SEIKI SYSTEMS

Seiki Jobpack DNC

Seiki Systems has over 25 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 planning and scheduling, DNC, SFDC WIP tracking, machine monitoring, performance analysis reporting and industrial touch screen PCs.

Shop Floor Communications

Optimising production efficiency is key to remaining competitive in the current manufacturing environment. 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.

Seiki Systems Jobpack DNC system has been developed for users that require a higher level, easily maintained shop floor communications and NC data management control system. The software is installed on the server and on each networked PC (via any Windows compatible network). The shopfloor PCs access files or folders stored on the server which are configured in the standard Microsoft Explorer format under machine or part-rev related directory names for each machine tool connected. The system is typically installed on a hardwired RS232 or Ethernet infrastructure, however we are also able to offer a wireless solution, which eliminates the use of long cable runs and offers the flexibility to relocate machines as required.

Note: The system supports RS232, Ethernet and data server communications. Up to 8 CNCs can be supported by a single PC terminal
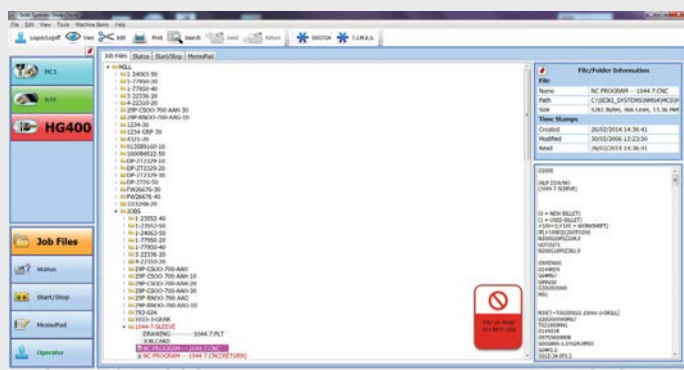

NC Data Management

Seiki Jobpack DNC delivers all manufacturing data directly to the shop floor and can be used by machine operators to navigate for files on a remote server, access all NC program files, and can be configured to meet requirements specified in quality or operating standards to ensure complete compliance. Additional functionality includes the viewing, editing and manipulation of files (based on user access privileges), graphical status verification and a comprehensive audit trail log.

The Jobpack Manager forms an integral part of this module. It provides an administrative tool kit for the management and control of NC Programs, including file status and approval, assignment of user access privileges and generation of traceability reports. This type of systematic control of manufacturing data can underpin your internal quality control procedures.

It includes the Seiki NC Editor which enables NC programs to be easily compiled/edited. The Editor simultaneously displays files to enable quick line by line comparisons to be made. Proven blocks of code can be easily transferred to create new NC programs and a library facility can also be used to store standard blocks of code for start up, tool changes, etc, ready for rapid input.

Seiki Jobpack DNC benefits include:

- Centralised data management
- Instant retrieval of complete job information packs
- A configurable password facility ensures data security
- Control of your manufacturing data and process
- Graphically warn and restrict access to unproven programs
- Easy upgrade path

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Manufacturing Control

Control is another key feature of Seiki Jobpack DNC. The system offers 8 levels of user access control (with password protection) for file viewing and editing (if permitted), graphical file status and control - warning of and restricting access to unproven programs, and edited NC Program transfer control - all programs in a job folder can be automatically placed on hold until the returned NC Program is approved.

File OK

All Files Locked

Caution Advised on THIS File
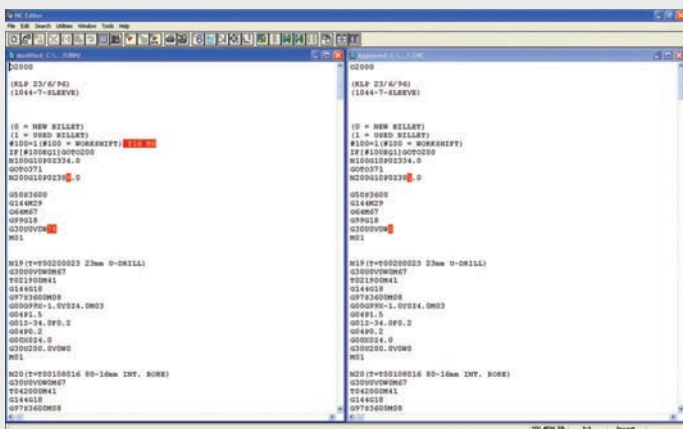
System Customisation

Customisation of all shop floor modules within Seiki NMS is available through the Seiki Batch Script (SBS) facility, a powerful programming tool that provides the ability to easily tailor the system to meet individual customer needs. This approach means that the core software remains unchanged and is easily supported and upgraded, leaving the customised element intact for the particular application only.

SBS can be used to sequence any system operation that can be activated via a configurable command line. It can be used to access and manipulate data with the system software. When used specifically with Seiki Jobpack DNC a customised script for accessing the CNC Editor can be compiled. This can include customisable prompts, such as 'who' and 'why', before the Editor is displayed and then 'what changed' after editing the file. The Editor changes will the only be retained if these prompts are completed and the 'prompt' replies can be automatically appended to a 'change log' text file.

Related Modules

When integrated with our other shop floor modules, the Seiki Jobpack DNC solution offers an enhanced level of manufacturing visibility and control.

Seiki Monitoring allows users to view and record all productive and non-productive events occurring on each resource. It enables users to quickly identify, evaluate and respond to important events whilst increasing equipment availability and reliability.

Seiki SFDC shows the current state of all work in progress, providing a view of your true capacity for planning and scheduling work throughput. The result is improvements in manufacturing processes such as the flow of work in progress (WIP), the quality of parts produced, minimising scrap and machine downtime, and the distribution/availability of information throughout your organisation.

Seiki Jobpack DNC features include:

- Full audit trail of file transfer
- 8 level user access control
- View, edit and manipulate NC files
- Multi port serial devices enable simultaneous requests from each CNC
- Each Jobpack DNC installation supports up to 255 machines
- Built in script facility for individual customisation
- Optional display of 'work-to-lists' for operators
- Links to other factory systems, including PLM, PDM, or other database management systems

Seiki Jobpack DNC is available as a stand alone solution or as an integral part of Seiki NMS. The modularity of Seiki software provides you with a flexible solution and progressive upgrade path. 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.

Seiki Jobpack DNC includes NC Editor software