

## CNC GUIDE 2

Powerful CNC Simulation for Smarter Manufacturing



Uses real FANUC control algorithms



True digital FANUC CNC



Runs on standard PCs

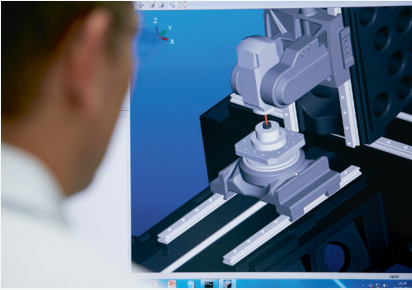
CNC GUIDE 2 is a PC-based CNC simulator and a core component of FANUC's Smart Digital Twin tools. More than a virtual CNC, it accurately reproduces the behavior of a real FANUC control—down to the control logic, servo dynamics, and machine characteristics.

### Why CNC GUIDE 2?

Accuracy, speed, and predictability are critical to CNC machine performance. Verifying CNC behavior on a physical machine can be risky, costly, and time consuming. With extreme accuracy, CNC GUIDE 2 validates CNC part programs and control behavior in a virtual environment—helping prevent machine crashes, surface quality issues, and scrapped parts.

Plus, high speed simulation allows programs to run up to 100× faster than real world cycle time, dramatically reducing verification and optimization time.

## Benefits for CNC Users



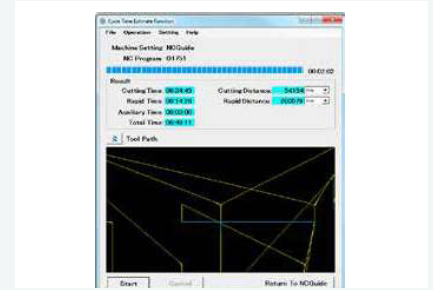
### True CNC Simulation

Go beyond basic part program verification. CNC GUIDE 2 reproduces real CNC behavior, including servo acceleration/deceleration, smoothing, and interpolation.



### Safer Machining

Avoid costly collisions and reduce risk. CNC GUIDE 2 generates precise tool trajectories, providing confidence before cutting material.



### Fast Process Optimization

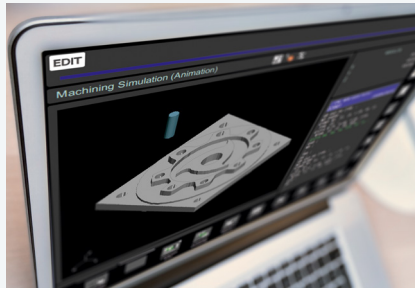
Run long programs, analyze cycle times, and evaluate surface quality in a fraction of the time—without tying up the physical machine.

## Benefits for Machine Tool Builders



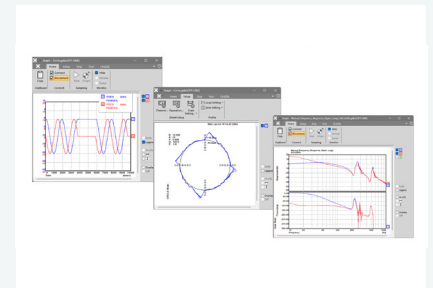
### Accelerate Development

Use CNC GUIDE 2 as a powerful development and debugging platform. Design HMI screens, verify ladder programs, and configure CNC settings well before machine startup.



### Prove Out Concepts

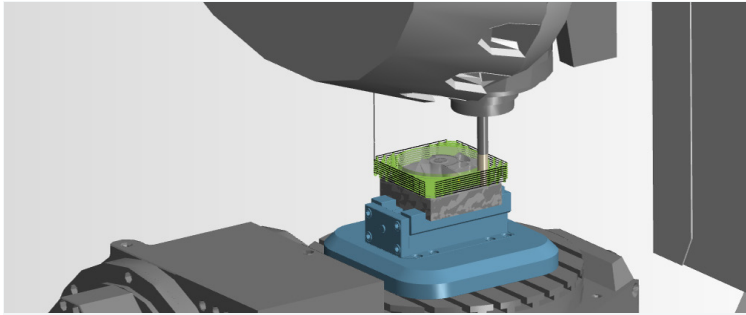
Because CNC GUIDE 2 uses the same FANUC control algorithms as real hardware, simulations accurately reflect real world settings, options, and tuning conditions.



### Servo Model Technology

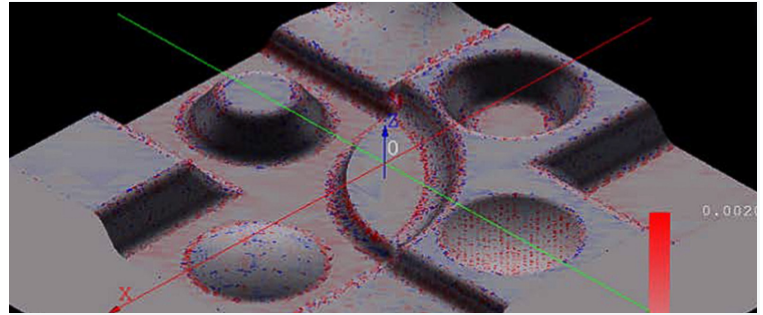
By incorporating real machine data—including servo parameters and frequency response—the simulation faithfully reproduces mechanical characteristics and axis behavior.

# Unlock More with FANUC Smart Digital Twin Tools



## CNC Reflection Studio

Simulate full machine motion directly from G-code to verify axis movement and machine behavior.



## Surface Estimation Tool

Analyze simulated machined surfaces to identify tool marks and surface finish issues before production begins.

## Specification list CNC GUIDE

### CNC Models Supported by CNC GUIDE 2

FS0i-F	FS30i-LB	FS31i-B5 Plus 26AX
FS0i-F Plus (High-speed edition)	FS30i-LB Plus	FS31i-LB Plus 26AX
FS0i-LF Plus	FS31i-B	FS31i-LB Plus C02 26AX
FS30i-B	FS31i-B Plus	FS32i-B
FS30i-B Plus	FS31i-B Plus 12AX	FS32i-B Plus
FS30i-B Plus 12AX	FS31i-B Plus 26AX	FS32i-B Plus Line
FS30i-B Plus 32AX	FS31i-B5	Power Motion <i>i</i> -A Plus
FS30i-B Plus 72AX	FS31i-B5 Plus	Power Motion <i>i</i> -A Plus ELCAM
FS30i-B Plus LASER	FS31i-B5 Plus 12AX	Series 500i-A

### Technical Requirements

<b>OS</b>	Windows 10 (64bit) Version 22H2 or higher; Windows 11 (All Versions)
<b>CPU</b>	Intel Core i5 or higher (Intel Core i7 or higher is recommended)
<b>RAM</b>	8 GB or more (16 GB or more is recommended)
<b>Hard Disk</b>	23.0 GB or greater
<b>Screen Resolutions</b>	1280 X 1024 (SXGA) or higher (1920 X 1080 (Full HD) or higher recommended)

### License Options

<b>1 User*</b>	A08B-9010-J840#ZZ99
<b>Network License 3 Users</b>	A08B-9010-J734#ZZ99
<b>Network License 10 Users</b>	A08B-9010-J841#ZZ99
<b>Network License 20 Users</b>	A08B-9010-J842#ZZ99
<b>Network License Site License</b>	A08B-9010-J843#ZZ99

\*This license option is not supported on network servers.

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3900 West Hamlin Road, Rochester Hills, MI, 48309, United States

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