

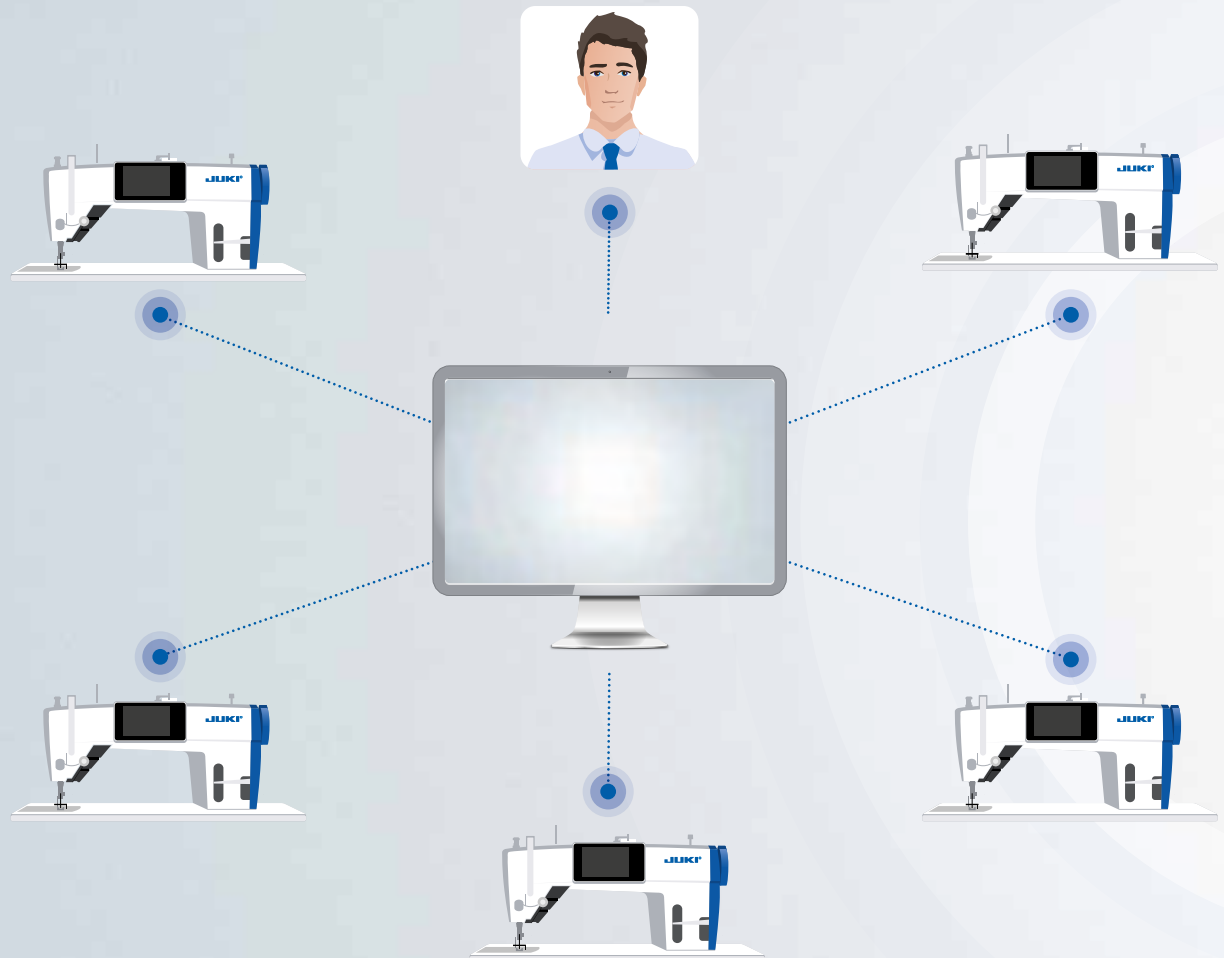
The image features a white JUKI sewing machine with a purple accent on the right side. A tablet is mounted on the machine's table, displaying a data screen with the following information:

MAY 12 2013	
Line	00000
Lot	00000
Part	00000
Time	00:00
Even 2:45 PM	
Operator	00000
Machine	00000
Model	00000
Speed	0000
Count	0000
Network Settings	

The background is a light blue gradient with a network diagram of dashed lines connecting various icons: a sewing machine, a clipboard, an eye with a waveform, a laptop, a person icon, a padlock, a cloud with an upload arrow, a shield with a Wi-Fi symbol, a checklist, a gear, a smartphone, a t-shirt, a computer monitor, and a robotic arm. The JUKI logo is visible on the machine and the table.

JaNets

Juki advanced Network system



JaNets is a Shop floor Control System That Allows You to Monitor All Aspects of Your Production Leading To Substantial Increases in Overall Efficiency



JaNets

Juki advanced Network system

With industry 4.0 on everyone's mind and an ever-increasing demand for the digitalization of sewing production lines comes the latest innovation from Juki – JaNets: Juki Advance Network System. This software system in combination with complementary hardware allows for unrivaled real-time tracking and monitoring of a production process.

Sewing machines in a line or shop floor can be interlinked to provide data on all aspects of the production. With this data a factory can see where its production is being held up, highlight operators underperforming, target machines with reoccurring issues - with the goal of improving the overall effectiveness. If a factory can see exactly how they operate from start to finished and have a clear view of their short comings it allows for process improvements and data based decision making.

With JaNets you can meet the challenges of reducing cycle times, increasing productivity and delivering greater quality at a lower cost. Improving the effectiveness of your production you can elevate beyond your competition.

DIGITAL MACHINES

One of the key advantages of JaNets is when it is used in combination with Juki's digital sewing machines. These two new technologies in tandem allow for faster and more accurate updates as well as more detailed analytics of a production.

JaNets can be integrated into Juki's machines allowing it to capture all the data that is registered by the machine, including error codes and detailed sewing data. This level of detail gives management an even better picture of the machine and operators performance. Reoccurring errors can be indicated to engineering to remedy what might be a larger issue. Similarly, if some parameter of the machine is causing knock on effects these can be pulled from the data i.e. higher rate of needle breakages can be correlated to a certain sewing speed. Data pertaining to Juki digital machine parameters can be uploaded or checked via JaNets. This will drastically reduce set up times while also ensuring that all machines are prepared correctly for each bundle. The operator only needs to scan the RFID tag for the terminal to automatically update the machine parameters pre-approved for the bundle.

Engineering do not even need to step onto the factory floor for this as the parameters can be set up at the design or prototyping stage.



ADVANTAGES AND RETURN ON INVESTMENT

Typical Return*
on Investment is

12-24
months

*medium sized factory

Quantifiable Advantages

- Increased operator sewing efficiency
- Improve line balancing and operator utilization
- Improve quality
- Reduce direct labor costs
- Reduce indirect labor costs
- Reduce excess labor costs
- Reduce the cost of gross payroll calculation
- Reduce bundle handling costs

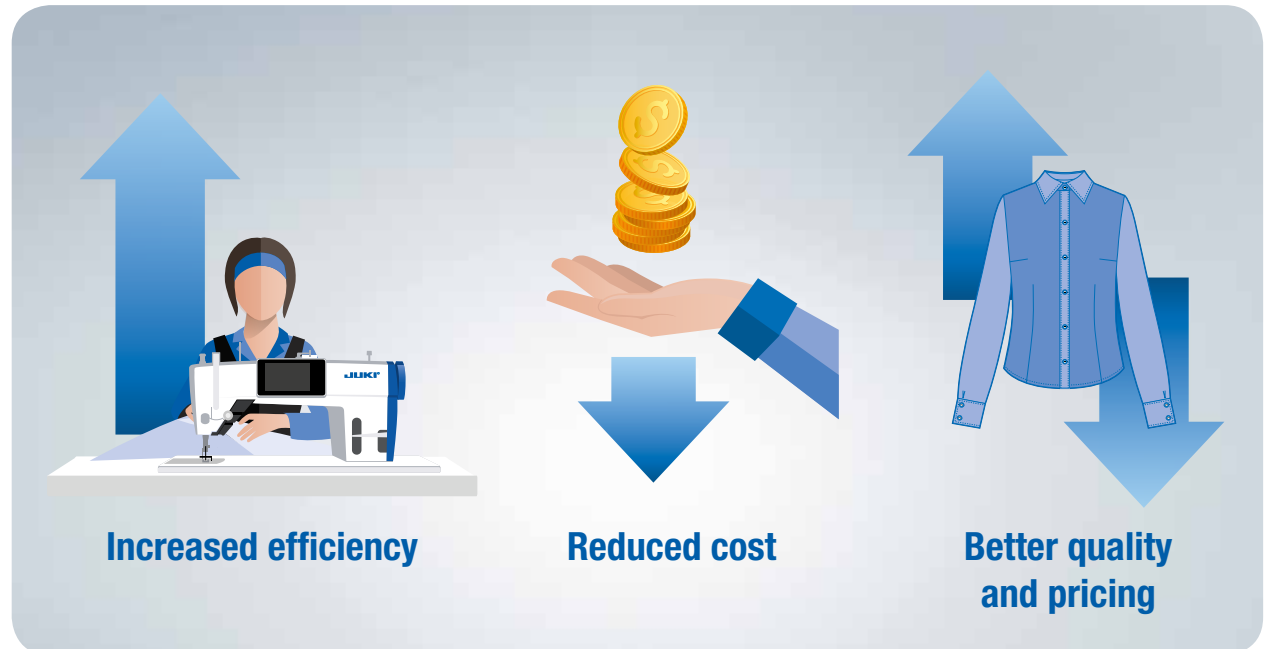
Qualitative Advantages

- Eliminate lost time at time-clocks
- Improved managers
- Improved customer relations
- Better pricing
- Better quality
- Improved employee morale

Return on investment

As JaNets works to improve a factories over all efficiency the return of your investment can happen extremely fast. Excluding the functional benefits listed above JaNets will reduce unproductive and wasted time meaning that a factory is continuously improving its output for a lower cost. JaNets is suited for many different production sizes and is not limited to large factories with many operators; the system is just as impactful in smaller factories where the most effective production process is needed to glean as much of an advantage as possible.

The typical return on investment for a medium sized factory that has implemented JaNets is just 12-24 months.



IMPLEMENTATION PROCESS AND REQUIREMENTS

Installation process



Requirements

We Supply:

- Software
- License
- Hardware: terminals

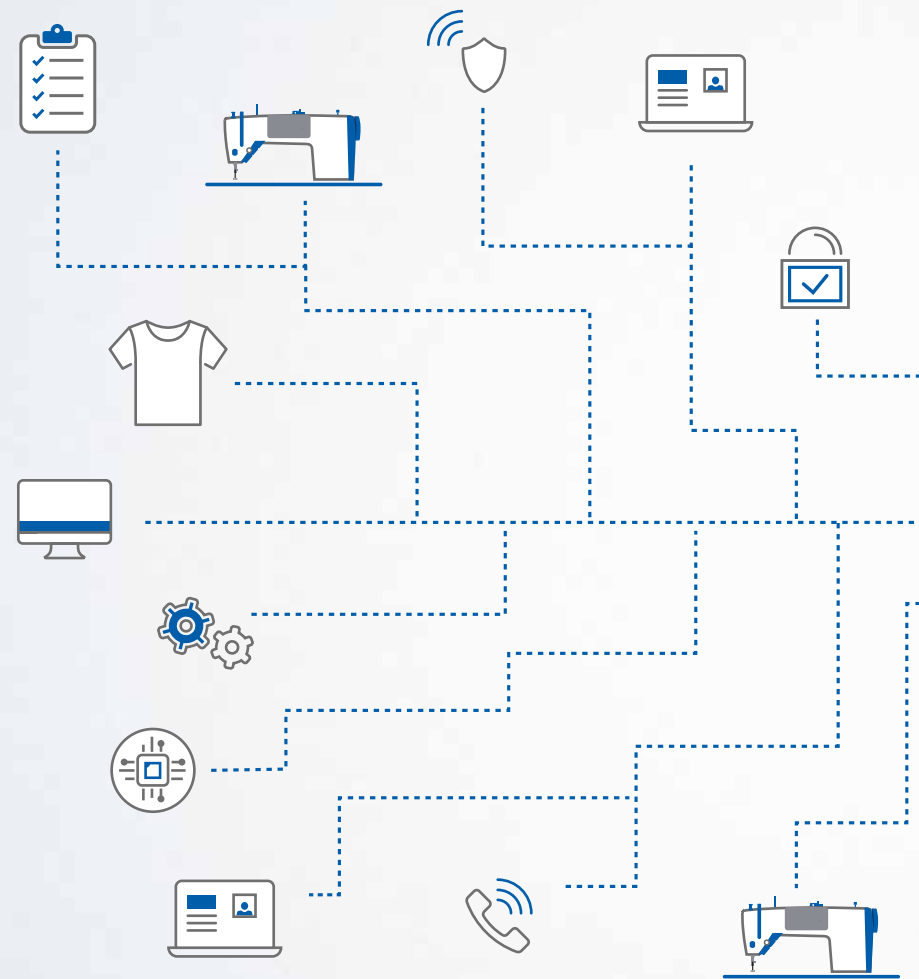
Additional Items required for the system to run:

- Server PC with Windows Server 2012 software
- Microsoft SQL Server 2012 database software
- Server Cabinet
- Wireless network (WiFi)
- LAN network
- LAN switchboard (12 ports)
- UPS for server + Data capture PC + Terminals
- Electricity / Power cable
- Electricity / Power cable set up labor cost
- LCD / LED big screen
- Outlet at each workstation (to power system 4.0 terminals)



JaNets

Juki advanced Network system



JaNets has been developed by CSG in cooperation with JUKI. The system is based on the BlueCherry Shopfloor Control System