

From Presetter to CNC

ToolConnect is a process control system that automates the transfer of tool presetter data to (and from) the CNC machine control. ToolConnect reads and processes RFID or barcode tool data, and updates offsets automatically, no operator data entry required. Each customizable system is designed to meet unique tool load process specifications, while providing a common interface for all machine tools on the shop floor.

TOOL RFID SYSTEM

Transfers tool presetter measurement data directly to and from the CNC control via RFID tags embedded in tool holders.



- Tools are measured at the presetter where tool data is written to the RFID tag
- The tool is placed in a read station at or inside the machine, and all tool data is read and processed by ToolConnect
- ToolConnect guides the user through required steps and confirms successful completion
- ToolConnect reads and writes data to the CNC control; automatically updating tool offsets and tool life data to (and from) the tag

System Includes:

- ToolConnect software
- A custom-designed tool pot for the proper tool holder type
- A tool ID controller with read/write head
- A touch screen PC for user prompts and information

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tool offsets and tag

2D BARCODE SCANNING SYSTEM

Transfers tool presetter measurement data directly to the CNC control via 2D printed barcode tags.



- Tools are measured at the presetter where the tool data is printed to a barcode
- 2D barcode scanner scans the barcode at the machine
- ToolConnect processes and displays the scanned data
- ToolConnect guides user through required tool load steps and updates information to the correct fields in the CNC control

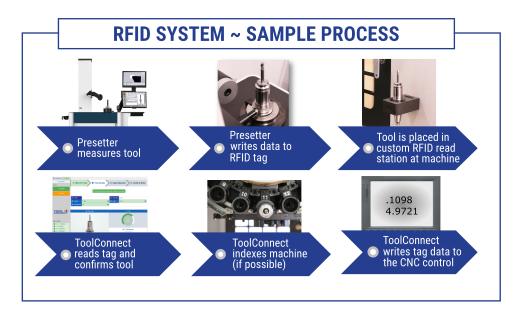


System Includes:

- ToolConnect software
- A 2D barcode scanner
- A touch screen PC for user prompts and information

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- logged with date and time stamp
- Data is available locally or via MTConnect
- This data is valuable for quality control and process verification

SYSTEM FEATURES

- Works with nearly any presetter that can write to an RFID tag or print a 2D barcode
- Easily integrates with almost any machine and control type
- Intuitive operator screens display all tool information and guide the user through the process flow, ensuring each step is successfully completed
- The flexible design of the software can easily accommodate changes to the process
- Automatically indexes to the correct tool magazine position (machine/control dependent)

✓ Wait For Tool ● Tool Details O Index Machine O Verify & Write

Standard Control Interface for:

- Okuma P control
- Fanuc (Focas 1/2)
- Heidenhain
- Mazak
- Mitsubishi
- Siemens 840D
- Fagor
- Makino

BENEFITS

- Automates the process of loading and unloading tools
- Reduces setup time and improves productivity
- Ensures consistent and accurate process flow
- Eliminates operator errors by automatically updating offsets in the control
- Verifies the correct tool is being loaded in machine
- Eliminates the need for a post-processor
- Maximizes chip cutting time by using offline tool setting

OTHER PRODUCTS FROM CARON ENGINEERING









All CEI products are **Connect** compliant

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