

# Seiki NMS

SEIKI  
SYSTEMS

## Seiki NMS | Shop Floor Communications Software

Managing the critical link between production efficiency and profitability is essential to remaining competitive. The pressure to keep costs low whilst maintaining the high standards demanded by industry and customers is growing, emphasising the need to deliver value to the customer by eliminating waste through the entire manufacturing process.

### Introducing Seiki NMS...

Seiki NMS is designed for companies looking to maximise productivity and get the most from lean initiatives by utilising a complete shop floor system to electronically distribute and collect manufacturing process data.



Seiki NMS comprises of both manufacturing and business intelligence software, which at the shop floor level includes the display of work queues and job data collection, machine monitoring, technical data distribution, DNC and probe data collection. The top office analytical suite offers a remote display of machine status, machine performance analysis and individual job reports, key business tools that are necessary for effective work management and to achieve maximum utilisation of critical production resources.

### The Features

- Fast and efficient shop floor communications
- Full audit trail of file transfers
- Simple and accurate automatic and/or manual data collection
- Factory wide distribution of work queues
- Work in progress tracking
- Remote live views of individual machine status and activity
- Live status and alert warnings 24/7
- Graphic display of machine utilisation and lost productivity trends

### Planning to Improve

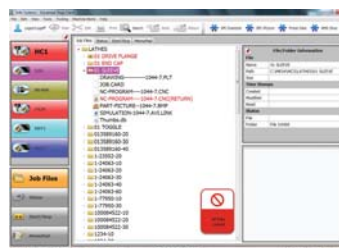
Becoming a more process focused organisation means manufacturing parts efficiently and cost effectively. IT solutions configured to collect data, disseminate information, increase visibility and automate everyday activities provide essential support in your efforts to operate a lean organisation, whilst creating a trusted factory knowledgebase where performance and quality can be achieved through control and continuity. Seiki NMS supports the effective distribution and flow of information throughout the manufacturing organisation, giving access to actionable performance data from the factory floor.

### The Benefits

- Creates a centralised factory knowledgebase
- Supports a lean systematic approach to the manufacturing process
- Eliminates inaccurate & time consuming manual methods
- Ensures only the latest manufacturing data is used
- Provides a dynamic, real time view of resource activities
- Supports continuous improvement strategies with real and accurate data
- Helps increase productivity and efficiency

### Fast and Efficient CNC Communications

Taking a lean approach to manufacturing means eliminating waste and reducing non-value adding activities for which fast, effective and simple shop floor communications are key. An integral component of Seiki NMS is our easily maintained shop floor communications and data management control system. NC programs can be filed on either the host PC or company server if networked, thus providing a more efficient method of working using fast and reliable file management that will ultimately help reduce errors. Manufacturing data is delivered directly to the shop floor where machine operators have access to the files stored on a remote server. Complete job information packs containing all the manufacturing data pertaining to an operation or component are available, with the additional flexibility of being able to view, edit and manipulate different file types, based on user access privileges. A graphical file status indicator provides confidence that all file transfers are controlled - the software is able to automatically restrict access to NC programs according to their status. This type of systematic control of manufacturing data can underpin your internal quality control procedures.



Centralised storage and display of manufacturing data



Remote live views of individual machine status and activity

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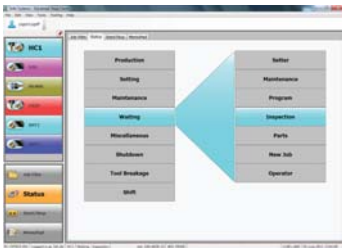
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## Real Time Visibility

Whilst traditional paper based methods can be used to collect and collate data they are often based upon historical data records and are likely to be inaccurate. Machine monitoring provides users with the ability to manually or automatically record the status of your manufacturing resources and reports on machine performance, both in real time and historically. Each operation status change can be derived automatically via digital signals received from the machine tool, providing continuous recording of production times, including the time and reasons for lost productivity, whilst operating conditions and status changes can also be manually entered on the shop floor. Used in conjunction with Seiki Factory View, which provides a dynamic, live view of the shop environment that is accessible from anywhere on the LAN/WAN, users have complete visibility of the production process, facilitating the control and flexibility required to focus on being responsive to customer demands.



Simple and accurate automatic and/or manual data collection supports continuous improvement

## Closing the Data Loop

Seiki Work Queue Manager software is an advanced API that enables scheduled works orders to be displayed directly on the shop floor for each workplace resource, providing forward visibility of the planned workload. The work queues can also be compiled into a single list for distribution around the site in order to co-ordinate supportive activities to the same set of priorities and deadlines. Work queues can be integrated to the SFDC facility, where applicable, to support work in progress tracking. Data entry is supported both manually and via barcode to collect data about each operation, including Job Start/Pause/Finish, Good/Scrap part counts, as well as calculating the duration of each operation, thus providing an understanding of actual performance and downtime reasons that will enable you to address critical areas and reduce levels of waste. The system can also be configured to provide direct updates to your scheduling system, creating a closed data loop.

## The Seiki Solution

Seiki NMS comprises of all the core Seiki Systems manufacturing software solution packages, including:-

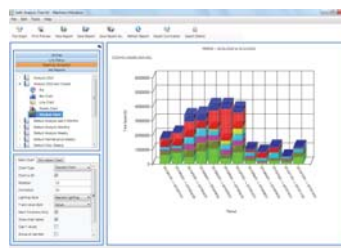
- Seiki DNC
- Seiki Jobpack
- Seiki Monitoring
- Seiki SFDC

Each of these packages are available separately or combined as the Seiki NMS system. The modularity of Seiki software provides manufacturers with a flexible solution and progressive upgrade path. Furthermore the Seiki solution is scalable. One of the key advantages is the ability to address your most critical areas first with the option to expand the system as your business grows.

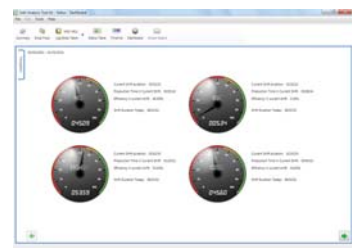
The desire for an increased level of process control and visibility is not just limited to larger organisations running thousands of operations. There are tangible benefits to be gained from adopting these technologies, which can really support business growth, in every manufacturing organisation. Our aim is to work with you to secure your return on investment and support your business as it grows. We offer a complete service including planning, installation, implementation, customisation, training and after sales support.

## Manufacturing Intelligence

Seiki analysis software acts upon the central data repository, providing an easy method of accessing, viewing and summarising the manufacturing performance data, generating reports comprising of relevant management information based on real time data collection, which can then be used to inform strategies to optimise machine uptime, throughput and ROI. Identifying the reasons for lost productivity can help to reduce costs and improve manufacturing efficiency.



Machine utilisation and lost productivity trends



A productivity dashboard forms part of the Seiki Analysis Toolkit

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Seiki Systems' suite of manufacturing execution software can be utilised for planning, controlling and improving the works order lifecycle - from top floor to shop floor - of any manufacturing company. Visibility and control of all stages of the manufacturing process is essential. Creating a leaner systematic approach can result in significant capacity and efficiency improvements that can lead to real cost reductions.