

MITSUBISHI CNC

Software for CNC Training,
NC Trainer

Software for Customized Development Support,
NC Trainer plus

New product



**Commonly Encountered Problems
in CNC Training/Customized Development**

**Want to train new operators,
but production can't be stopped.**



**Want to train local employees prior to
starting overseas production.**



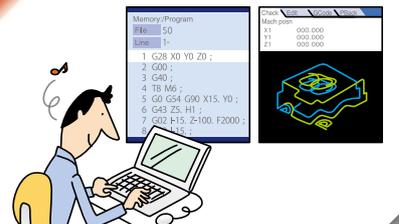
**Anxious about using actual CNCs for
training.**



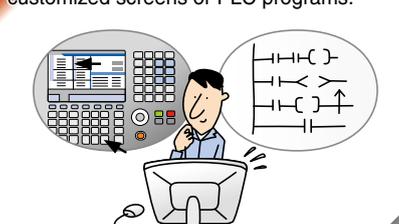
**Not being able to learn CNC operations
using a personal computer.**



**Not being able to edit CNC programs/check
operations using a personal computer.**



**Not being able to use a personal computer to
check operations when developing
customized screens or PLC programs.**



**NC Trainer and
NC Trainer plus Offer a
Comprehensive Solution!**

**Simulation of CNC Operation Using
a Personal Computer is Now Possible**



Operation via a Single Personal Computer
This software realizes display quality and operation at the same level as MITSUBISHI CNC M700V/M70V Series without the need for an NC unit, dedicated display or operation panel.

Well Suited to Group Training
Multiple users can use the software simultaneously via a single network-connection license key.

Execute NC programs on CNCs
Numerical control (NC) programs created using NC Trainer can be executed on actual machines.*
* To avoid problems such as interference, be sure to check the program thoroughly before executing it on an actual machine.

Training using Customized Screens NEW
NC Trainer is also available as an operation mastering tool that can be used by each customer. Use NC Trainer plus to create a machine operation panel according to individual machine tools, then load it into NC Trainer for training.



for a greener tomorrow



Functions of NC Trainer/NC Trainer plus

NC Trainer

Create/Check NC programs, perform setup and machine operations and output NC programs all via a personal computer. This software allows total personal computer-based CNC operation training and program reviews without having to use an actual CNC.

Create NC programs



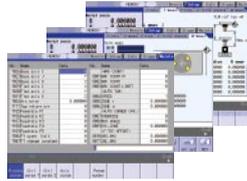
Create NC programs while referring to drawings. Possible to use G code and dimension input (NAVI MILL/NAVI LATHE).

Check programs



Visually check whether or not the NC program created operates correctly.

Setup operation



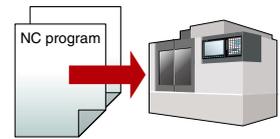
Trainees can learn how to operate setting screens for parameters, workpiece coordinates and tool offsets, all set prior to actual machining.

Program operation



Possible to learn a series of operations via NC programs created and execute graphic tracing during operation.

Output



The NC programs can be output and loaded to a machine for operation.

NC Trainer plus

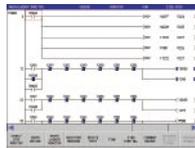
NC Trainer plus has the additional function of supporting customized development. Customize the operation panel, create and debug programmable logic controller (PLC) programs, make alterations to customized screens and output various data such as parameters or tool data all using a personal computer.

Customize the operation panel



Flexibility to change the key layout of the operation panel.

Create PLC programs and check operations



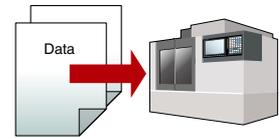
PLC programs can be created and the operations can be checked using on-board function or "GX-Developer".

Check operations of customized screens



Customized screens created using "NC Designer" can be opened and checked with NC Trainer plus.

Export/Import



Various data can be imported to NC Trainer to realize a dedicated operation training environment according to individual machine tool specifications.

License type

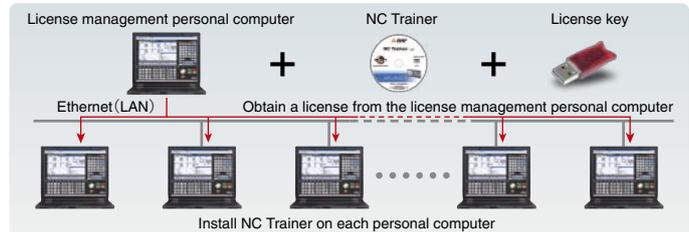
Standalone

One user license is required for each computer. To enable use, simply install NC Trainer/NC Trainer plus on a personal computer and insert the USB license key.



Network connection

License packs for 10, 20, 30 or 50 users are available. Simultaneous use is limited to the total number of licenses purchased.



Specifications

	NC Trainer		NC Trainer plus	
	Machining center system	Lathe system	Machining center system	Lathe system
Number of control axes				
Maximum number of control axes (NC axes + spindles + PLC axes)	5	4	16	16
Maximum number of NC axes (in total for all the part systems)	4	3	16	16
Maximum number of spindles	1	1	4	6
Maximum number of PLC axes	0	0	6	6
Maximum number of part systems	1	1	2	4
Language	17 languages (Japanese, English, German, Italian, French, Spanish, Chinese (traditional and simplified characters), Korean, Portuguese, Hungarian, Dutch, Swedish, Turkish, Polish, Russian and Czech)			
NC display area	17 languages (Japanese, English, German, Italian, French, Spanish, Chinese (traditional and simplified characters), Korean, Portuguese, Hungarian, Dutch, Swedish, Turkish, Polish, Russian and Czech)			
Other than NC display area	4 languages (Japanese, English and Chinese (traditional and simplified characters))			

* Please contact Mitsubishi Electric for other specifications.

Operating environment

Item	Specifications
OS	Windows® XP SP3 or later (32-bit version)/ Windows Vista® SP2 or later (32-bit version)/ Windows® 7 (32-bit version/64-bit version) (Both versions for Japanese, English and Chinese (traditional and simplified characters)) Windows® 8 to be supported (Under development)
CPU	Speed of 1.8GHz or greater and containing 2 or more cores
Memory	2GB or more
Available hard disk space	200MB or more (excluding the free space necessary for running the OS)
Display	XGA (1024 × 768) or better resolution
Interface	CD-ROM or DVD drive, Ethernet and USB 1.1 or higher

(Note) Windows® is a trademark or registered trademark of Microsoft Corporation in the United States and other countries.

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