

Integrated production control & manufacturing execution software

Seiki Systems has over 20 years experience in the development and provision of real time manufacturing execution and production control systems that provide an immediate, visual and dynamic picture of the 'plan to make' production process - your strategic and operational manufacturing management solution. We specialise in software that is designed to maximise the efficiency of production equipment and plant resources by addressing the complete works order lifecycle, from top floor to shop floor. The Seiki solution comprises of a suite of modular software including real-time scheduling, DNC and paperless manufacturing, SFDC and machine performance monitoring, W.I.P tracking, performance analysis and reporting and industrial touch screen PCs.



Seiki Productivity Suite

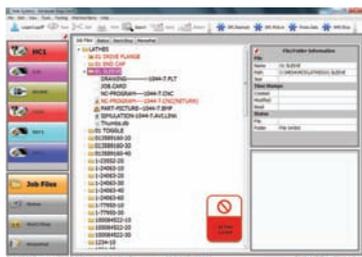
Seiki Productivity Suite is an integrated package of modular software that can be utilised for planning, controlling and improving the output of any manufacturing company that uses CNC machine tools and manual processes.

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.



Shop Floor Communications

Our complete shop floor communications solution is ideal for companies looking to maximize productivity and get the most from lean initiatives by utilising a 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.



Centralised storage and display of manufacturing data



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.

Just some of the solution benefits include:

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

There is an increasing awareness of the tangible benefits to be gained from adopting technologies that offer increased levels of process control and visibility, which can really support business growth throughout the manufacturing industry. Our aim is to work with you to secure your return on investment and support your business as it grows.



Resource Monitoring & Data Collection

Seiki's monitoring and data collection solutions enable 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. Seiki 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.



The modularity of Seiki software provides manufacturers with a flexible solution and progressive upgrade path. One of the key advantages is the ability to address your most critical areas first. 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.



Finite Capacity Planning & Scheduling

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.

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.



IP66 Touch Screen Industrial Computers

Seiki's touch screen industrial computers combine simple operation and excellent visualisation all in one. They are available in two screen sizes and are ideally suited for delivering your full screen applications to the shop floor, enabling the user to view production information directly on screen, whilst also supporting data collection tasks and DNC operations. The computers are IP66 rated which means they are protected from total dust ingress and protected from high pressure water jets from any direction. Seiki industrial PCs can be fully integrated into your existing IT environment, i.e. they don't require specialist IT infrastructure. Whilst we offer a range of optional mounting solutions, including wall mounts brackets, ceiling mount brackets and floor pole mounts the fixings are stand 75mm or 100mm VESA mount. This gives you the flexibility to source your own mounting solution if preferred.



For more information about any of our manufacturing software solutions contact us: **01273 666999** or email sales@seikisystems.co.uk

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