



## Seiki Productivity Suite

Seiki Systems Productivity Suite is an integrated package of modular software that can be utilized for planning, controlling and improving the output of any manufacturing company that uses CNC machine tools and manual processes.

All the individual modules within the Seiki portfolio are available as stand alone solutions or are offered as an integral part of the Seiki Productivity Suite. The total solution includes ERP, finite capacity scheduling, robust shop floor communications and paperless manufacturing, real time status visibility and control, and performance analysis. Furthermore, in order to ensure your project is on time and to budget, Seiki provides a complete service, including planning, installation, implementation, customisation, training and after sales support. Our aim is to work with you to secure your R.O.I and to continue to support your business as it grows.



### What is the Seiki Productivity Suite?

Seiki Systems' Productivity Suite is a portfolio of modular products that integrates the entire manufacturing enterprise and provides an immediate, visual and dynamic picture of the entire manufacturing process, providing the level of flexibility required to meet the ever changing demands of the industry and their customers.

- Reduce W.I.P, inventory & stock
- Predict delivery dates with confidence
- Reduce outsourcing by maximising the utilisation of existing resources
- Historical analysis from accurate, reliable data
- Supports continuous improvement strategies
- Highlight areas that will provide the greatest R.O.I
- Create a centralised factory knowledgebase
- A lean, systematic approach to the manufacturing process



Seiki Systems Ltd  
Olivier House  
18 Marine Parade  
Brighton  
BN2 1TL



T: +44 (0)1273 680411  
F: +44 (0)1273 602564  
E: sales@seikisystems.co.uk  
W: www.seikisystems.co.uk

### Complete Shop Floor Communications Solution

Seiki NMS (Networked Manufacturing System) is the ideal solution for companies looking to maximize productivity and get the most from lean initiatives by utilising a complete shop floor system to electronically distribute and collect machine and manufacturing process data for subsequent analysis and business improvement strategies. The system encompasses 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 and DNC. 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.

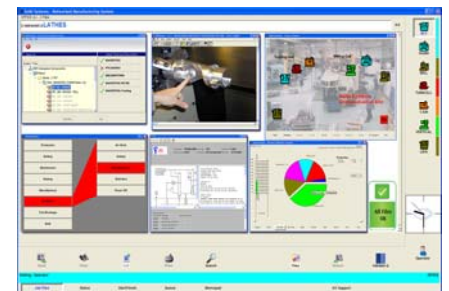
### CNC Communication and NC Data Management

Our robust DNC solutions support the delivery of essential manufacturing information direct to the operator at the point of use, with a view to increasing efficiency and productivity through centralised storage and display of manufacturing data. One of the advantages of a paperless manufacturing environment is that the latest manufacturing data is made available at

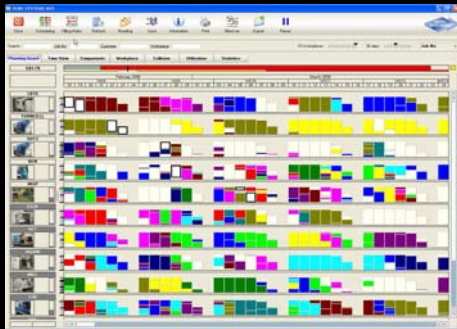
point of use by operators on the shop floor. Data such as NC programs, drawings, tool lists, operator instructions, NC simulation videos, etc. Supportive functions, like toolsetting, can see what's needed, where and when, to ensure everything is ready for start time. The system can also be configured to meet the requirements specified in individual quality standards by recording batch details and changes to NC programs, with audit and traceability records being automatically generated.

### Resource Monitoring and Data Collection

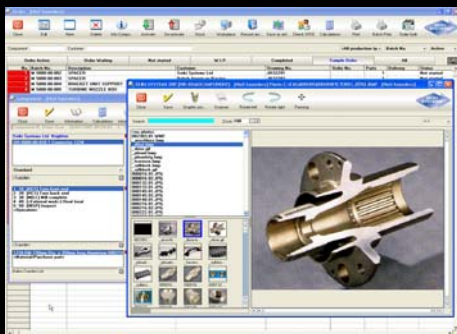
Seiki NMS supports the effective distribution and flow of information throughout the manufacturing organisation, giving access to actionable performance data from the shop floor. Whilst traditional paper based methods can be used to collect and collate data they are often based upon historical data records and are likely to be inaccurate.



Creating an immediate, visual and dynamic picture of the entire manufacturing process



Seiki Scheduler is a complete finite capacity planning solution designed to provide a high level of visibility and control of your manufacturing.



Seiki ERP integrates essential business processes into a single system that enables information to flow easily through the entire company.

Seiki NMS provides users with the ability to manually or automatically record the status of manufacturing resources and progress of works orders, both in real time and historically. With an increasing focus on the shop floor as an internal profit centre, the ability to interrogate accurate, actionable data direct from the shop floor can provide a significant advantage - creating a direct link between shop floor activities and top floor production driven business processes. Understanding the true cost to manufacture is essential to being able to cost accurately and consequently set profitable selling prices. Accurate data pertaining to the time spent undertaking different manufacturing activities, including non-productive time, can all be taken into consideration for recovering overhead costs.

**Performance Analysis**

Seiki analysis software acts upon a central data repository, providing an easy method of accessing, viewing and summarising manufacturing performance data, generating reports comprising of relevant management information. The system provides detailed historical analysis of the productivity of each resource, as well as live progress and times of operations for individual works orders. Giving internal stakeholders access to real time actionable data direct from the shop floor will enable them to make informed decisions and take action to resolve and prevent identified causes for issues that could be costing you money.

**Visibility and Control of the Works Order Lifecycle**

**Finite Capacity Production Planning**

Finite capacity planning is based on the real capacity of your facility and ensures corrective action can be taken to prevent late deliveries and operations are only scheduled when resources are available, reducing W.I.P. and avoiding bottlenecks in production.

**Enterprise Resource Planning**

Seiki ERP integrates essential business processes into a single system that enables information to flow easily throughout the entire company. It is in effect a quick start solution as users are able to start almost immediately with their added value activities.

The Seiki Scheduler maintains the appearance and functionality of a traditional planning board. It can interrogate any external data source such as ERP/MRP to establish the target planned completion dates and number of parts required for each works order, or this data can be entered manually. It schedules each works order according to scheduling rules, current work loads and available capacity and creates a synchronised work-to-list for each individual resource. Orders and operations can be easily viewed and re-scheduling can be achieved with simple drag-and-drop, displaying the total potential 'ripple' effects of any single change or multiple changes. The system displays resource utilisation together with available capacity and therefore knowing the exact status of all live works orders together with real capacity availability means the implications of unexpected delays or changes are easily visualised. This results in a predictive and proactive approach to the whole production process, ensuring that the priority delivery dates are optimised and met.

Data is held within a single database which provides users with access to a consistent set of core business records. The knowledge held within individual business units can be co-ordinated to produce an automated, visual representation of the actual situation, eliminating the problem of trying to synchronise figures across multiple systems. The software enables effective stock management, demand and process planning, J.I.T supply and delivery scheduling, documentation management and management reporting. Graphical representation of profit and loss areas, comparison of estimated vs actual costs and statistical analysis of the entire order process is instantly accessible as a result of the real time functionality of the system. Seiki ERP enhances management capabilities that enable manufacturers to maintain control over bills of materials and all other aspects of the procurement and assembly process. It also ensures complete records of materials to attain full traceability to meet customer requirements and traceability standards.

Seiki Systems Ltd  
 Olivier House  
 18 Marine Parade  
 Brighton  
 BN2 1TL



T: +44 (0)1273 680411  
 F: +44 (0)1273 602564  
 E: sales@seikisystems.co.uk  
 W: www.seikisystems.co.uk



Creating an immediate, visual and dynamic picture of the entire manufacturing process