

MAZAK DATA ITEMS

DataXchange Machine Monitoring Data Items

Scytec DataXchange utilizes direct connectivity to acquire data for DataXchange machine monitoring. Below you can find the specific data items that can be collected from **Mazak Smooth Series** controllers. Data can then be visualized into useful manufacturing dashboards and charts, used with DXIQ, or by Vericut CNC Machine Connect.

Data Items Collected

Data Items Description

Alarms The list of active alarm numbers reported

Alarm Code The active alarm number without the description

Alarm Detail The active alarm number and description

Alarm Status The alarm status of the control

Common Variable The current value held by the specific common variable

Connected Time The amount of time in seconds since a successful connection

Cycle Status Whether a machine is in cycle or idle

Emergency Stop Whether or not the machine is in emergency stop

Feed Hold Whether or not a machine is in a feed hold

Feed Rate OverrideThe active feed rate override setting as a percentage

Mode Selection The current setting for the mode selection

Part Count The current part count

Part Number Executing ProgramThe part number read from the executing program **Part Number Main Program**The part number read from the full main program

Path Feed Rate Feed rate for the selected path

Program CommentProgram comment matching the search keyProgram ExecutingThe main or sub program currently executing

Program Main The main program currently executing

Program/Optional Stop Whether program has stopped due to an M0/M1 code

Rapid Override The percentage of the rapid traverse override

Spindle Override The percentage of the spindle override for the specified spindle

Spindle SpeedThe spindle speed for the specified spindle **Spindle Load**The spindle load for the specified spindle

Tool Number The active tool number



Scytec DXIQ and Vericut CNC Machine Connect

Specific data points are pulled from your shop floor equipment by DataXchange for use with Scytec DXIQ analytics and **Vericut CNC Machine Connect**. Below you will find the specific continuous data and the on-demand data that can be collected through the Precheck, CNC Machine Monitoring and Postcheck process in Vericut CNC Machine Connect.

Continuous Data

Active Alarms

Axis Feedrates

Axis Positions

Block Skip

Controller Mode

Coolant

Dry Run

E-Stop State

Executing Program Name

Feed Rate Override

Variables

Main Program Name

Optional Stop

Program Stop

Parameters

Path Feedrates

Rapid Override

Sequence Number

Spindle Direction

Spindle Override

Spindle Speed

Sub Program Name

Tool ID

Active Work Offset

On-Demand Data

Axis Positions
Individual Parameters
Machine Configuration
Main CNC Program
Sub CNC Programs
Variables
Tool Offsets
Work Offsets

