

Seiki Jobpack

SEIKI
SYSTEMS

Seiki Jobpack | Shop Floor Communications Software

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.

CNC Communications and NC Data Management

Seiki Systems Jobpack system has been developed for users who 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.

Seiki Jobpack 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 unlimited file types (based on user access privileges), graphical status verification and a comprehensive audit trail log.

Jobpack Manager forms an integral part of the Jobpack solution. This office based software 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.

The Jobpack Manager toolkit also 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.

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

Introducing Seiki Jobpack...

Seiki Jobpack is a complete shop floor communications solution designed to facilitate controlled transfer of NC files. It is a robust and complete solution that offers reliable and efficient CNC communication across all CNC resources.

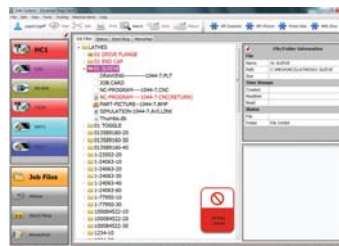


The Features

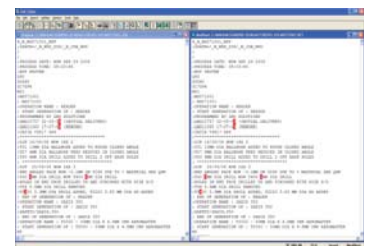
- Full audit trail of file transfer
- 8 level user access control
- View, edit and manipulate ASCII text files
- Multi port serial devices enable simultaneous requests from each CNC
- Each NDNC installation supports up to 255 machines
- Built in script facility for individual customisation
- Optional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

The Benefits

- 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



Centralised storage and display of manufacturing data



Compare, edit and manipulate NC program files

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Manufacturing Control

Control is another key feature of Seiki Networked 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.



Graphical file status verification

System Customisation

System customisation is available through the Seiki Batch Script (SBS) facility, a powerful yet simple 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 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 be retained if these prompts are completed and the 'prompt' replies can be automatically appended to a 'change log' text file.

Alternative DNC Solution

Seiki Direct DNC is an alternative solution for companies that require access to NC Programs without the need for any DNC terminals or PCs sited next to the machine tool. It uses the CNC screen to call programs to the machine tool and return edited programs. It comprises of a single or multiple host PCs configured with local or virtual serial ports sufficient to support the machines installed with the host. NC Programs are filed on the shop floor host PC platform (non-server OS), thus providing a more efficient method of working using fast and reliable file management that will ultimately help reduce errors.

The Seiki Solution

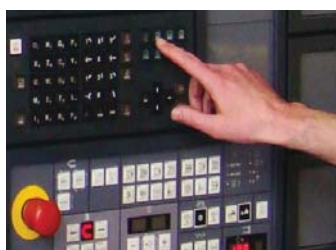
Seiki Jobpack is available as a stand alone solution or as an integral part of the Seiki Networked Manufacturing System (NMS). Seiki NMS also includes:-

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

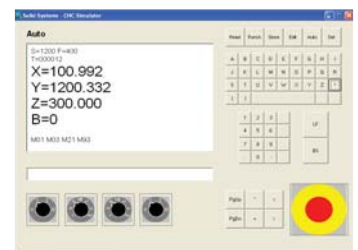
Each of these packages are also available separately. The modularity of Seiki software provides manufacturers with a flexible solution and progressive upgrade path. Furthermore the Seiki solution is scalable. One of the key advantages is the ability to address your most critical areas first with the 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.



Operators use the CNC screen to call programs



Fast, reliable and efficient NC program management

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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.