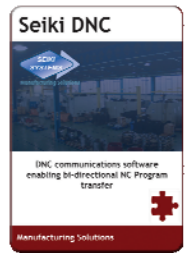




Seiki DNC

Seiki Systems has over 20 years experience in the development and provision of CNC communications and NC Program management software. Seiki DNC is a robust and complete solution that offers reliable and efficient CNC communication across all CNC resources.

Seiki DNC is available in two levels of software to ensure that we can provide a solution that is suitable for your requirements.



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.

Direct DNC

Seiki Systems Direct DNC system has been specifically developed to meet the requirements of CNC users who require access to NC Programs without the need for a dedicated DNC terminal or PC sited next to the machine tool.

Direct DNC is typically our lower cost solution due to the relatively small installation and hardware investment required. 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 system uses the CNC panel to call programs to the machine tool, return machine tool edited programs and transfer other files, e.g. sub-programs, tools offsets, etc. via RS232 communications. A log book automatically records the time and date of each transfer.

The Seiki Editor, which is included with the system, can be installed on the shop floor Host PC and enables NC Programs to be easily compiled/edited and quick line by line comparisons made between original and modified files.

Additional features

- Fanuc Data Server support provides the automatic routing of files to facilitate the download of a composite NC Program (includes composite file return for comparison)
- Operators are able to view the contents of the remote PC directory on the CNC screen (ideal for work queues or operator instructions)
- Program Return Verification enables operators to receive a confirmation of a returned programme, eliminating the need to walk to the PC to check.
- Multi port RS232 serial devices enable simultaneous requests from each CNC machine.
- Each Direct DNC host PC will support up to 32 machines.



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

What is Seiki Direct DNC?

Seiki Direct DNC is a shop floor communications solution designed to facilitate controlled transfer of NC files.



- Easy to use - no shop DNC terminal required
- CNC screen used to call programs
- Return machine tool edited programs
- Generates log book of all transfers
- Easy upgrade path to meet your changing requirements
- Supports hardwired RS232 communications only on LAN & WLAN infrastructures

Seiki DNC software is available as a stand alone solution or as an integral part of the Seiki NMS system. Packages include:-

- Seiki Jobpack
- Seiki Monitoring
- Seiki SFDC
- Seiki NMS

The modularity of Seiki software provides manufacturers with a flexible solution and progressive upgrade path.

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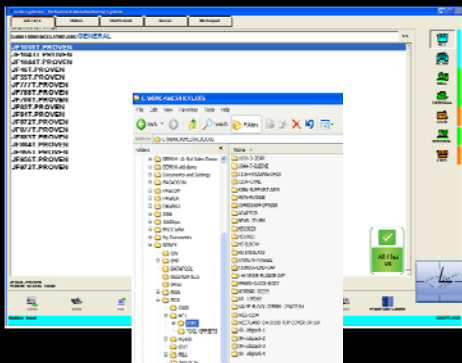


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What is Seiki NDNC?

Seiki Networked DNC is a complete shop floor communications solution designed to facilitate controlled transfer of NC files.



- Traceability with a full audit trail of file transfer
- Centralised storage and display of all manufacturing data
- 8 level user access control for file viewing
- Optional display of "work-to-lists" for operators
- Ability to directly view, edit and compare NC Programs
- Links to other factory systems, including PLM, PDM or other database management systems

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Networked DNC

Seiki Systems Networked DNC 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 shop floor 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 Networked DNC delivers all NC ASCII 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 ability to view, edit and manipulate ASCII Text files (based on user access privileges), graphical status verification and a comprehensive audit trail log.

DNC Manager forms an integral part of the Networked DNC 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 DNC Manager toolkit 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.

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
- Edited NC Program transfer control - all programs in a job folder can be automatically placed on hold until the returned NC Program is approved

Technical Features

- Multi port serial devices enable simultaneous requests from each CNC
- Each Networked DNC installation will support up to 255 machines



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

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