FANUC CNC GUIDE CNC Simulator



CNC GUIDE

CNC GUIDE is a PC software that enables the execution and display of what is equivalent to the actual CNC. One can learn how to operate CNC, check the machining program, confirm the operation of customization features.

And, by connecting the MOP simulator, one can train with the same operation feeling as an actual machine.



CNC Simulator

CNC simulator is a training device which uses the actual hardware.

Learning CNC operation using actual CNC display, MDI key, manual pulse generator used in machining tools as well as programming, and checking the created machining program is possible.





Purpose

- Operation screen development
- Application development in C language
- Ladder program development

Features

Development

- For machine tool builders
- Also supports multi-axis, multi-path
- We provide network license version for 10, 20 people as well as site license



Learning CNC Operation/ Machining Program

Purpose

- Learning CNC operation
- Learning CNC programming

Features

- Software for PC
- For education
- We have prepared a sample program that is handy for learning
- It is available for classroom use or individual learning at home
- A MOP simulator with the same operation feeling as a machine tool is available





Learning CNC Operation/ Machining Program

Purpose

- •Learning CNC operation
- Learning CNC programming

Features

- •Uses actual hardware
- For education
- Availability of machining center and lathe in one simulator
- Universal power supply (100VAC to 240VAC)

CNC GUIDE

Development and debugging of custom screens and ladder programs can be effectively performed on the PC. As you can actually debug on a PC in the office before changing the customized software on the actual machining tool, it will improve efficiency of development work.

FANUC PICTURE

- Confirm the functionality of the screens created with FANUC PICTURE on the CNC GUIDE
- · The executable screens confirmed on the CNC GUIDE can be loaded on the CNC without converting them

C Language Executor

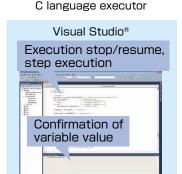
- C language program for CNC is compiled for the PC and operation is checked on the CNC GUIDE
- · Source code debugging using Visual Studio®*1)

PMC Simulation

- · Simulation of the ladder program performed on the PC
- · Supports various functions such as Multi-path PMC and Function Block
- · Debugging by FANUC LADDER-III via Ethernet connection

Create operation screen

FANUC PICTURE



CNC GUIDE Education Package

Possibility to perform CNC operation training on the PC.

It is possible to learn CNC operation without using the actual machining tool.

We provide classroom licenses for 16/32 students and single licenses for self-study at home for 1 or 3 years.

By connecting the MOP simulator that integrates the MDI and the operatoe's panel, training is possible with the same operation feeling as an actual machine tool.

- · Operation in MEM & MDI mode/Automatic operation
- · Write the machining programs and machining cycles in EDIT mode
- Use of macro variables and system variables
- Operation by calling sub-programs and DNC
- · Displays the same alarm as on the machine when errors occur
- · Machining simulation (cutting animation, tool path drawing)







MOP Simulator

- · Connect to a PC with a USB cable
- · No setting required
- · The keys of operator's panel can be customized

CNC Simulator

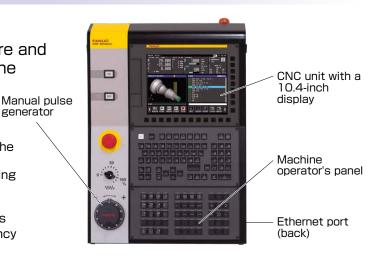
It is possible to operate and program CNC/ MANUAL GUIDE \dot{i}^{*2} on the actual hardware and train with the same feeling of the operation as the machine tool.

Ideal for training those who have never used a machine tool.

- · Immediately usable by connecting to the electrical outlet at the classroom or office
- · Both trainings are possible by switching between the machining center system and the lathe system
- \cdot It comes with standard MANUAL GUIDEi
- · Easy to understand simple system configuration for beginners
- · Equipped with the same manual pulse generator and emergency stop button as the real machine tool
 - *1) Visual Studio® is a registered trademark or trademark in the United States and other countries of Microsoft Corporation of the United States.

generator

*2) MANUAL GUIDEi is the operation guidance function that allows easy creation of a machining program.



Lineup (CNC GUIDE)

There are the following 2 types of CNC GUIDE.

- · CNC GUIDE (Creation and verification of the machining program)
- · CNC GUIDE Education Package (Learning operation method)

There are the following 2 types of educational package.

- ·Intended for use in the classroom
- ·Intended for students for self-study at home

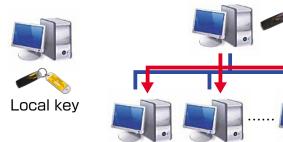
Product name		Note
CNC GUIDE	1 user	
	10 users	Possible for up to 10 people to use at the same time
	20 users	Possible for up to 20 people
		to use at the same time
	Site license	It can be used one
		business premises
	Update	
CNC GUIDE Education Package	Classroom/	Possible for up to 16 people
	for 16 people	to use at the same time
	Classroom/	Possible for up to 32 people
	for 32 people	to use at the same time
	Self-study at home/1 year	Usage period is 1 year (1 user)
	Self-study at home/3 years	Usage period is 3 years (1 user)
	Update	

Hardware key (CNC GUIDE)

Local key: Attached to the PC running CNC GUIDE. Network key: Attached to a network PC.

> Each PC acquires the license through the network, and the number of CNC GUIDE that you are licensed for can be used at the same time.

(* available in the same IP segment)



Network key

Specification List CNC GUIDE

Item		Specification		
Applicable devices		30 <i>i</i> series	Series 30 <i>i</i> /31 <i>i</i> /32 <i>i</i> - MODEL Series 31 <i>i</i> - MODEL B5 Series 30 <i>i</i> /31 <i>i</i> /32 <i>i</i> - MODEL Series 31 <i>i</i> - MODEL B5 Plus Series 31 <i>i</i> - MODEL A	_
		O i series	Series Oi - TD / MD Series Oi - TF / MF Series Oi - TF Plus / MF Plus	
		Laser / punch press /wire cut	Series 31 <i>i</i> - LB / PB / WB	
		CNC for transfer line	Series 35i - MODEL B	
		CNC for general motion applications	Power Motion i - MODEL A	
Display	device type*1)	8.4" / 10.4" / 15" / 19"		
MDI key	/	QWERTY / ONG		
Display	Picture mode	Displays actual CNC appearance		
mode	Window mode	CNC screen, MDI key, display operation panel, and more at each separate window		
Display mode	CNC operation screen section*1)	25 languages (English, Japanese, German, French, Spanish, Italian, Chinese (Traditional), Chinese (Simplified), Korean, Portuguese, Dutch, Danish, Swedish, Hungarian, Czech, Polish, Russian, Turkish, Romanian, Bulgarian, Slovak, Finnish, Vietnamese, Indonesian, Slovenian)		
	Application operation section	2 languages (English, Japanese)		
	Item	CNC GUIDE*1)	CNC GUIDE Education F	Package

Item	CNC GUIDE*1)	CNC GUIDE Education Package	
System	Lathe / N	Machining	
Maximum number of paths	4 paths	1 path	
Maximum number of control axis	20 axes	4 axes	
Maximum spindle number	4 axes	1 axis	
Maximum program capacity	8Mbyte	32kbyte	
Maximum program number	4000	63	

st1)Will vary depending on the model. When you select Series 30i-MODEL B.

MOP Simulator

Item	Specification
External dimensions	320mm x 260mm x 65mm (w x d x h)
Weight	Approx 1.1kg
Operation section	MDI key, Soft key, Machine operator's panel, Emergency stop button, Override switch, Manual pulse generator
USB connector	Type-B
Communication I / F	USB1.1
Input rating	DC5V (USB Bus power)
Other	The keys of the operator's panel can be

CNC Simulator

Item	Specification
External dimensions	421mm x 220mm x 608mm (w x d x h)
Weight	Approx 12 kg
Display device	10.4" LCD
	MDI (QWERTY key) unit, Machine
Operation section	operator's panel, Emergency stop button,
	Override switch, Manual pulse generator
Input and output media	USB memory, CF card
Communication I / F	Ethernet
Input rating	100VAC to 240VAC, 0.8A to 0.4A, 50/60Hz
Other	Security slot

	Machining center system
System	(number of control axis 3-axis, spindle 1 axis)
(Switching possible)	Lathe system
	(number of control axis 2-axis, spindle 1 axis)
Display mode	24 languages (English, Japanese, German, French, Spanish, Italian, Chinese (Traditional), Chinese (Simplified), Korean, Portuguese, Dutch, Danish, Swedish, Hungarian, Czech, Polish, Russian, Turkish, Romanian, Bulgarian, Slovak, Finnish, Vietnamese, Indonesian)

Cannot connect the motor.

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^{*} Cannot add or change optional features.