






Data Items Available Listed by Functionality Group












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Machine Make: Mazak Corporation
 Machine Model: QTN-xxxx
 Controller Model: Matrix2
 MTConnect Version: 1.2
 Adapter Version: 1.2.0.8
 Adapter Type: Native

Functional Group: Motion



| Data Item | Description | Included |
|--------------------------|--|---|
| Axis Feed Rate | The feed rate of a linear axis. |  |
| Feed Rate Override | Feed Rate Override expressed as a percentage of the calculated feed rate. |  |
| Path Feed Rate | The feed rate of the tool path. |  |
| Rotary Velocity | The rotational speed of a rotary axis. Spindle Speed of the C Axis. |  |
| Rotary Velocity Override | Rotary Velocity Override expressed as a percentage of the rotary velocity. Spindle Speed Override of the C Axis. |  |

Functional Group: State



| Data Item | Description | Included |
|-----------------------------------|--|---|
| Execution Ready | An Execution State of the Controller identifying the machine is ready to run |  |
| Execution Active | An Execution State of the Controller identifying the machine is actively running |  |
| Execution Interrupted | An Execution State of the Controller identifying the machine has been interrupted |  |
| Execution Feed Hold | An Execution State of the Controller identifying motion has been stopped due to Feed Hold |  |
| Execution Stopped | An Execution State of the Controller identifying the controller has been stopped |  |
| Execution Optional Stop | An Execution State of the Controller identifying motion has been stopped due to an Optional Stop |  |
| Execution Program Stopped | An Execution State of the Controller identifying motion has been stopped due to a Program Stop |  |
| Execution Program Completed | An Execution State of the Controller identifying motion has been stopped due to the program completing execution |  |
| Controller Mode Automatic | The current mode of the Controller. |  |
| Controller Mode Manual | The current mode of the Controller. |  |
| Controller Mode Manual Data Input | The current mode of the Controller. |  |

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|-------------------------------------|--|---|
| Controller Mode Semi Automatic | The current mode of the Controller. |  |
| Controller Mode Single Block | The current mode of the Controller. |  |
| Controller Mode Edit | The current mode of the Controller. |  |
| Emergency Stop Armed | The current state of the emergency stop signal indicating that emergency stop is not currently active |  |
| Emergency Stop Triggered | The current state of the emergency stop signal indicating that emergency stop is currently active |  |
| Chuck State Open | An indication that the operating state of a mechanism that holds a part or stock material during a manufacturing process is open. |  |
| Chuck State Closed | An indication that the operating state of a mechanism that holds a part or stock material during a manufacturing process is closed. |  |
| Chuck State Unlatched | An indication that the operating state of a mechanism that holds a part or stock material during a manufacturing process is unlatched. |  |
| Door State Open | The state of the door is currently open. |  |
| Door State Closed | The state of the door is currently closed. |  |
| Door State Unlatched | The state of the door is currently unlatched. |  |
| Functional Mode Production | The current intended production status of the device or component is production. |  |
| Functional Mode Teardown | The current intended production status of the device or component is teardown. |  |
| Functional Mode Maintenance | The current intended production status of the device or component is maintenance. |  |
| Functional Mode Process Development | The current intended production status of the device or component is process development. |  |


Functional Group: Error

| Data Item | Description | Included |
|---------------|--|---|
| Logic Program | An error occurred in the logic program or PLC (programmable logic controller). |  |
| System | A CONDITION representing something that is not the operator, program, or hardware. |  |

Functional Group: Program / Parts

| Data Item | Description | Included |
|------------|---|---|
| Part Count | The current count of parts produced as represented by the Controller. |  |
| Program | The name of the program being executed by the Controller component. |  |

Functional Group: Tooling

| Data Item | Description | Included |
|-------------|---|---|
| Tool Number | The identifier of a tool provided by the device controller. |  |

Functional Group: Other

| Data Item | Description | Included |
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