Mazak AND MTConnect

Q: **WHAT IS MTCONNECT?**

A: MTConnect is an open communications protocol that provides interconnectability in the manufacturing arena. This free and open protocol enables devices and systems from different suppliers to capture and share information in a common format.

Q: **HOW DOES MTCONNECT BENEFIT ME?**

A: MTConnect simplifies monitoring and management of your production system by providing a common communication tool for all of your equipment. It allows the capture of data from every MTConnect-compliant piece of equipment in your facility and allows it to be distilled into a single interface that makes it easier to understand the whole of your operations.

Q: **WHAT DO I NEED TO TAKE ADVANTAGE OF MTCONNECT WITH MY EXISTING MAZAK MACHINES?**

A: The machine must first be prepped by upgrading it to the latest version of the Mazak Main software. Then, you can purchase the MTConnect ADAPTER for your specific machine model from Mazak. From there, it's as simple as plugging the machine into your network and integrating an internally developed or 3rd-Party monitoring software solution.

Q: **WHICH MAZAK MACHINES ARE EQUIPPED WITH MTCONNECT?**

**A:** At present, the following series of Mazak machines are compliant with MTConnect when purchased new:

- HORIZONTAL CENTER NEXUS
- HYPER QUADREX
- INTEGREX IV
- INTEGREX **e**-Series
- INTEGREX **i**-Series
- INTEGREX **j**-Series
- MEGATURN NEXUS
- QUICK TURN NEXUS
- SLANT TURN NEXUS
- VARIAXIS
- VERTICAL CENTER NEXUS

Additionally, all other Mazak machines can be upgraded to include MTConnect compatibility.

Q: **HOW CAN MAZAK HELP ME IMPLEMENT MTCONNECT IN MY OPERATIONS?**

A: Mazak is happy to assist customers with the integration of a MTConnect PILOT project. Our representatives will review your goals and current Mazak equipment list, then provide a customized list of steps needed to reach your objectives. For more information, please visit the Mazak MTConnect support page, **www.mazakusa.com/mtconnectsupport.asp**, or contact us directly via 859.342.1881 or **MTConnect@MazakCorp.com**.

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WHAT THE MTCONNECT SYSTEM LOOKS LIKE

Mazak is shipping machines MTConnect prepped from our factories.

API → Adapter → TCP → MTConnect Agent → Http → Client Software

Provided by Mazak
(Or OEM provided for other products)
Collects machine data from NC and sends to AGENT.

MTConnect Open Source
Collects data from Adapter(s) and maintains machine state info. Responds to client requests for data.

3rd-Party Software
Vendors:
i_Gear
System Insights
SCADAware
Etc.
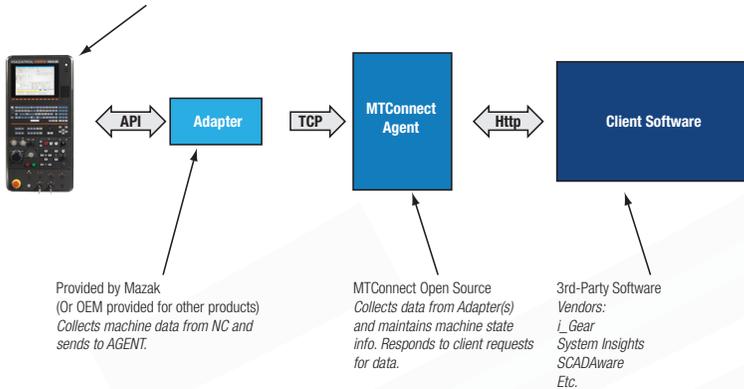
MTConnect System Diagram

Mazak Machine Tool

1 NC Main Software — MTConnect Prep → Standard

2 MTConnect Adapter Software

Ethernet

MTConnect Adapter
Includes: items #2, #3 and #4 on left diagram
- NC main software update
- Machine configuration file
- Technical phone support
Not included: service installation fee (half day)

Office

3 MTConnect Agent Software

4 Machine Configuration File
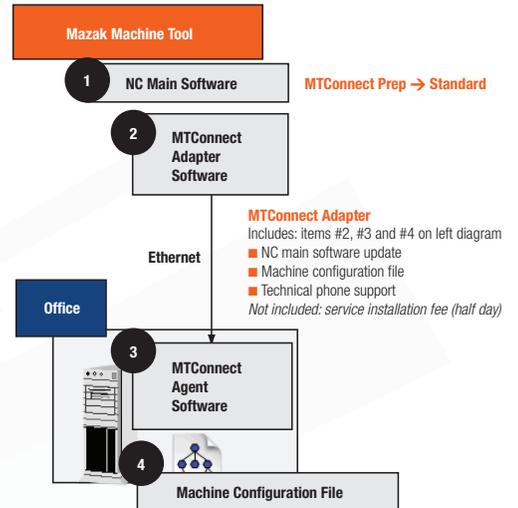
MAZATROL CONTROLS THAT ARE MTCONNECT COMPLIANT

SHAPING THE FUTURE

Mazak has supported MTConnect throughout its development as a member of the MTConnect Technical Advisory Group. In this role, we have helped shape this new communications protocol to ensure that it provides manufacturers with tangible benefits related to production management.

SATISFIED USERS

Mazak customers utilizing MAZATROL CNC controls can take full advantage of MTConnect's revolutionary productivity-enhancing connectivity. In fact, several of the companies we support are using this product management technology and experiencing tremendous productivity gains, including Exactech, Parlec and Task Force Tips.

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