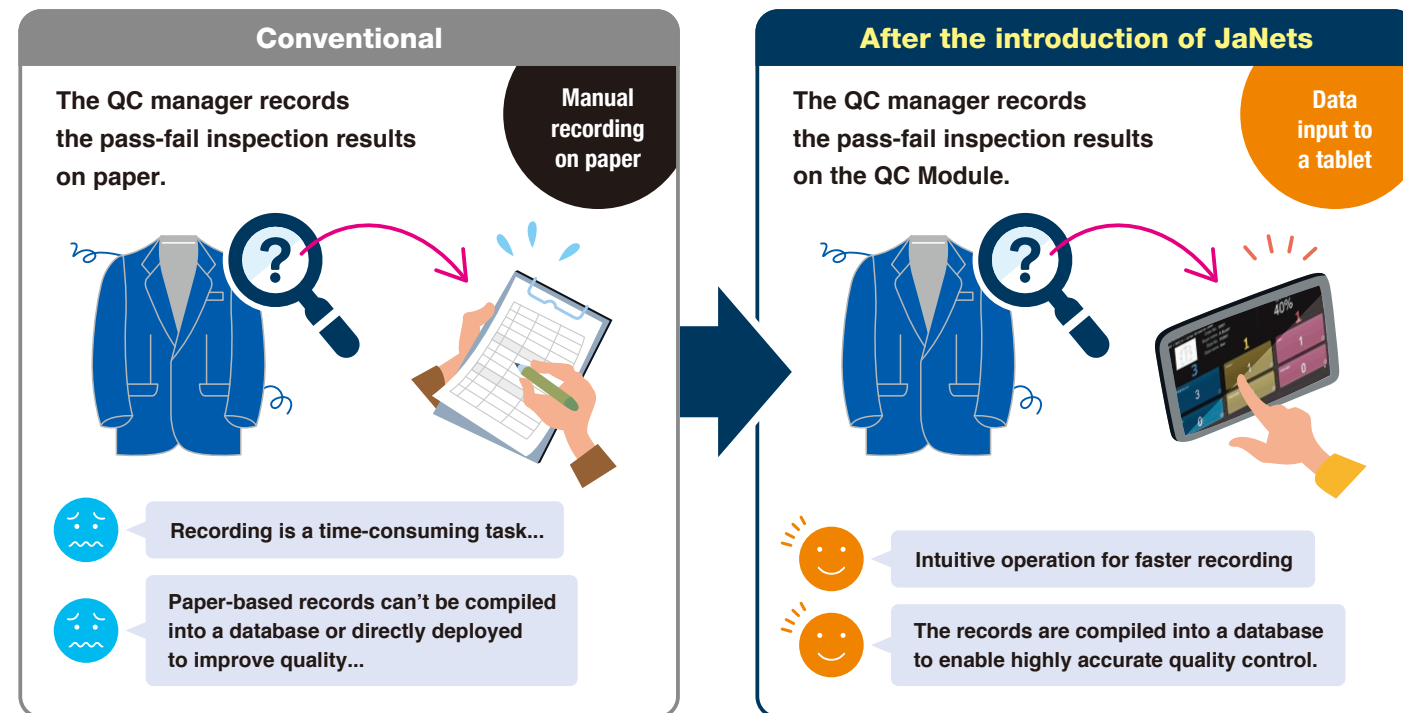
After-sale service such as diagnosis and improvement is provided by the experienced JUKI PE staff with an established reputation of improvement in many countries in the world.

Upgraded version!! New functions added to *JaNets*

New!

JaNets improves production quality! Complete with the new “QC Module” for quality control!

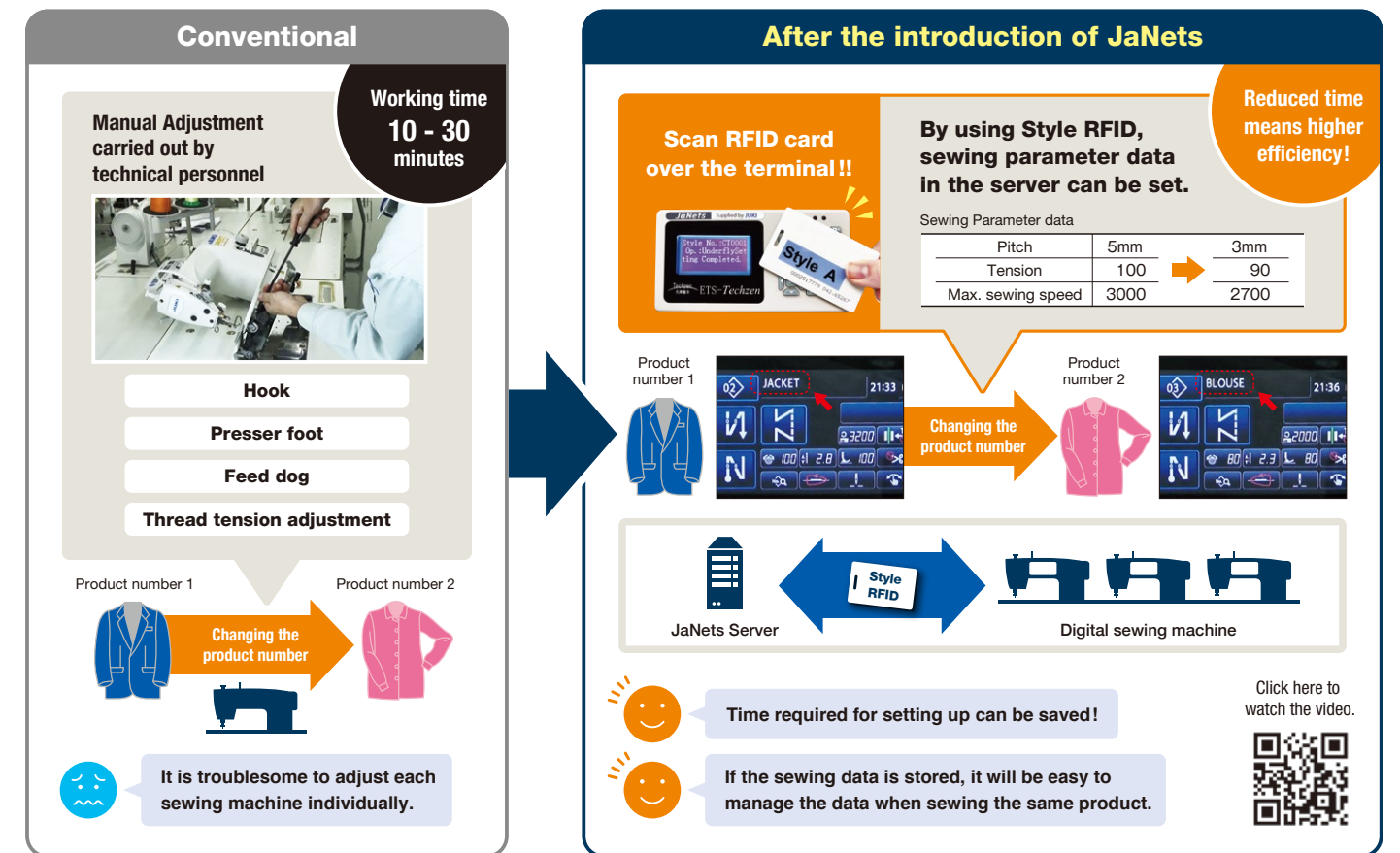
Achieve paperless quality control (QC) with help from a data analysis function for further quality improvement!



Efficiency is further improved!

Sewing Parameter data can be uploaded or downloaded using Style RFID card

Sewing settings can be shared between digital machines. Support high-mix, small-lot production!



Higher efficiency Example

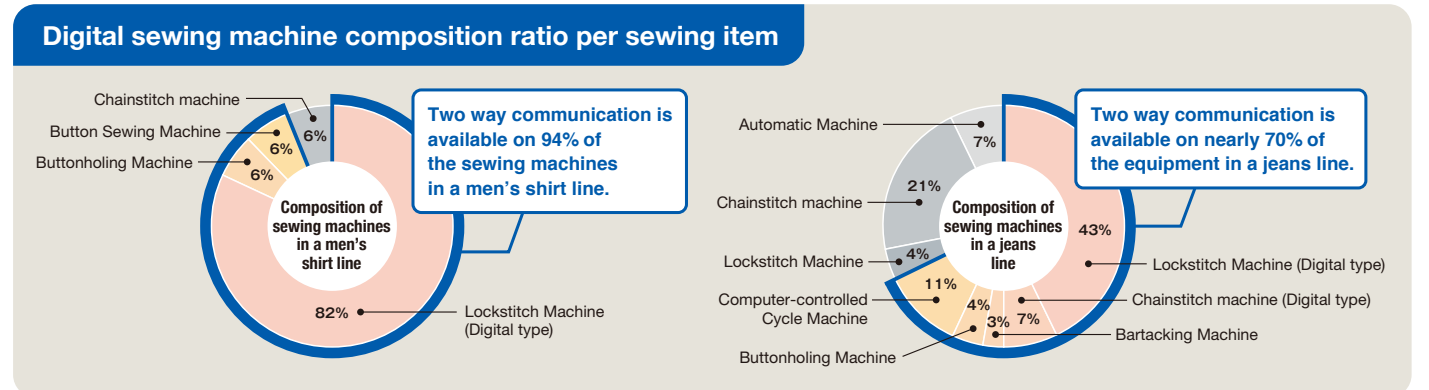
For the line that produces 500 men's shirts per day, 32 digital sewing machines are used per line.

The time required to change the product number can be reduced by **320 minutes per change!**

Higher efficiency Example

For the line that produces 500 men's shirts per day, 19 digital sewing machines are used per line.

The time required to change the product number can be reduced by **190 minutes per change!**



Lineup of JUKI digital sewing machines

Sewing settings can be shared using the JaNets functions to support JUKI digital sewing machines.

JaNets also connects to non-digital JUKI sewing machines and the sewing machines of other companies.

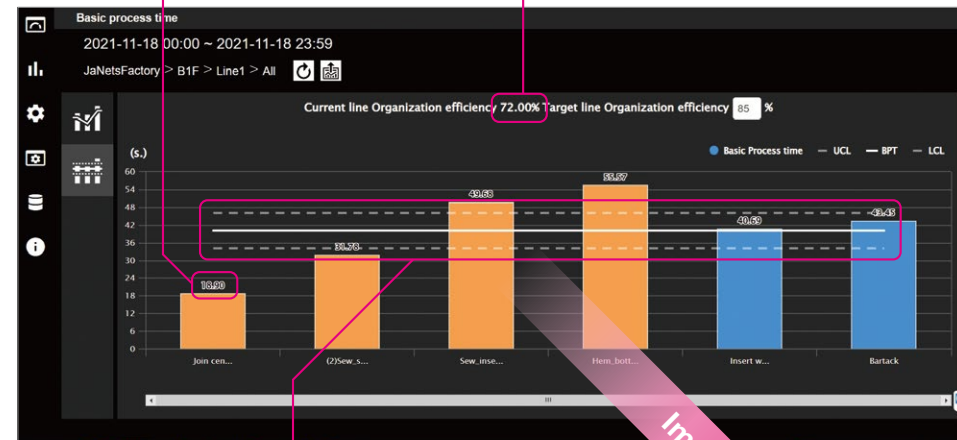


Line balance

What you can do with JaNets You can check variation of process time in each process on a line by line basis.

The Processing time for each process is displayed.

Line Balance efficiency of line can be automatic calculated using process time distribution.



The average processing time of the line is displayed by the solid line. Two dotted lines are also displayed to check if the production is running smoothly. The process time if falls within the range between the upper and lower limits is displayed in blue and that falls out of this range is displayed in orange. If many process falls in the range of blue, then line is stable with little variation. If there are many process displayed in orange, then line is not well-balanced and is likely to cause bottleneck and many wip in the line.

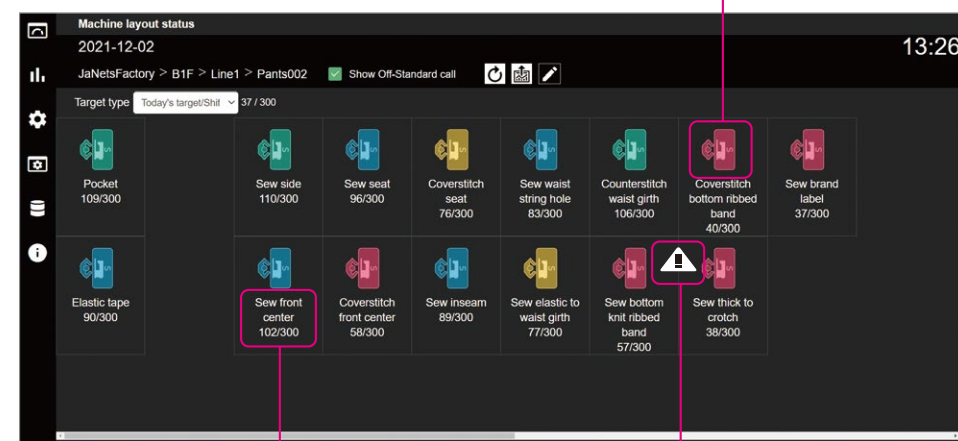


By reviewing proper process distribution for each operator, we can create a smooth production line.

Machine Layout status

What you can do with JaNets You can check the production progress of each sewing machine and whether or not any of the sewing machines has problems.

The color of the equipment icon allows you to see at a glance whether the production is progressing or lagging behind.



For each equipment, you can grasp the process name and the target/actual number of pieces of products produced.

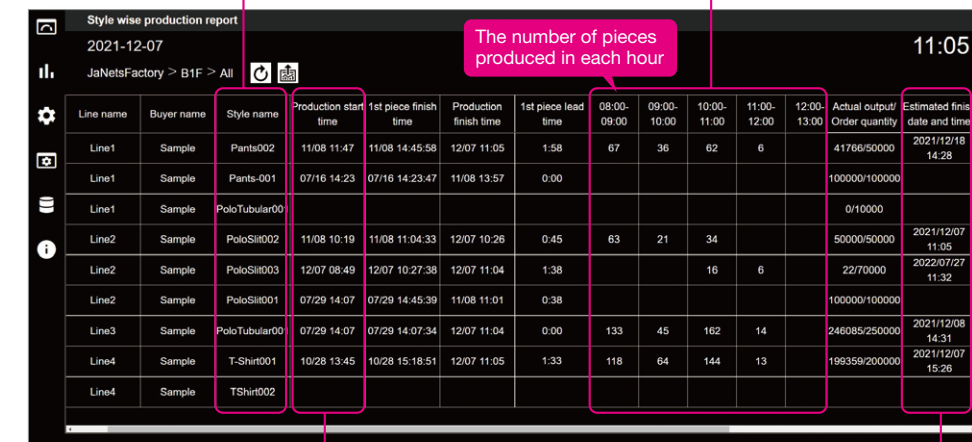
When trouble occurs, you can press the relevant button on the terminal to see notification for that machine.

Style wise production report

What you can do with JaNets You can check the production Quantity for each style and schedule-related information such as the start date and estimated completion date of the production.

The style information you have entered is displayed.

The number of pieces produced is displayed on an hour-by-hour basis.



The start time of the production of the style is displayed.

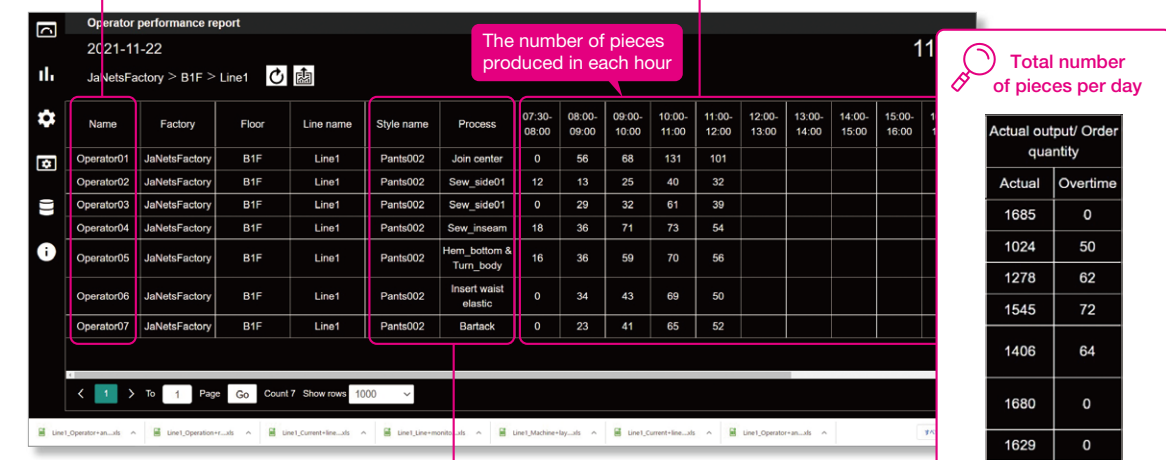
The estimated production completion date and time are automatically calculated and can be used to examine production plans.

Operator performance report

What you can do with JaNets You can check the history of the number of pieces produced by each operator on basis of style & process.

The name of the operator is displayed.

The number of pieces produced in each unit time and the total number of pieces produced in a day are displayed, it also allows you to check number of pieces produced by each operator on basis of style & process.



The style name and the process name are displayed so that we can understand which process was done by each operator.

Utilization of JaNets to check the number of parts produced!

Example for introduction of JaNets Sewing item: Shirts / Size of the factory: 2,000 workers / Country: India

30% increase in productivity

Immediately after the introduction of JaNets (visualization)

With JaNets, we were able to grasp the status of parts output and also can confirm the quantity of parts supplied to assembly.



After improvement

With JaNets, we leveraged parts sections that shows delay or excessive advance in production & to help them to produce equal quantity of parts. As a result, we can confirm that supply of parts to the assembly will be smoother, contributing to increased productivity.



Operation rate

Machine Operation rate

What you can do with JaNets You can check the ratio of equipment operation and trouble occurrence by line/equipment/unit time.

The bars indicates the operation rate is color-coded which allows us to check the percentage of sewing machines in operation or non operation, and percentage of each off standard occurrence.



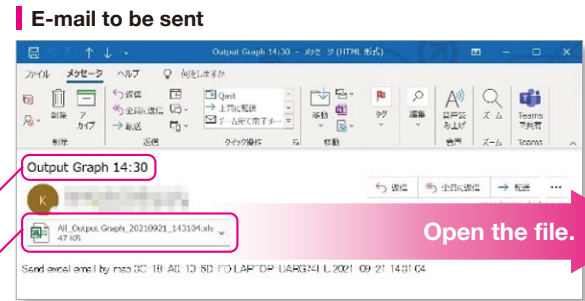
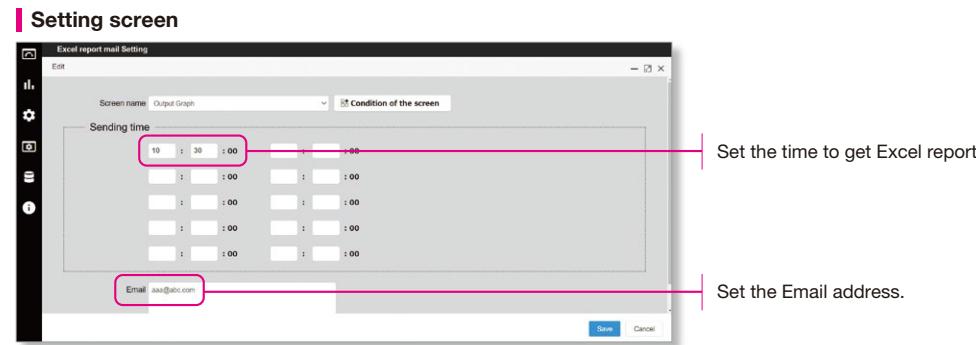
Using the four different icons, you can check the operation status you want to see for each line/equipment/unit time.

You can check duration of each off standard occurrence. This information can be used for improvement activities. You can achieve increased productivity by reducing the occurrence of off Standard.

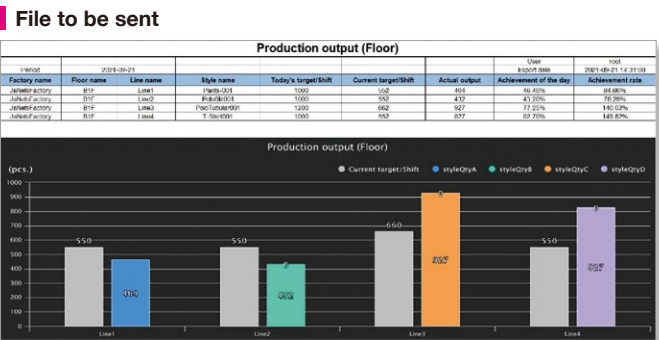
Information collection

Excel report mail Setting

What you can do with JaNets By entering Specific time and e-mail address, you can get an Excel report of any specified functions.



The Excel report of the selected function will be sent based on your set time.

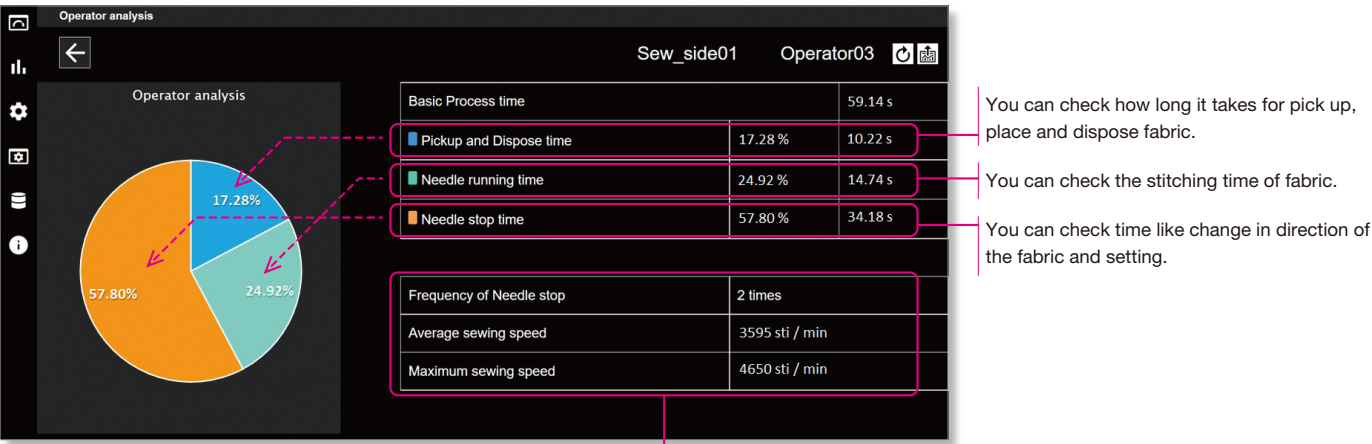


Since you can get the report at set time, we don't need to send report frequently and thus reduces extra man hours required for creating the report.

Operator training

Motion Analysis

What you can do with JaNets You can check operator's skill in detailed for each process time(time required for pick up, place, dispose ,handling the fabrics, needle operating time) and number of times needle stops.



You can check how long it takes for pick up, place and dispose fabric.

You can check the stitching time of fabric.

You can check time like change in direction of the fabric and setting.

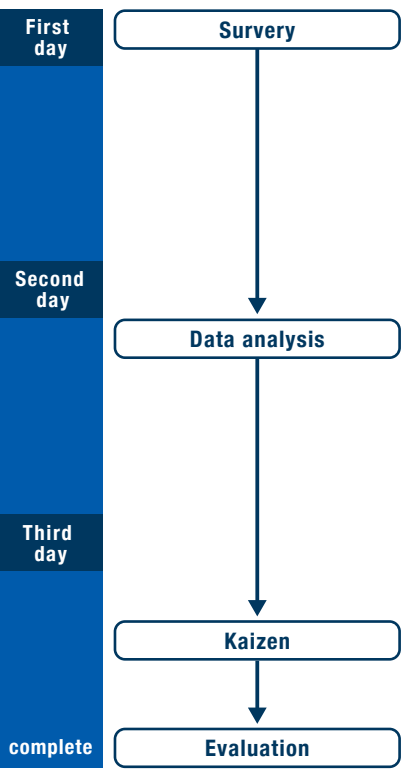
You can check the number of times needle stops and also check sewing speed, then, can confirm the status of operator's skill.

Improvement

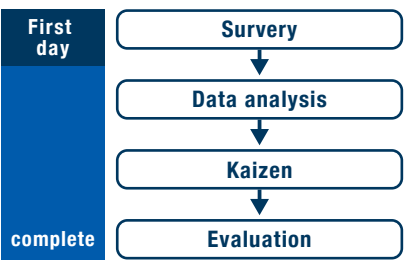
Example of introduction of JaNets To speed up the improvement cycle!
Sewing item: Pants / Size of the factory: 2,000 workers / Country: Viet Nam

Improvement speed tripled (3days→1day)

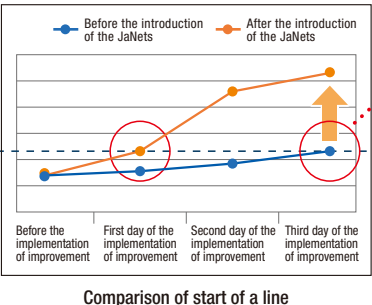
Previously
Approximately **three days** are required to carry out improvement



After the introduction of the JaNets
Improvement can be completed approximately within **one day!**



After improvement
Since the line status can be checked and points to be improved can be found on the report screen of the JaNets, it is possible to start improvement activities from the first day the JaNets is installed. As a result, the period of time required to confirm the effect of the improvement is reduced.



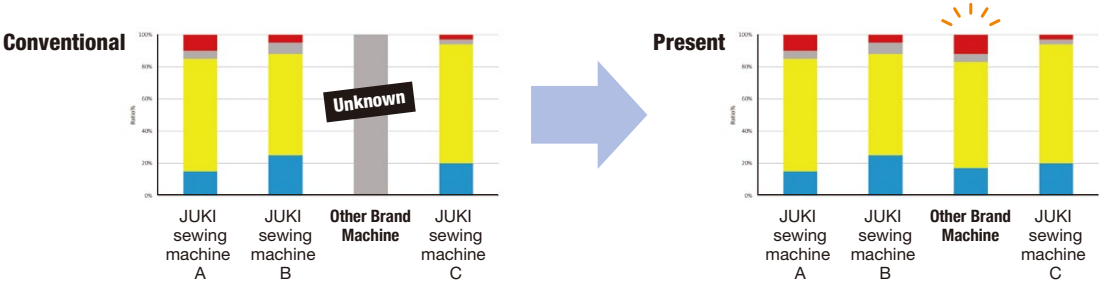
The effect of introduction of the JaNets can be confirmed from the first day of introduction. After the introduction of the JaNets, the production quantity of a certain production item on the first day of starting the production of that item reaches has been achieved on the third day of the production.

As a result, in the productivity comparison after 3 days, **25% increase in productivity**

Other features of the JaNets JT Simple

Information on the sewing machines of other manufacturers can also be acquired!
The JaNets enables collective management of all of the sewing machines in the factory.

By attaching the sensor, data can be acquired from sewing machines made by other companies and old JUKI sewing machines before 2010.



Information on troubles can be shared quickly
Operators are able to send information to administrators

The operator is allowed to provide information on troubles to administrators by e-mail using the terminal. Destination address of the e-mail can be selected from several ones such as a maintenance supervisor.

- The sewing machine model which has caused a trouble
- Description of the trouble
- Time of occurrence of the trouble, etc.



Operator



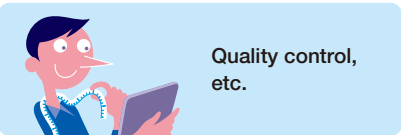
Confirmation can be made and instruction can be given from a remote location



Line foreman



Maintenance supervisor



Quality control, etc.

Option

Data linkage The JaNets can be connected to the customer's basic system
It is possible to use the data earned by JaNets in customer's own system (ERP).



Security is provided after the introduction of the JaNets!
JUKI's unique after-sale service to provide continued support for improvement

JUKI support the JaNets system and train your factory personnel in charge

Remote training program

JUKI has the remote training programs on production management, maintenance, diagnosis, etc. for customers' personnel. Please contact JUKI for details.

- How to reduce work in progress?
- How to find bottleneck process in sewing line?
- How to reduce wastes in the factory?

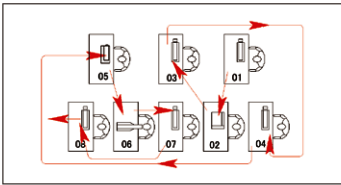
Personnel training through a web-based seminar!



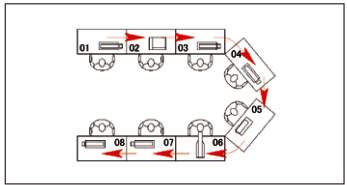
Site remediation support by a PE staff

Our PE staff firstly checks the production line in the customer's factory to find where the waste is. Then, the staff supports improvement activities of the customer.

Example1: Layout improvement

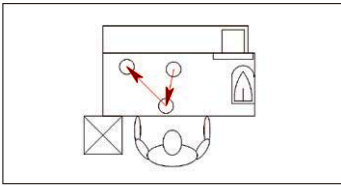


Before improvement:
The flow of goods (materials, etc.) is complicated.

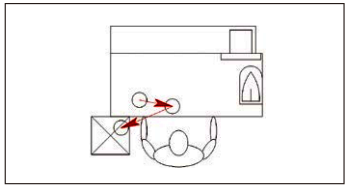


After improvement:
The flow of goods (materials, etc.) is simplified.

Example2: Improvement on placement of reserved goods (materials, etc.)



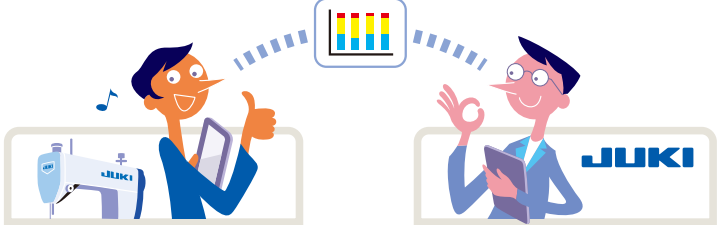
Before improvement:
The distance between the operator and reserved goods is long.



After improvement:
The distance between the operator and reserved goods is shortened.

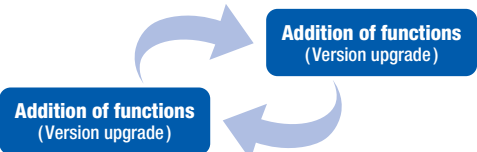
Remote follow-up service

JUKI provides follow-up service in the case of a trouble to remotely check the customer's system.



Provision of the latest software that responds to the customer's needs

The JaNets is an evolving machine operation management system. Newly developed functions are periodically added to give new added value to the JaNets installed in the customer's factory.



JaNets JT Simple utilization cycle

