











CUSTOM APPLICATIONS FOR MANUFACTURING AUTOMATION

MiConnect technology is a flexible and customizable application builder for the CNC manufacturing environment. It is used to connect devices and operations on a shop floor, automate and simplify manufacturing processes and guide operator flow, to *optimize productivity*. This innovative technology allows manufacturers to control their processes by directing the user through the proper operational steps and has the capability of extracting any necessary data from the CNC.

How will MiConnect Technology provide the solution for YOU?

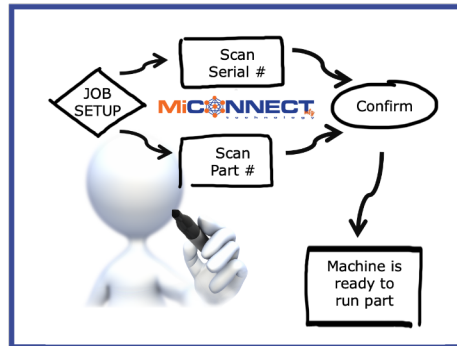
- 
MACHINE TENDING
Provides a direct interface for automation systems to communicate with the CNC control
- 
EXTRACT DATA
Extracts any required information from a machine control
- 
EXTERNAL DEVICE INPUT
Allows input from RFID badge reading, barcodes, files, network systems, and more
- 
MINIMIZE OPERATOR DECISION MAKING
- 
READ AND WRITE CNC CONTROL REGISTERS
Reads and writes any system parameters, variables, offsets, and PLC registers
- 
CONTROL HUMAN PROCESS INTERACTION
Guides the operator through the proper operational steps and verifies success before proceeding
- 
ADD SYSTEMIZED SECURITIES
- 
MTConnect OUTPUT

Designing your CUSTOM MiConnect Application

Select Items to Connect



Outline the Process Flow



Create Project



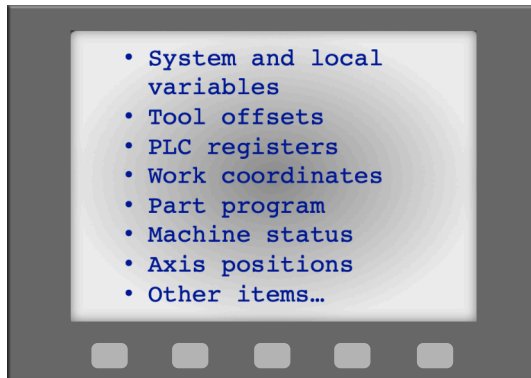
CONTACT US to work with an integration specialist to design your **CUSTOM SOLUTION!**

FEATURES



- Seamlessly connects devices and operations
- Flexible for any application, and connects to almost any machine/control type
- Process flow is customized to the users' specifications
- Guides user through required steps and confirms successful execution
- Can easily be upgraded with new features
- All steps and data are recorded in the Audit Log and available via MTConnect

CNC Data can be Read or Written



Audit Log

| | | | |
|-------------|-------------------------------|---------------|---|
| | Information | Field Service | Screen 'indexingMag' was displayed to the user interface. |
| 11:42:28 AM | Routine Step 'Index Magazine' | | |
| | Information | Field Service | Running routine step Index Magazine (3/4) |
| 11:42:29 AM | Screen Displayed | | User Interface / openDoorPlaceTool |
| | Information | Field Service | Screen 'openDoorPlaceTool' was displayed to the user interface. |
| 12:57:45 PM | Screen Displayed | | User Interface / writingCNCOffsets |
| | Information | Field Service | Screen 'writingCNCOffsets' was displayed to the user interface. |
| 12:57:45 PM | Routine Step 'Write Offsets' | | |
| | Information | Field Service | Running routine step Write Offsets (4/4) |
| 12:57:46 PM | Screen Displayed | | User Interface / loadComplete |
| | Information | Field Service | Screen 'loadComplete' was displayed to the user interface. |

- Every step, action, and data exchange is logged with date and time stamp
- Data is available locally or via **MTConnect**
- This data is valuable for quality control and process verification

BENEFITS

- Eliminates data entry and process errors
- Automates communication to the CNC control
- Reduces setup time and streamlines process execution
- Controls discrete devices via digital I/O
- Creates user defined checks and balances
- Minimizes operator decision making and adds system securities
- Provides consistent and accurate control of your manufacturing processes



OTHER PRODUCTS FROM CARON ENGINEERING



All CEI products are **MTConnect** compliant

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MADE IN THE U.S.A.

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