



Mazak Variaxis i700T by Swoosh Technologies

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SIEMENS

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- C Axis Shortest Path Supported

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- Arc Output Mode
- Helix Output Mode
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- Rotary Axes
- Spindle Axis Vector

Main Codes

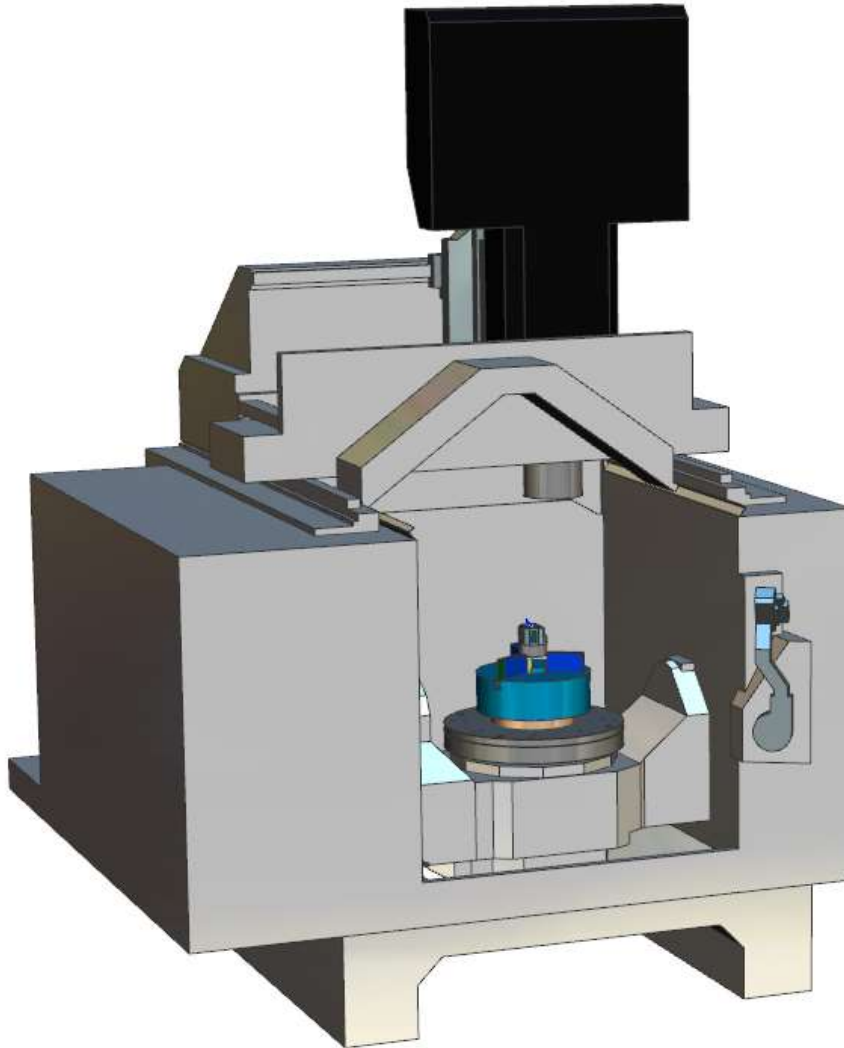
- Rapid Motion
- Linear Motion
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Post-Processor Information

- Name, Version, & Supported NX Versions

Custom User Defined Events

- Header
- Tool Laser
- Machining Setup



General Information

* INDICATES ADDITIONAL INFORMATION/SPECIFICATIONS PROVIDED

MACHINE MODE:	Mill/Turn
MACHINE TYPE:	5 Axis Table Table
MACHINE CONTROLLER:	Smooth X
UNIT:	Metric/Inch

Controller Capabilities

* INDICATES ADDITIONAL INFORMATION/SPECIFICATIONS PROVIDED

PLANE OUTPUT SUPPORTED:	All – G68.2
TCPM OUTPUT SUPPORTED:	Yes – G43.3
POLAR MODE SUPPORTED:	N/A

Kinematics Setting

* INDICATES ADDITIONAL INFORMATION/SPECIFICATIONS PROVIDED

ARC OUTPUT MODE:	Full Circle
HELIX OUTPUT MODE:	Full Circle
LINEAR AXES:	X,Y,Z
ROTARY AXES:	A,C
SPINDLE AXIS VECTOR:	0,0,1
4TH AXIS:	A0
5TH AXIS:	C0

Main Codes

* INDICATES ADDITIONAL INFORMATION/SPECIFICATIONS PROVIDED

RAPID MOTION:	G0
LINEAR MOTION:	G1
CIRCLE MOTION:	G2, G3
Plane Settings:	• G17 – Milling • G18.2 – Turning @ A0° • G18.3 – Turning @ A-90°

Post-Processor Information

* INDICATES ADDITIONAL INFORMATION/SPECIFICATIONS PROVIDED

NAME:	Mazak_i700T
VERSION:	23.04.0
SUPPORTED NX VERSIONS:	• NX 1980 and Later

Custom User Defined Events

* INDICATES ADDITIONAL INFORMATION/SPECIFICATIONS PROVIDED

*UDE 1 - Mazak Tuning	• G61.1 On/Off • G05P2 On/Off
*UDE 2 - Mazak Coolant:	• Flood • Thru • Thru High • Thru Air • Niagara • Pressure

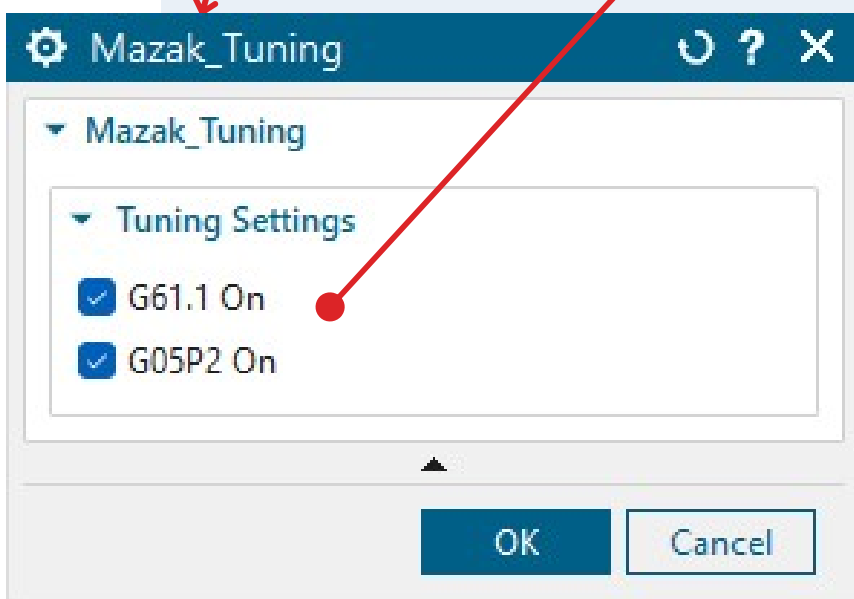
Custom User Defined Events

* INDICATES ADDITIONAL INFORMATION/SPECIFICATIONS PROVIDED

*UDE 1 - Mazak Tuning:	• G61.1 On/Off • G05P2 On/Off
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- Attach UDE to Method Group and/or Operation to set Tuning parameters

```
(MILL TUNING ON - START)
(Coolant - Start)
M8
(Coolant - End)
G61.1
G05P2
(MILL TUNING ON - END)
```

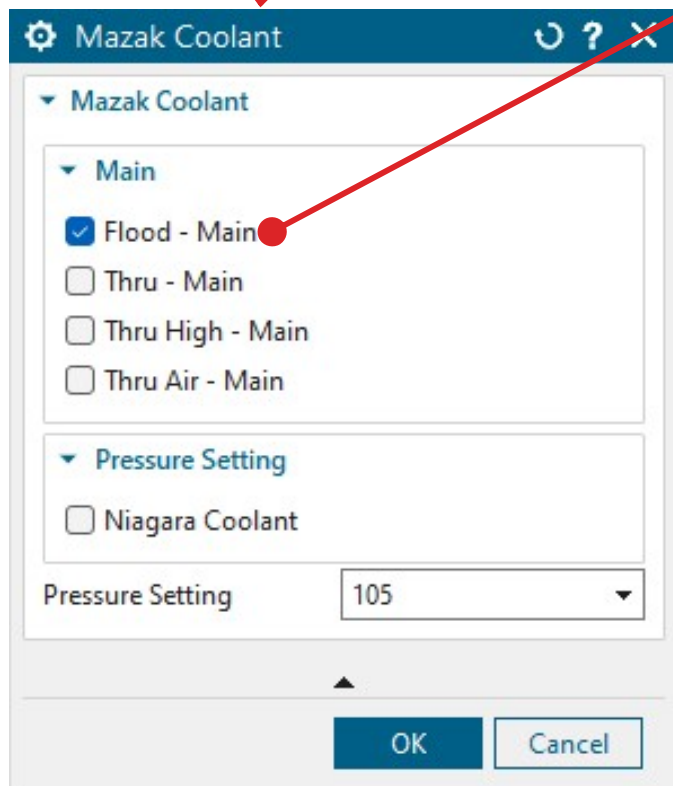


Custom User Defined Events

* INDICATES ADDITIONAL INFORMATION/SPECIFICATIONS PROVIDED

*UDE 2 - Mazak Coolant:	• Flood • Thru • Thru High • Thru Air • Niagara • Pressure
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- Attach UDE to Method Group and/or Operation to set Coolant commands



Mazak Coolant

▼ Mazak Coolant

▼ Main

☒ Flood - Main

☐ Thru - Main

☐ Thru High - Main

☐ Thru Air - Main

▼ Pressure Setting

☐ Niagara Coolant

Pressure Setting 105

OK Cancel

```
(MILL TUNING ON - START)  
(Coolant - Start)  
M8  
(Coolant - End)  
G61.1  
G05P2  
(MILL TUNING ON - END)
```