MITSUBISHI ELECTRIC

Changes for the Better

Numerical Control (CNC)

Instruction Manual

NC Configurator2

MELSOFT

IB-1501046(ENG)-M

Introduction

This instruction manual describes how to use NC Configurator2. Incorrect handling may lead to unforeseen accidents, so make sure to read this instruction manual thoroughly before operation to ensure correct usage.
NC Configurator2 supports the following NC series.

Written as in this manual	Appropriate NC
M8V, M8V Series	M800VW/M800VS/M80VW/M80V Series
M8, M8 series	M800W/M800S/M80W/M80 series
E80, E80 Series	E80 series
C80, C80 Series	C80 Series
M7, M7 series	M700V/M700/M70V/M70 series
E70, E70 series	E70 series
C70, C70 Series	C70 Series
M60/M60S series	M60/M60S series and E60/E68

Screens under development are included in this manual. So the screens used in this manual might differ slightly from the actual screens.

Notes on Reading This Manual

(1) This manual describes as many special operations as possible, but it should be kept in mind that operations not mentioned in this manual cannot be performed.
(2) For the specifications of individual machine tools, refer to the manuals issued by the respective machine tool builders. The "restrictions" and "available functions" described by the machine tool builders have precedence over this manual.

Precautions for Safety

Always read the specifications issued by the machine tool builder, this manual, related manuals and attached documents before installation, operation, programming, maintenance or inspection to ensure correct use.
Understand this numerical controller, safety items and cautions before using the unit.
This manual ranks the safety precautions into "DANGER", "WARNING" and "CAUTION".

⚠**DANGER**	**When the user may be subject to imminent fatalities or major injuries if handling is mistaken.**
⚠**WARNING**	**When the user may be subject to fatalities or major injuries if handling is mistaken.**
⚠**CAUTION**	**When the user may be subject to injuries or when property damage may occur if handling is mistaken.**

Note that even items ranked as " ⚠ CAUTION", may lead to major results depending on the situation. In any case, important information that must always be observed is described.

The following signs indicate prohibition and compulsory.

	**This sign indicates prohibited behavior (must not do).** **For example,  indicates "Keep fire away".**
	**This sign indicates a thing that is compulsory (must do).** **For example,  indicates "it must be grounded".**

The meaning of each pictorial sign is as follows.

 CAUTION	 CAUTION rotated object	 CAUTION HOT	 Danger Electric shock risk	 Danger explosive
 Prohibited	 Disassembly is prohibited	 KEEP FIRE AWAY	 General instruction	 Earth ground

⚠DANGER

Not applicable in this manual.

⚠WARNING

Not applicable in this manual.

⚠ CAUTION

1. Items related to operation

⚠ **Items not described in this manual must be interpreted as "not possible".**

⚠ **This manual is written on the assumption that all option functions are added.**

⚠ **Some screens and functions may differ depending on the NC system (or its version), and some functions may not be possible.**

⚠ **Incorrect parameter settings may cause unforeseen machine operations.**
To change parameters, fully confirm the meaning of the parameters.

⚠ **Do not connect NC system to the Internet-connected network.**

⚠ **To protect the availability, integrity and confidentiality of the NC system against cyber-attacks including unauthorized access, denial-of-service (Dos) (*1) attack, and computer virus from external sources via a network, take security measures such as firewall, VPN, and anti-virus software.**
(*1) Denial-of-service (Dos) refers to a type of cyber-attack that disrupts services by overloading the system or by exploiting a vulnerability of the system.

⚠ **Mitsubishi Electric assumes no responsibility for any problems caused to the NC system by any type of cyber-attacks including DoS attack, unauthorized access and computer virus.**

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Outline

1.1 Outline of NC Configurator2

NC Configurator2 achieves the following functions for the multiple NCs connected to the network, or a file in the IC card or the local disk. Data from up to 8 machines can be handled at a time.

(1) NC Data : Transmit, display, edit and control the data related to the NC machine and parameters for NC control module side, and transmit, display the machining programs, tools and work.

(2) Function parameter : Support Parameter settings for individual NC function for the users.

(3) RS232C communication function : Offer various functions using the tape mode and serial communication.

1.2 Outline of Functions

No.	Function		Limited function version					Full function version				
			M8V/ M8/ E80	C80	M7/ E70	C70	M60/ M60S	M8V/ M8/ E80	C80	M7/ E70	C70	M60/ M60S
1	Parameter setting/Operation screen		○	○	○	○	○	○	○	○	○	○
2	Parameter search (Parameter No./Keyword search)		○	○	○	○	○	○	○	○	○	○
3	Help		○	○	○	○	○	○	○	○	○	○
4	Parameter modification history		○	○	○	○	○	○	○	○	○	○
5	Parameter	Input/output	○	○	○	○	○	○	○	○	○	○
		Comparison (online)	-	-	-	-	-	○	○	○	-	-
		Comparison (offline)	○	○	○	○	○	○	○	○	○	○
		Synchronization (online)	-	-	-	-	-	○	○	○	-	-
6	NC data (machining program/ common variables, etc.)	Input	○	○	○	○	○	○	○	○	○	○
		Output	-	-	-	-	-	-	-	-	-	-
		Edit (Machining program)	-	-	-	-	-	-	-	-	-	-
		Edit (Common variables, etc.)	-	-	-	-	-	-	-	-	-	-
7	Tape mode/Computer link B		-	-	○	-	○	-	-	○	-	○
8	Print		○	○	○	○	-	○	○	○	○	-
9	Display language (English/Chinese (Simplified Chinese)/Japanese)		○	○	○	○	○	○	○	○	○	○
10	Setup wizard (initial parameter setting)		-	-	-	-	-	○	○	○	○	-
11	Parameter conversion (M60/M60S -> M7/E70)		-	-	-	-	-	-	-	○	-	-
12	Parameter import (M7/E70 -> M8V/M8/E80)		○	-	-	-	-	○	-	-	-	-
13	Parameter import (C70 -> C80)		-	○	-	-	-	-	○	-	-	-
14	Function parameter	High-speed high-accuracy adjustment	-	-	-	-	-	○	○	○ (*1)	-	-
		Machining condition selection I	-	-	-	-	-	○	○	○ (*1)	-	-
		Soft limit	-	-	-	-	-	○	○	○	○	-
		Thread cutting	-	-	-	-	-	○	○	○	-	-
15	Adjustment function	Roundness adjustment	-	-	-	-	-	-	-	-	-	○
		High-speed high-accuracy adjustment	-	-	-	-	-	-	-	-	-	○
		Servo Adjustment	-	-	-	-	-	-	-	-	-	○

(*1)Not available for E70.

Inputting the product ID is required for the full function version.

Function limited version can only set user parameter.

1.3 Applicable Models and Versions

The CNC models and the version of the parameter and help guidance which can use this software are as follows.

1.3.1 Parameter

The CNC models and applicable version of the parameter are as follows.

<table>
<tr><th rowspan="2">NC Configurator2</th><th colspan="10">CNC</th></tr>
<tr><th>M800V/
M80V</th><th>M80/E80</th><th>M800</th><th>M70V/E70</th><th>M70</th><th>M700V</th><th>M700</th><th>C80</th><th>C70</th><th>M60</th></tr>
<tr><td>BND-1221W000-B0</td><td rowspan="11">-</td><td>-</td><td>A0</td><td rowspan="2">K2</td><td rowspan="2">FF</td><td rowspan="2">K2</td><td rowspan="2">FF</td><td rowspan="4">-</td><td>D9</td><td rowspan="11">CF</td></tr>
<tr><td>BND-1221W000-B1</td><td>A1</td><td>A1</td><td>DE</td></tr>
<tr><td>BND-1221W000-B2</td><td>A2</td><td>A2</td><td>K7</td><td>FG</td><td>K7</td><td>FG</td><td>DG</td></tr>
<tr><td>BND-1221W000-B3</td><td>B1</td><td>B1</td><td>L0</td><td>FH</td><td>L0</td><td>FH</td></tr>
<tr><td>BND-1221W000-B4</td><td>C1</td><td>C1</td><td>L2</td><td rowspan="5">FJ</td><td>L2</td><td rowspan="5">FJ</td><td>A0</td></tr>
<tr><td>BND-1221W000-B5</td><td rowspan="2">C3</td><td rowspan="2">C3</td><td rowspan="4">L4</td><td rowspan="4">L4</td><td>A1</td><td rowspan="4">DH</td></tr>
<tr><td>BND-1221W000-B6</td></tr>
<tr><td>BND-1221W000-B7</td><td>E0</td><td>E0</td><td>B2</td></tr>
<tr><td>BND-1221W000-B8</td><td>A1</td><td>F1</td><td>F1</td><td rowspan="2">B7</td></tr>
<tr><td>BND-1221W000-B9</td><td>A6</td><td>FA</td><td>FA</td></tr>
</table>

1.3.2 Help Guidance

(1) Japanese

<table>
<tr><th rowspan="2">NC Configurator2</th><th colspan="10">CNC</th></tr>
<tr><th>M800V/
M80V</th><th>M80/E80</th><th>M800</th><th>M70V/E70</th><th>M70</th><th>M700V</th><th>M700</th><th>C80</th><th>C70</th><th>M60</th></tr>
<tr><td>BND-1221W000-B0</td><td rowspan="11">-</td><td>-</td><td rowspan="3">A0</td><td rowspan="3">J1</td><td rowspan="3">FC</td><td rowspan="3">J1</td><td rowspan="3">FC</td><td rowspan="3">-</td><td rowspan="3">D4</td><td rowspan="11">CF</td></tr>
<tr><td>BND-1221W000-B1</td><td rowspan="2">A0</td></tr>
<tr><td>BND-1221W000-B2</td></tr>
<tr><td>BND-1221W000-B3</td><td>A4</td><td>A4</td><td rowspan="8">K1</td><td rowspan="8">K1</td><td rowspan="8">K1</td><td rowspan="8">K1</td><td rowspan="2">DD</td></tr>
<tr><td>BND-1221W000-B4</td><td rowspan="2">B2</td><td rowspan="2">B2</td><td>A4(M8)</td></tr>
<tr><td>BND-1221W000-B5</td><td rowspan="2">C1</td></tr>
<tr><td>BND-1221W000-B6</td><td>C1</td><td>A1</td></tr>
<tr><td>BND-1221W000-B7</td><td>D1</td><td>D1</td><td>B0</td></tr>
<tr><td>BND-1221W000-B8</td><td>A1</td><td>F1</td><td>F1</td><td rowspan="2">B7</td></tr>
<tr><td>BND-1221W000-B9</td><td>A3</td><td>F8</td><td>F8</td></tr>
</table>

(2) English

<table>
<tr><th rowspan="2">NC Configurator2</th><th colspan="10">CNC</th></tr>
<tr><th>M800V/
M80V</th><th>M80/E80</th><th>M800</th><th>M70V/E70</th><th>M70</th><th>M700V</th><th>M700</th><th>C80</th><th>C70</th><th>M60</th></tr>
<tr><td>BND-1221W000-B0</td><td rowspan="11">-</td><td>-</td><td rowspan="3">A0</td><td rowspan="3">J1</td><td rowspan="3">FC</td><td rowspan="3">J1</td><td rowspan="3">FC</td><td rowspan="3">-</td><td rowspan="3">D4</td><td rowspan="11">-</td></tr>
<tr><td>BND-1221W000-B1</td><td rowspan="2">A0</td></tr>
<tr><td>BND-1221W000-B2</td></tr>
<tr><td>BND-1221W000-B3</td><td>A4</td><td>A4</td><td rowspan="8">K1</td><td rowspan="8">K1</td><td rowspan="8">K1</td><td rowspan="8">K1</td><td rowspan="2">DD</td></tr>
<tr><td>BND-1221W000-B4</td><td rowspan="2">B2</td><td rowspan="2">B2</td><td>A4(M8)</td></tr>
<tr><td>BND-1221W000-B5</td><td rowspan="2">C1</td></tr>
<tr><td>BND-1221W000-B6</td><td>C1</td><td>A1</td></tr>
<tr><td>BND-1221W000-B7</td><td>D1</td><td>D1</td><td>B0</td></tr>
<tr><td>BND-1221W000-B8</td><td>A1</td><td>F1</td><td>F1</td><td rowspan="2">B7</td></tr>
<tr><td>BND-1221W000-B9</td><td>A3</td><td>F8</td><td>F8</td></tr>
</table>

(3) Chinese (Simplified Chinese)

<table>
<tr><th rowspan="2">NC Configurator2</th><th colspan="10">CNC</th></tr>
<tr><th>M800V/
M80V</th><th>M80/E80</th><th>M800</th><th>M70V/E70</th><th>M70</th><th>M700V</th><th>M700</th><th>C80</th><th>C70</th><th>M60</th></tr>
<tr><td>BND-1221W000-B0</td><td rowspan="10">-</td><td>-</td><td rowspan="3">K1(M7)</td><td rowspan="3">J1</td><td rowspan="3">FC</td><td rowspan="3">J1</td><td rowspan="3">FC</td><td rowspan="4">-</td><td rowspan="11">D4</td><td rowspan="11">CF</td></tr>
<tr><td>BND-1221W000-B1</td><td rowspan="2">K1(M7)</td></tr>
<tr><td>BND-1221W000-B2</td></tr>
<tr><td>BND-1221W000-B3</td><td>A1</td><td>A1</td><td rowspan="7">K1</td><td rowspan="7">K1</td><td rowspan="7">K1</td><td rowspan="7">K1</td></tr>
<tr><td>BND-1221W000-B4</td><td>A4</td><td>A4</td><td rowspan="3">A4(M8)</td></tr>
<tr><td>BND-1221W000-B5</td><td rowspan="2">B2</td><td rowspan="2">B2</td></tr>
<tr><td>BND-1221W000-B6</td></tr>
<tr><td>BND-1221W000-B7</td><td>D1</td><td>D1</td><td rowspan="3">B0</td></tr>
<tr><td>BND-1221W000-B8</td><td rowspan="2">F1(M8)</td><td rowspan="2">F1</td><td rowspan="2">F1</td></tr>
<tr><td>BND-1221W000-B9</td></tr>
</table>

1.3.3 Supported Drive Units/Motor Types

The drive units and motor types that are supported by this software are as follows:

Item		Supported series
Servo	Drive unit	MDS-E/EH, MDS-EM/EMH, MDS-EJ/EJH MDS-D2/DH2, MDS-DM2, MDS-DJ, MDS-D/DH, MDS-DM, MDS-D-SVJ3
	Motor type	HK/HK-H, HG/HG-H, HQ-H, HF/HF-H, HP/HP-H, HF-KP, HC-H, TM-RB, LM-F
Spindle	Drive unit	MDS-E/EH, MDS-EM/EMH, MDS-EJ MDS-D2/DH2, MDS-DM2, MDS-DJ, MDS-D, MDS-DM, MDS-D-SPJ3
	Motor type	SJ-D/DG/DJ/DL/DM/DN, SJ-V/VL, SJ-4-V, HG, HG-JR, HF, HF-KP, HF-SP

1.4 System Requirements

System requirements for NC Configurator2 is shown below.

Item	Description		
OS	Windows 11 (64bit version)	Windows 10 (32 bit version)	Windows 10 (64bit version)
CPU	1GHz or more	1GHz or more	1GHz or more
Memory	4GB or more	1GB or more	2GB or more
HDD/SSD capacity	1GB or more recommended		
Screen	Resolution: XGA (1024x768) or better		
Interface	RS232C, RJ45 (Ethernet), USB		

(Note) WOW64 (structure that operates 32 bit application by 64bit version OS) is used for 64bit version OS.

2

Installation and Setup

2.1 Preparation for PC Side

Item	Description
NC Configurator2	Install NC Configurator2.
LAN cable	When connecting NC (M8V Series, M8 series, E80, C80, M7/E70 series and C70) with Ethernet connection, connect PC and NC with a LAN cable.
USB cable	When connecting NC (C70) with USB connection, connect PC and GOT (or PLC CPU) with a USB cable. USB driver (GT Designer, add-on to GX Developer) appropriate for the connection configuration is required for USB cable connection.
RS232C cable	When connecting NC (M7/E70 series and M60/M60S series) with serial connection, connect PC and NC with a RS232C cable.

2.2 Installation Procedure

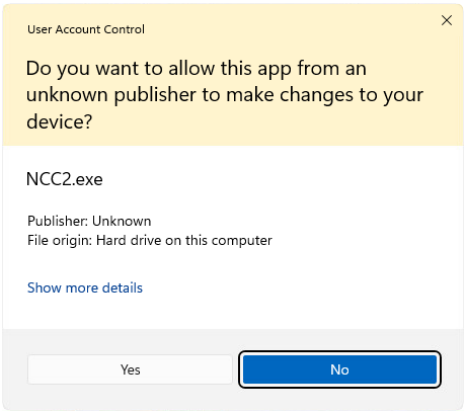
2.2.1 First Time Installation Procedure

(1) Double-click on NCC2.exe.

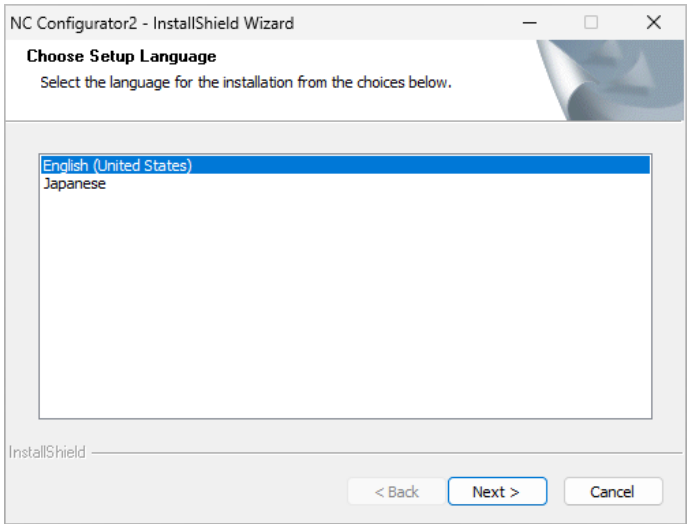
(Note 1) Stop antivirus software from running before installing NC Configurator2.

(Note 2) Install with a user that has administrator rights.

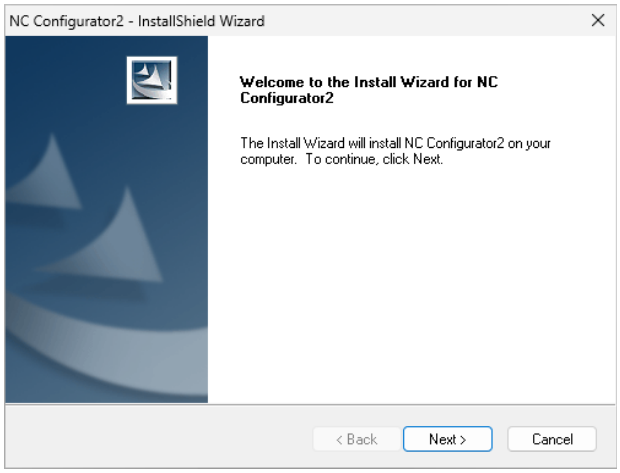
If the user account control function of Windows is valid, the confirmation screen appears (as shown below). Select [Yes] to start installation.



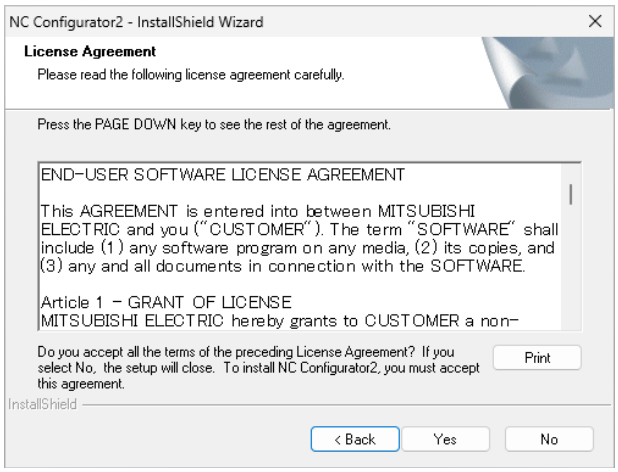
(2) Language selection screen will appear. Select the display language at the installation, and press [Next].



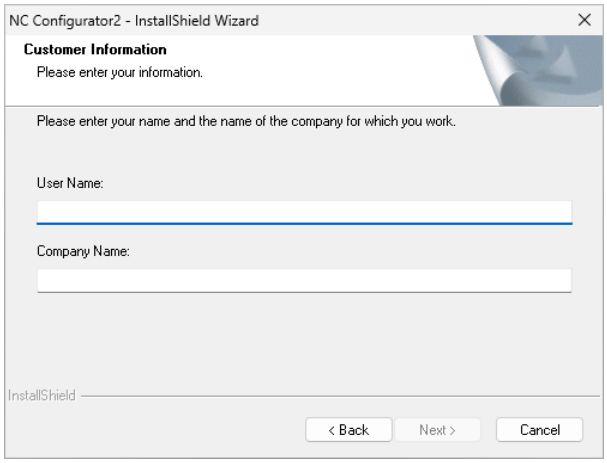
(3) Setup screen will be displayed. Press [Next].



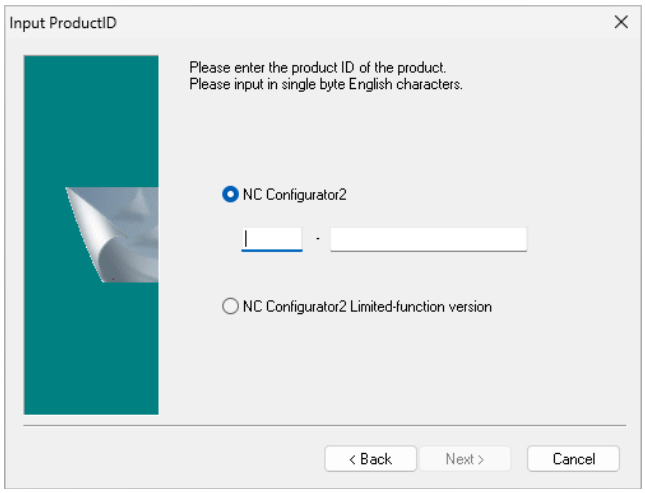
(4) "License Agreement" will be displayed.
Read the license agreement carefully. You must accept all the terms of the license agreement for the installation to continue. Press [Yes] to agree.



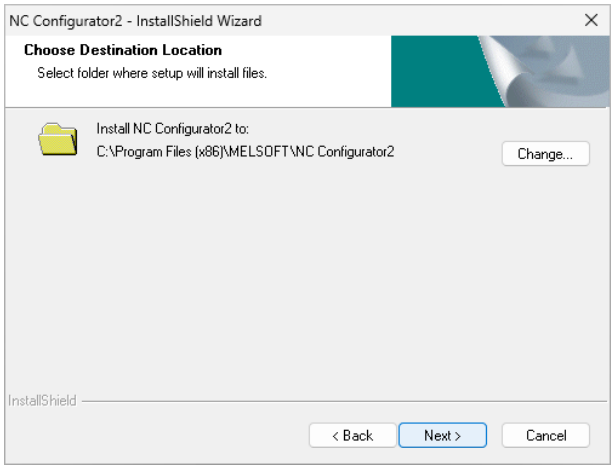
(5) "Customer Information" screen will be displayed. Enter user name and company name, and then press [Next].



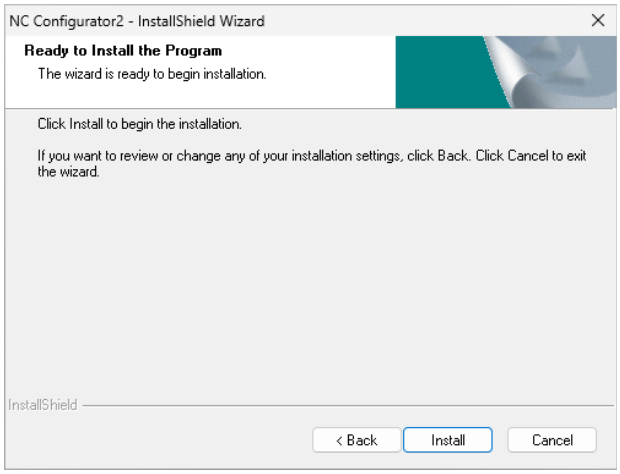
(6) "Input ProductID" screen will be displayed.
To use the full-function version, select "NC Configurator2", enter the product ID, and press [Next].
To use the limited-function version, select "NC Configurator2 Limited-function version" and press [Next].



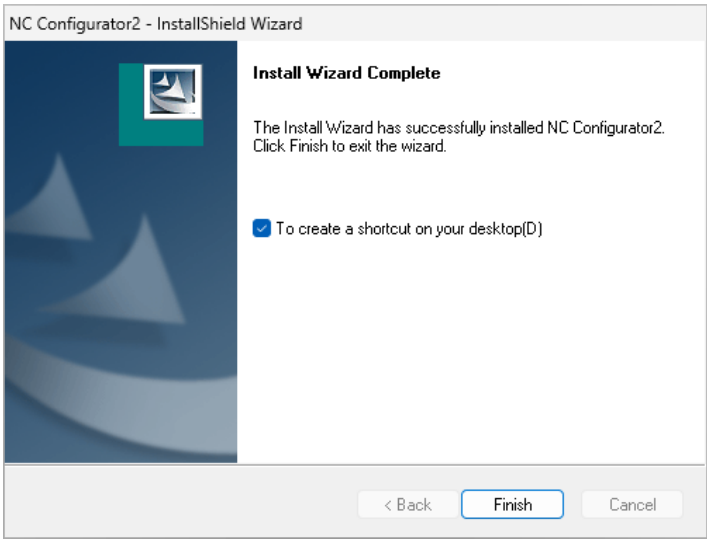
(7) Install destination selection screen will be displayed. Press "Change..." to select the installation destination if you change the installation destination. Press [Next] after setting the installation destination.



(8) Installation preparation screen will be displayed. Press [Install] to start the setup.



(9) Installation complete screen will be displayed. Press [Finish] to complete the installation.
Checking [To create a shortcut on your desktop (D)] creates a shortcut for NC Configurator2 on the desktop after the installation is completed.



For Windows 10, [NC Configurator2] will be added under [MELSOFT] in Windows [Start] menu. For Windows 11, [NC Configurator2] will be added in [All apps].

■ Considerations for installation

To install NC Configurator2, enable ".NET Framework 3.5 (includes .NET 2.0 and 3.0)" on the PC.
When ".NET Framework 3.5 (includes .NET 2.0 and 3.0)" is disabled, an error dialog appears and the installation is interrupted.

If the installation is interrupted, enable ".NET Framework 3.5 (includes .NET 2.0 and 3.0)" referring to the following procedure and install NC Configurator2 again.

[Installation with an internet connection]

(a) Confirm that the PC is ready to connect to the Internet.
(b) Select [All programs] - [Turn Windows features on or off] from the Control Panel.
(c) Check [.NET Framework 3.5 (includes .NET 2.0 and 3.0)] check box and click [OK] with the "Turn Windows features on or off" screen.
(d) Select [Download files from Windows Update].

[Installation with a DVD media for Windows® 11, or Windows® 10]

(a) Insert a DVD media to the DVD drive.
* Contact the manufacturer of the personal computer if you do not have a DVD media.
(b) Select [Open command prompt as administrator] from Explore.
(c) Execute the following command at Command Prompt.

Dism /online /enable-feature /featurename:NetFx3 /All /Source:x:\sources\sxs /LimitAccess

* Specify the drive letter of the DVD drive or installation media for Windows® 11, or Windows® 10 to "x:".

The following screen may be displayed while installing the software due to the specification changes in middleware.

Refer to the following technical bulletin for the details.
- Considerations for Installation Due to the Specification Changes in Middleware of a MELSOFT Product (FA-A-0301-A)

Refer to the following website for a technical bulletin.
https://www.mitsubishielectric.com/fa/index.html

2.2.2 Upgrading Procedure

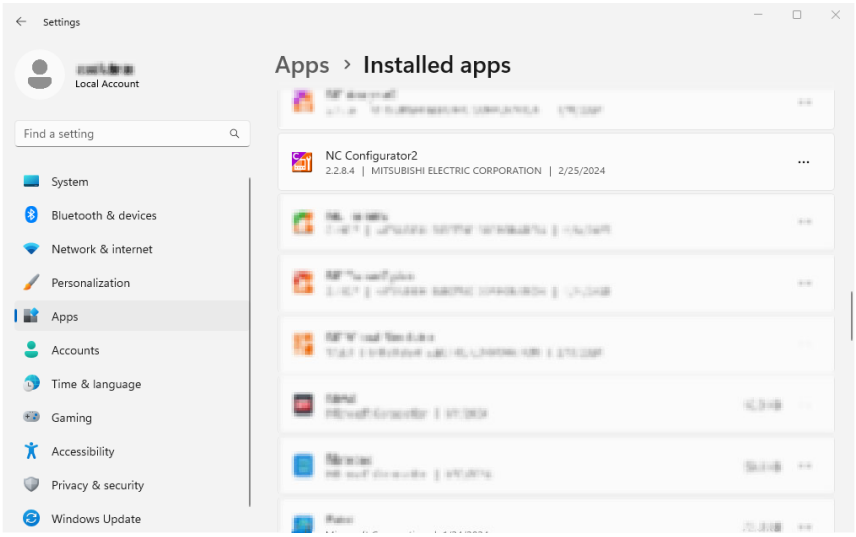
Uninstall the existing version first, and then install the latest version.
Stop antivirus software from running before installing the latest version.
Refer to "Appendix 1.1 Registration after Installation" if changing to the full function version from limited function version.

2.3 Uninstall Procedure

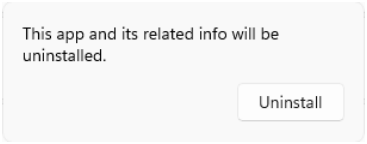
There are two ways to uninstall NC Configurator2; uninstall from [Settings] of Windows and the other is by double clicking on NCC2.exe.

2.3.1 Uninstall from [Settings]

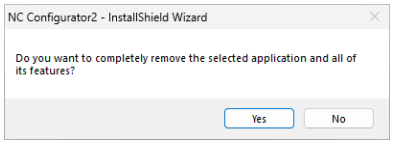
(1) In case of Windows 11, select [Start]-[Settings]-[Apps]-[Installed apps]. Press the menu button (three-dots) for NC Configurator2 and press [Uninstall] in the displayed list.
In case of Windows 10, select [Start]-[Settings]-[Apps]-[App&features]. Select NC Configurator2 in the displayed list and press [Uninstall].



(2) The message "This app and its related info will be uninstalled." will be displayed. Press [Uninstall].



(3) Deletion confirmation screen will be displayed. Press [Yes].

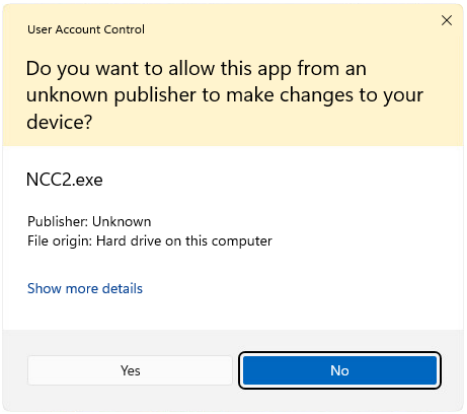


(4) When finished, NC Configurator2 is deleted from the list.

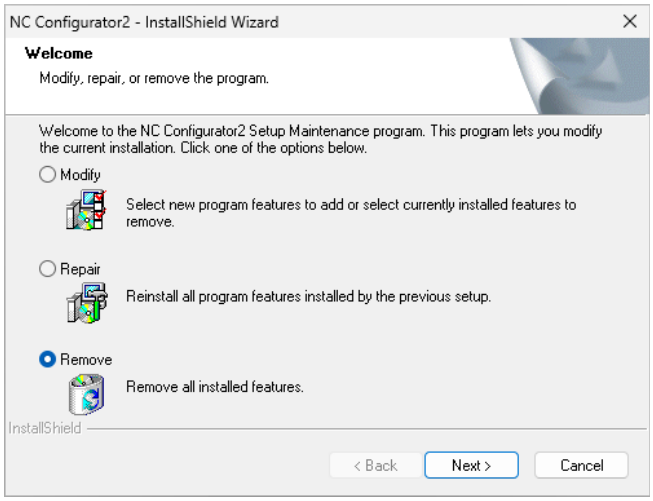
2.3.2 Uninstall by Double-clicking on NCC2.exe

(1) Double-click on NCC2.exe.

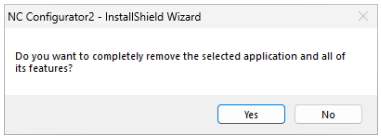
(Note) Uninstall with a user that has administrator rights.
If the user account control function of Windows is valid, the confirmation screen appears (as shown below).
Allow execution of NCC2.exe and start uninstallation.



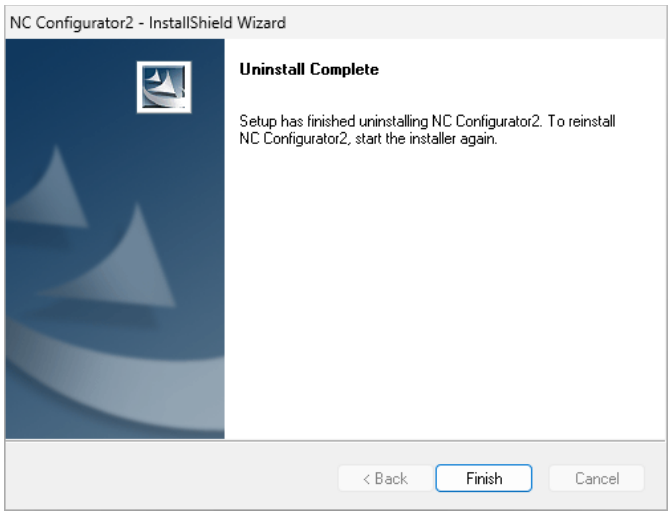
(2) The maintenance screen for the program will appear. Select [Remove] and press [Next].



(3) Deletion confirmation screen will be displayed.
Press [Yes] to start uninstallation.



(4) When finished, uninstallation complete screen will be displayed.
Press [Finish] to complete the uninstallation.



3

Operation Procedure

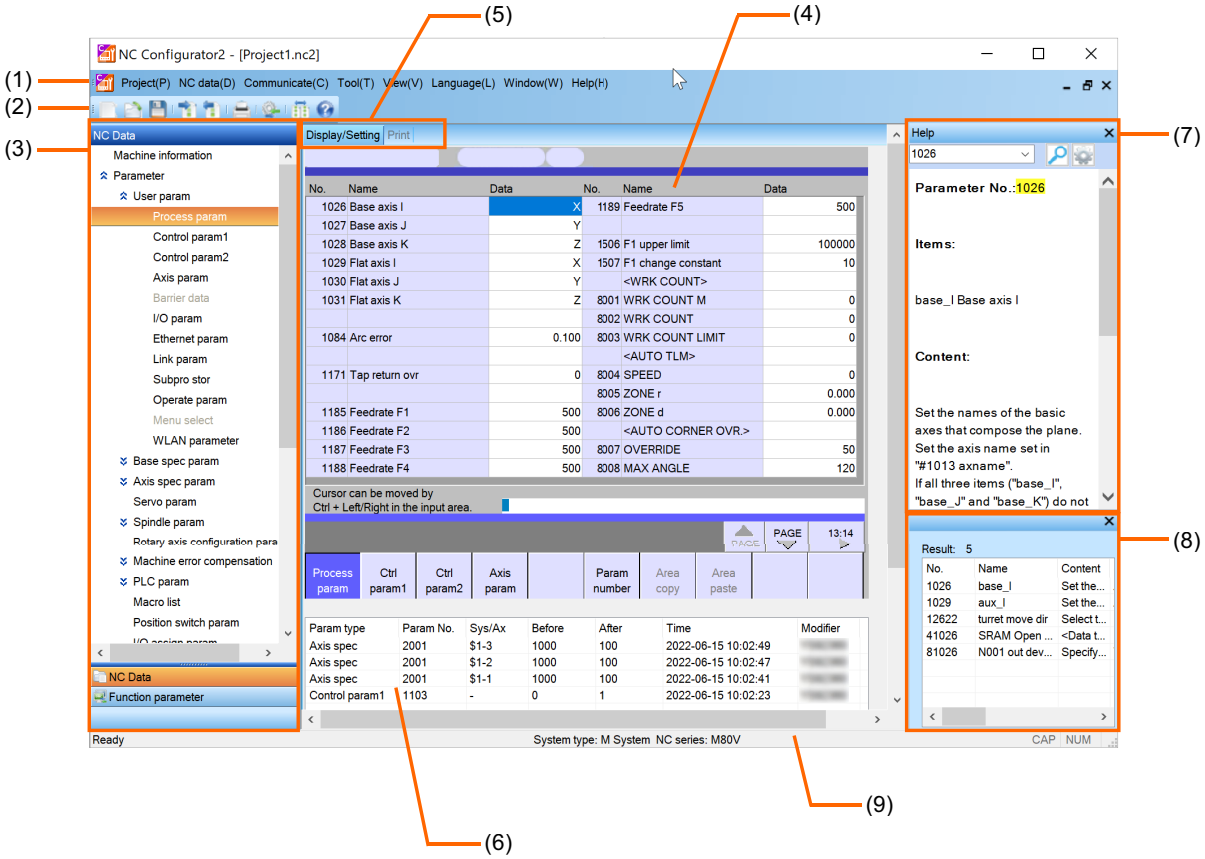
3.1 Project File

This tool manages data of NC such as parameter, machining program, work offset, system configuration and the machine tool related data with a dedicated project file (*.nc2).
Reading NC Configurator project file (*.ncp) and inputting the NC related individual data, as well as outputting NC parameters, can also be performed.

3.2 Explanation of the Screen

3.2.1 Screen Configuration

Screen



Display item		Description
(1)	Menu bar	Execute functions such as importing various CNC data and exporting parameters.
(2)	Tool bar	Execute some menu functions by pressing an icon on the tool bar.
(3)	Navigation window	Display NC Configurator2 project's data in tree format. Displayed items depend on NC model.
(4)	Main screen	Display the selected data with the navigation window. Set, print, and input/output data.
(5)	Tab	Switch the operation screen for target data with tab.
(6)	Parameter modification history	Display the modification history of parameter. Click on the history to display the appropriate parameter. Double-click on the history to select whether to restore the setting value.
(7)	Help window	Display the detailed help for the selected parameter.
(8)	Parameter search result list	Display the parameter related to the keyword.
(9)	Status bar	Display the status information such as NC model, system type, and supplementary information about menu.

3.2.2 Menu Configuration

Menu (M8V Series, M8 series, E80, C80, M7/E70 series, C70)

The display of the second menu from the left on the menu bar differs for M8V Series, M8 series, E80, C80, M7/E70 series and C70 project depending on the navigation window selection.

Menu			Description
Project	New		Create a new project.
	Open		Open an existing project.
	Online		Create a new project, and set the NC parameters directly. (Gray out for limited function version)
	Close		Close the project.
	Save		Overwrite the project.
	Save as		Save a project with a name.
	Import		Import data from external file to the project.
	Export parameter		Export parameters from the project.
	Export safety parameter		Export safety parameters from the project.
	Export parameter modification history		Export the parameter modification history displaying under the parameter screen.
	Output NC param as csv file		Output NC parameters from the project as csv format.
	Print		Print the project data.
	Exit		Exit NC Configurator2.
NC Data M8V : Variable M8 : Variable E80 : Variable C80 : Variable M7 : Variable E70 : Variable C70 : Variable	Machine information		Display and set the machine information.
	Parameter	Display_Setting	Display and set the parameters.
		Convert	Convert M60/M60S series parameters into M7/E70 series parameters. (Enabled for model M7/E70 and full function version)
		Print	Print some or all parameters.
	Tool life		Display and print the tool life management data. (Gray out for C70)
	Tool compensation		Display and print the tool compensation data.
	Common variable		Display and print the common variables.
	Work offset		Display and print the work offset data.
	Program		Display and print the machining program.
	System configuration		Display and print the system configuration. (Gray out for C70)
Tape mode M8V : Hide M8 : Hide E80 : Hide C80 : Hide M7 : Variable E70 : Variable C70 : Hide	Tape mode		Operate the tape mode by transferring the machining program stored in the local disk with RS232C.
	Standard RS232C communication		Input and Output the text data with RS232C.
Function parameter M8V : Variable M8 : Variable E80 : Variable C80 : Variable M7 : Variable E70 : Variable C70 : Variable	High-speed high-accuracy		Execute the high-speed high-accuracy adjustment by setting the related parameter. (M7, M system only and not displayed on C70) (Gray out for limited function version)
	Machining condition select I		Set the machining condition parameters for each machining application and condition. (M7, M system only and not displayed on C70) (Gray out for limited function version)
	Soft limit		Sets the soft limit related parameter. (Gray out for limited function version)
	Thread cutting		Sets the Thread cutting related parameter. (M8V/M8/E80/C80/M7/E70 series only) (Gray out for limited function version)
Communication	Read NC Data From NC		Read the NC data to the project.
	Write to NC(Parameter)		Write parameters of the project to NC.
	Communication settings		Set the communication connection setting.

Menu		Description
Tool	Options	Set the operation option to conveniently utilize NC Configurator2 as desired.
	Project Management	Display the project data state such as corrections, saved state, and data source, etc. Import the data or delete the data.
	Parameter comparison	Compare the parameters between two projects.
	Parameter initialization wizard	Carries out additional axis settings for active projects.
View	Tool bar	Select to display or hide the tool bar.
	Status bar	Select to display or hide the status bar.
	Navigation window	Select to display or hide the navigation window.
	Help window	Select to display or hide the help window.
Language	Japanese	Change display language to Japanese.
	English	Change display language to English.
	Chinese	Change display language to Chinese (Simplified Chinese).
Window	Close	Close the most front window.
	Close all	Close all windows.
	Tile horizontally	Display all open windows horizontally.
	Tile vertically	Display all open windows vertically.
Help	Version Information	Display the version information and user information.
	Register	Change limited function version to full function version.

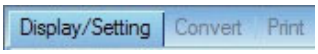
Menu (M60/M60S series)

Menu		Description
Project	New	Create a new project.
	Open	Open an existing project.
	Online	Create a new project, and set the NC parameters directly. (Gray out for limited function version)
	Close	Close the project.
	Save	Overwrite the project.
	Save as...	Save a project with a name.
	Import parameter...	Import parameters from external parameter file to the project.
	Export parameter...	Export parameters of the project.
	Exit	Exit NC Configurator2.
Parameter settings	Base spec param	Display and set the parameters.
	NC axis param	
	NC servo params	
	Spindle param	
	Er comp param	
	PLC param	
	Macro list	
	Posn switch param	
	Process param	
	I/O param	
	Anshin-net param	
Initial settings	Base system	Perform the initial setup for base system.
	Servo axis	Perform the initial setup for the servo axes.
	Servo drive unit	Perform the initial setup for the servo drive unit.
	Spindle drive unit	Execute the initial setup for the spindle drive unit.
Adjustment	Roundness	Perform the adjustment of roundness by setting the related parameter. (Gray out for limited function version)
	High-speed high-accuracy	Execute the high-speed high-accuracy adjustment by setting the related parameter. (Gray out for limited function version)
	Servo Adjustment	Perform the adjustment of servo by setting the related parameter. (Gray out for limited function version)

Menu			Description
Communicate	Communication settings		Perform the communication connection setting between PC and NC.
	Communication	Read parameter from NC	Read the parameters from NC.
		Write parameter to NC	Write the parameter from the project to NC.
		Parameter comparison	Compare the parameters between the project and NC.
		Reading NC Data from NC	Read the NC data from NC.
		Write NC Data to NC	Write the NC data from the project to NC.
		Read data from IC card	Read the data from IC card.
		Write data to IC card	Write the data from project to IC card.
Tool	Options		Set the operation option to conveniently utilize NC Configurator2 as desired.
	Project Management		Display the project data state such as corrections, saved state, and data source, etc. Import the data or delete the data.
View	Tool bar		Select to display or hide the tool bar.
	Status bar		Select to display or hide the status bar.
	Help window		Select to display or hide the help window.
Language	Japanese		Change display language to Japanese.
	English		Change display language to English.
	Chinese		Change display language to Chinese (Simplified Chinese).
Window	Close		Close the most front window.
	Close all		Close all windows.
	Tile horizontally		Display all open windows horizontally.
	Tile vertically		Display all open windows vertically.
Help	Version Information		Display the version information and user information.
	Register		Change limited function version to full function version.

3.2.3 Tab

Change the display of main screen with tab.



Example of M7 series

Navigation window	Function	Tab	Operation description
NC Data	Machine information	Display/Setting	Display the display/setting screen of the machine data.
	Parameter	Display/Setting	Display the display/setting screen of the parameters.
		Convert	Display the parameter conversion screen.
		Print	Display the print screen.
	Tool life Tool compensation Common variable Work offset Program System configuration	Display	Display the display screen of each function.
		Print	Display the print screen.
Standard RS232C communication_ Tape mode	Tape mode	Tape mode	Display the tape mode screen.
	Standard RS232C communication	Send text	Display the send text screen.
		Receive text	Display the receive text screen.
Function parameter	High-speed high-accuracy Machining condition selection I Thread cutting Soft limit	Display/Setting	Display the display/setting screen of each function.

4

Basic Operation

4.1 File Function

Up to eight projects can be displayed on the screen at a time.

4.1.1 Create a New Project

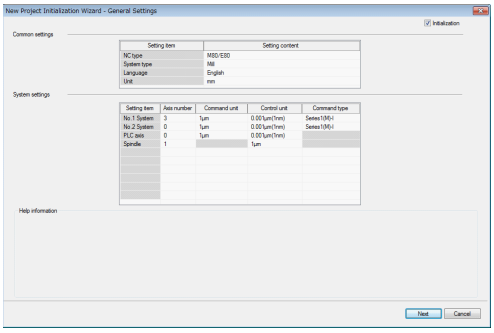
	M8V/M8/E80	C80	M7/E70	C70	M60/M60S
With initial setting	○	○	○	○	-
Without initial setting	○	○	○	○	○

Create a new project.

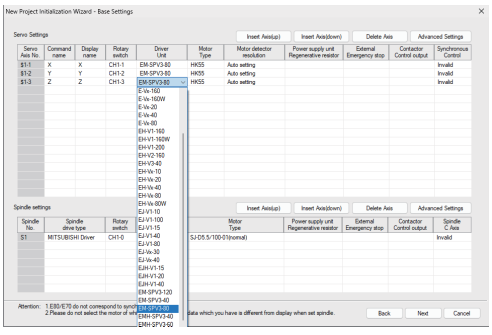
4.1.1.1 Create a New Project (with Initial Setting)

Operation method

(1) Select [New] in the Startup guidance or select [Project]-[New] from the menu. ➡ "General Settings" window appears.

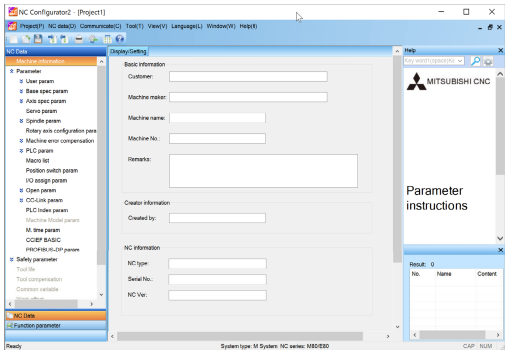


(2) Check "Initialization" check box and press [Next]. ➡ Moves to "Basic information" window.



Refer to "4.6 Wizard Function" for details.

(3) After entering various data, press [Finish]. ➡ A project file which includes the initial parameters is created.

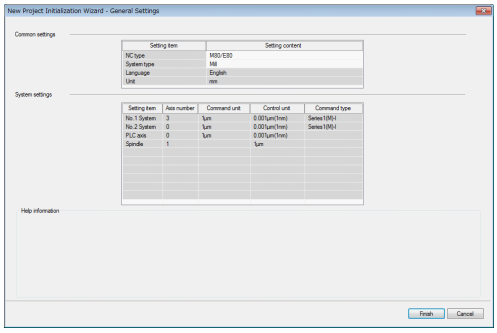


4.1.1.2 Create a New Project (without Initial Setting)

Operation method

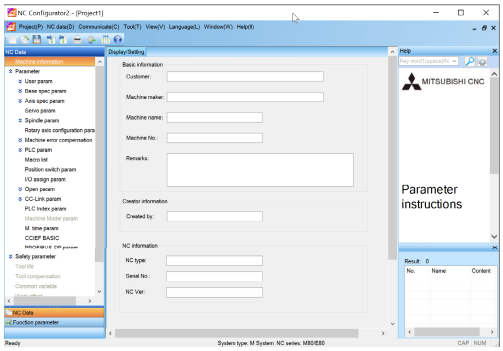
(1) Select [New] in the Startup guidance or select [Project]-[New] from the menu.

"New" window appears.



(2) Remove check from the check box of "Initialization" at the upper right side of the screen, and click "Finish".

A project file will be created.



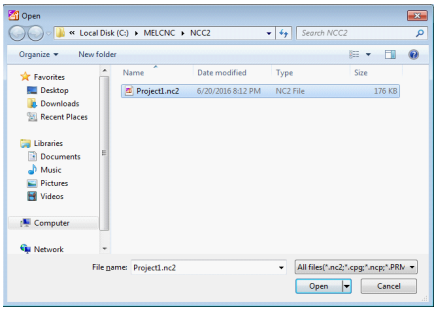
4.1.2 Open an Existing File

M8V/M8/E80	C80	M7/E70	C70	M60/M60S
○	○	○	○	○

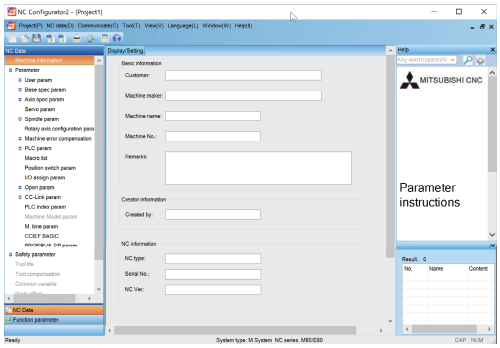
Open an existing project file or parameter file.
It is complied with NC Configurator2's project file (*.nc2) and NC Configurator's project file (*.ncp) formats.

Operation Method

(1) Select [Open] in the Startup guidance or select [Project]-[Open] from the menu. → "Open" window appears.



(2) Select an existing file or parameter file and press [Open]. → The project data will be read.



Caution

(1) Series name selection window appears for a project file (*.ncp) of NC Configurator. The ncp file can be opened only when specifying the same NC series type as the one which is used for the ncp file; however, when opening the project created with M70A/M70B, the ncp file can be opened with M700/M700V only.
(2) When opening a project created on an older version of NC Configurator2, the parameter data displayed on the [Display/Setting] screen is blank for the parameters added in the newer version.
(3) On C70, formats of common variables are different between NC Configurator and NC Configurator2. For that reason, projects that are saved by NC Configurator cannot be opened by NC Configurator2. In that case, move the common variable file [COMMON.VAR] to any place except for the project folder and open the project file again.
(4) It cannot open a project file named the same as that is already opened.

4.1.3 Open an Online Project

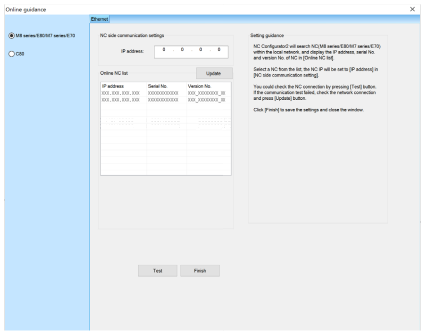
M8V/M8/E80	C80	M7/E70	C70	M60/M60S
○	○	○	-	-

Open a project which carries out real-time data updates of parameters, etc. for the NC connected to the network.
The destination NC is only the NC that belongs to the same network group as the one the personal computer is connected to.
The online function cannot be used between the NC and the NC Configurator2 project in a different network group.
Check the subnet mask to use the same network group. (Setting example: "255.255.255.0")
Also, it cannot activate multiple online projects at the same time to one NC.

Operation Method

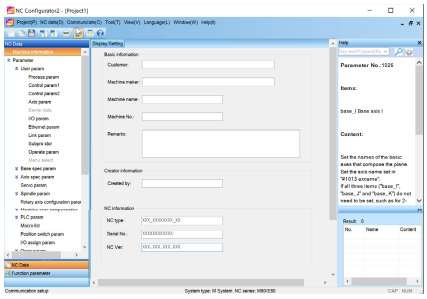
(1) Select [Online] in the Startup guidance or select [Project]-[Online] from the menu.

Online guidance starts.



(2) Select NC from the list and press [Finish].

A project file that read the online data is created.



Detailed Description

[series name/system type], [IP address of the access point] and [online status] are displayed on the title bar.
[Online] indicates communicating with NC or disappears when the communication is disconnected.

(1) When saving project during online, the name of the file will saved as default name "M70_L_n.nc2".
(2) When the online network connection is disconnected (or there is an application accessing the same communication destination within the network, or etc.), the title of the project window changes from "M70_L xxx.xxx.x.xx Online" to "M70_L_n xxx.xxx.x.xx". To restart the online function, carry out the online operation again.

"_n" part is counted when online project is created (1), or when project that is changed from online to offline is created (2).

Caution

(1) The following functions cannot be used online.
- Import
- Parameter conversion
- Read From NC and Write to NC
- Tool life, Tool Compensation, Common variable, Work offset, Print program.
  (Parameter and system configuration can be printed.)
- Project management
- Function parameter
- Safety parameter

(2) The data updated on NC is refreshed when the NC Configurator2 parameter screen is changed.

(3) When setting numerical parameter data to the CNC connected online, data that is cut off or rounded after the decimal point is set in accordance with the parameter data type.
After parameter data is set to the CNC, the [Display/Setting] screen is updated with the data set to the CNC.
(Example) For "#1171 Tap return override" (setting range: 0 to 100), the data after the decimal point is cut off because the parameter is integer type. When "1.9" is set, it is set as "1" on the CNC. Then "#1171" is updated with "1" on the [Display/Setting] screen.

4.1.4 Saving a Project

M8V/M8/E80	C80	M7/E70	C70	M60/M60S
○	○	○	○	○

Select [Project]-[Save] or [Save as] from the menu to save a project.

If opening multiple projects, the project data displayed in the most foreground is saved.

Caution

It cannot be saved with NC Configurator project file (*.ncp) format.

4.1.5 Importing NC Data

M8V/M8/E80	C80	M7/E70	C70	M60/M60S
○	○	○	○ *	○ *

* Partially possible. See the following data list for details.

Import the data file that is output from the NC side and create a project.

List of data that can be imported

Type	Format	M8V/M8/E80	C80	M7/E70	C70	M60/M60S
Parameter	*.PRM	○ (Note 1)	○ (Note 1)	○ (Note 1)	○ (Note 1)	○ (Note 1)
Safety parameter	*.BIN	○ (Note 2)	○ (Note 2)	-	-	-
Tool life	*.TLF	○	○	○	-	-
Tool compensation	*.OFS	○	○	○	○	-
All tool data	*.DAT	○ (Note 3)	○ (Note 3)	-	-	-
Common variable	*.VAR	○	○	○	○	-
Work offset	*.OFS	○	○	○	○	-
Program	*.PRG, *.TXT	○	○	○	○	-
System configuration	*.INF	○	○	○	-	-

(Note 1) Parameters can be imported to the project of the same system type.
The following table shows the projects that can be imported for each parameter file.

Project	Parameter file (model)						
	M80V/M80/E80	M800V/M800	M70/M70V/E70	M700/M700V	C80	C70	M60
M80V	○	×	○	×	×	×	×
M80/E80	○	×	○	×	×	×	×
M800V	○	○	×	○	×	×	×
M800	○	○	×	○	×	×	×
M70/E70	×	×	○	×	×	×	×
M70	×	×	○	×	×	×	×
M700V	×	×	×	○	×	×	×
M700	×	×	×	○	×	×	×
C80	×	×	×	×	○	○	×
C70	×	×	×	×	×	○	×
M60	×	×	×	×	×	×	○

○: Can be imported ×: Cannot be imported

(Note 2) Safety parameters can be imported to the project of the same system type.
The following table shows the projects that can be imported for each safety parameter file.

Project	Safety parameter file (model)		
	M80V/M80/E80	M800V/M800	C80
M80V	○	×	×
M80/E80	○	×	×
M800V	×	○	×
M800	×	○	×
C80	×	×	○

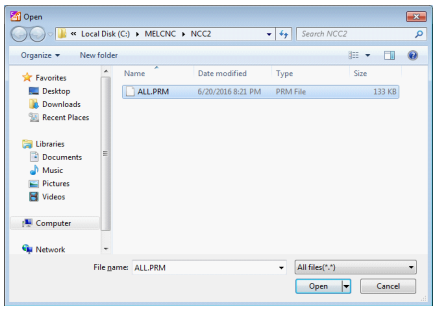
○: Can be imported ×: Cannot be imported

(Note 3) When importing the all tool data, the tool life data and the tool compensation data are imported.

Operation Method

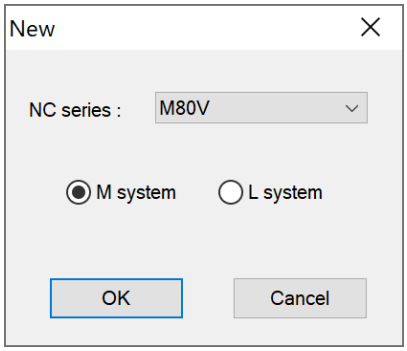
(1) Select [Project]-[Import] from the menu.

"Open" window appears.



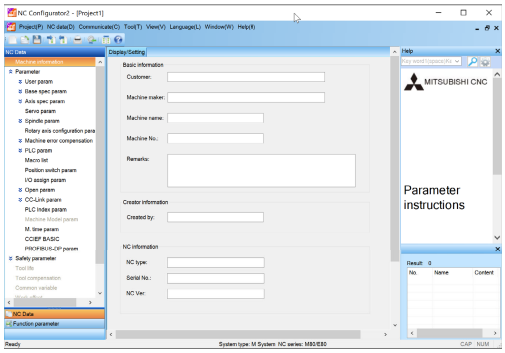
(2) Select a file and press [Open].

"New" window appears.
The window is not displayed in the cases below;
(*1) When importing the parameter (the NC series and system type are automatically determined)
(*2) When importing the tool life data or all tool data (a new project of M80V/M80/E80 M system is created)
(*3) When importing the tool compensation, the common variable, or the work offset data (a new project of M80V/M80/E80 M system or C70 M system is created)
(*4) If there is an active project
(*5) When importing the safety parameter (the NC series is automatically determined)



(3) Select the NC series and press [OK].

A project file with imported data is created.
(If there is an active project, the data is imported to it.)



Caution (with an active project)

(1) The parameters of the active project are overwritten. The NC data which related to the parameters may be changed by the imported parameters.
(2) If the series type or system type is different, the parameter data cannot be imported. An import failure message will appear, and the project will not be changed.
(3) If importing a machining program, a machining program is added instead of updating the existing program in the project. (If the same file name exists, confirmation of overwriting is prompted.)
(4) This function cannot be used online.
(5) The common variable data of C70 can be imported to the project of M8V Series/M8 Series/E80/C80/M7 series/E70 with NC Configurator2. Also the common variable data of M8V Series/M8 Series/E80/C80/M7 series/E70 can be imported to the project of C70. However, the common variable data of M8V Series/M8 Series/E80/C80/M7 series/ E70 cannot be imported to C70 and vice versa on an NC machine.

Caution (without an active project)

(1) If opening the NC data file created with NC Configurator M70A/M70B, it can be opened by M7/E70 series.
(2) When editing the parameter file manually and then importing it to NC Configurator2, the model to input the parameter may do not match the project model which is automatically determined at import. In this case, the models may be matched by creating new project of the required model beforehand and then importing it.

Caution

(1) The number of sets of NC data (common variables, tool compensation, tool life, and work offset) imported or read from NC is directly displayed on NC Configurator2. Therefore, all the information set on NC can be seen regardless of the number of part systems or parameter setting which is set on the current project.
(2) When a common setting for part systems are changed by "#1052 MemVal (No. of common variables shared in part system designation)", "#1303 V1comN (No. of #100 address part system common variables)", "#1304 V0comN (No. of #500 address part system common variables)", etc., [*] is attached after the variable name such as "100 *" for each part system on NC screen, however, [*] is not attached on NC Configurator2.
On NC Configurator2, the variable which is set to be common for part systems above mentioned and variables for #100100 to #800199 displayed when "#1316 CrossCom (Reference of common variables common for part systems)" is "1" are displayed on the 1st part system screen, but are omitted from the 2nd and subsequent part system screens.
(3) If you export the parameter of project created without initial setting on an older version of NC Configurator2, and then import it to the newer version of NC Configurator2, an import error may occur. In this case, open the parameter file to add the parameter setting displayed on the error message and then import again.
(4) When importing parameter files that were exported from an older version of NC Configurator2 to a project that was created on a newer version of NC Configurator2, the parameter data displayed on the [Display/Setting] screen is blank for the parameters added in the newer version.
(5) For M60/M60S, parameter files cannot be imported when "#1218 aux02/bit3" (Parameter input/output format) is "1". To import parameter files for M60/M60S, set the value of "#1218 aux02/bit3" to "0".

4.1.6 Exporting the NC Parameters

M8V/M8/E80	C80	M7/E70	C70	M60/M60S
○	○	○	○	○

Export the parameter data from a project to create a parameter file that can be input into the NC side.
To save the parameter, select [Project]-[Export parameter] from the menu.

List of data that can be exported

File name	File contents	M8V/M8/E80	C80	M7/E70	C70	M60/M60S
ALL.PRM	Parameter	○	○	○	○	○

Caution

(1) Parameter files exported from NC Configurator2 are "Type I" regardless of whether the input/output format (#1218 aux02/bit3) setting of the parameter files imported from the CNC is "Type I" or "Type II"

4.1.7 Exporting the Safety Parameters

M8V/M8/E80	C80	M7/E70	C70	M60/M60S
○	○	-	-	-

Export the safety parameter data from a project to create a parameter file that can be input into the NC side.
To save the parameter, select [Project]-[Export safety parameter] from the menu.

List of data that can be exported

File name	File contents	M8V/M8/ E80	C80	M7/E70	C70	M60/M60S
SAFEPARA.BIN	Safety parameter	○	○	-	-	-

4.1.8 Output NC Parameter (CSV File Format)

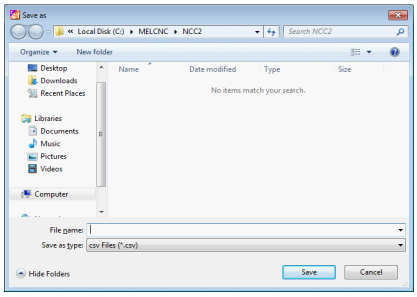
M8V/M8/E80	C80	M7/E70	C70	M60/M60S
○	○	○	○	-

Output NC parameter with CSV file format.

Operation Method

(1) Select [Project]-[Output NC param as csv file] from the menu.

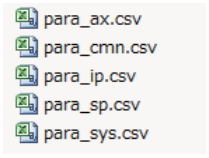
"Save as" window appears.



(2) Specify the file name, and press [Save].

The file will be created to the specified output destination.

Example when a file is named as "para"
A separate file is created for each type of parameter for csv format.



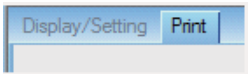
4.1.9 Print

M8V/M8/E80	C80	M7/E70	C70	M60/M60S
○	○	○	○	-

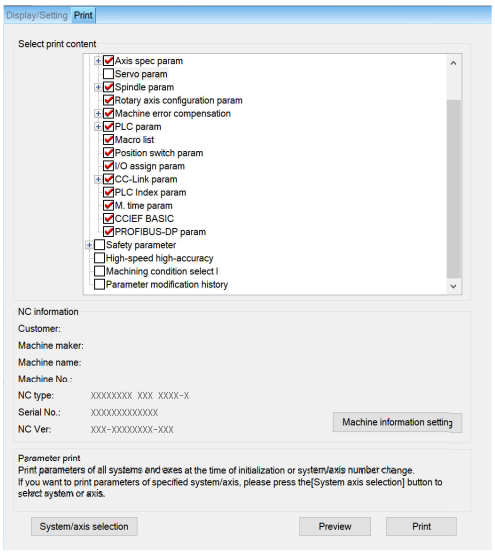
Print one of the data from parameter type, tool life, tool compensation, common variable, work offset, program, system configuration, Machining Condition Selection I, safety parameter and high speed high accuracy.
More than one type of data cannot be printed at a time.

Operation Method

(1) Select [Project]-[Print] from the menu or [Parameter print] tab.



→ Print screen will be displayed.



(2) Select the item to print and press [Print]. → Data will be printed with the specified condition.

Caution

(1) Characters exceeding the maximum number of display characters on a printing paper may not be printed.

4.2 Parameter Management

M8V/M8/E80	C80	M7/E70	C70	M60/M60S
○	○	○	○	○

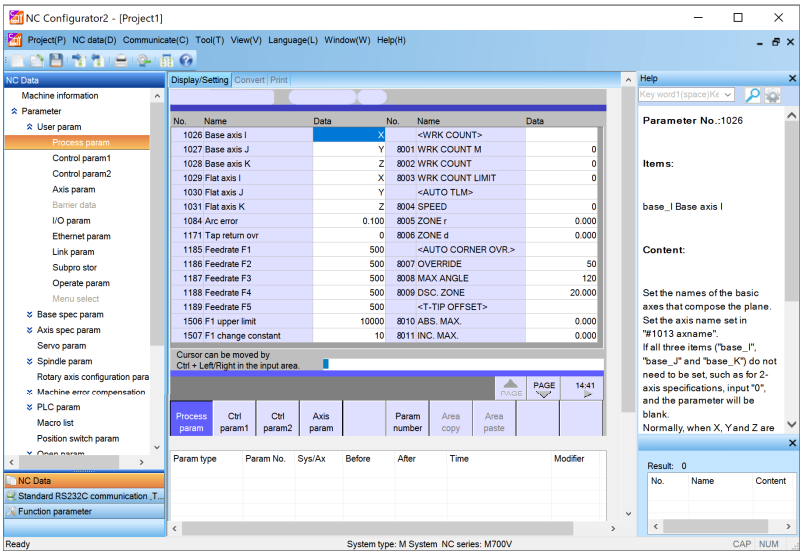
Select [Parameters] in the navigation tree to display the parameter screen.
The parameter screen consists of [Display/Setting], [Convert] and [Print], and can be changed with tab selection.

Tab display list by series

Tab name	M8V/M8/E80	C80	M7/E70	C70	M60/M60S
Display/Setting	○	○	○	○	○
Convert	-	-	○	-	-
Print	○	○	○	○	-

Example of M7 series

Display by classification
Select the parameter from [Classification] in the navigation tree.



4.2.1 M8V Series, M8 Series, E80, C80, M7/E70 Series Parameters

Detailed Description

(1) Number of part systems

Set it in the parameter "#1001 SYS_ON (System validation setup)".

M800V/M800

#	Setting value	Part system
1001	1, 0, 0, 0, 0, 0, 0, 0	1 part system
	1, 0, 0, 0, 0, 0, 0, 1	1 part system + PLC system
	1, 1, 0, 0, 0, 0, 0, 0	2 part systems
	…	…
	1, 1, 1, 1, 1, 1, 1, 0	8 part systems
	1, 1, 1, 1, 1, 1, 1, 1	8 part systems + PLC system

M80V/M80/E80

#	Setting value	Part system
1001	1, 0, 0, 0, 0	1 part system
	1, 0, 0, 0, 1	1 part system + PLC system
	1, 1, 0, 0, 0	2 part systems
	:	…
	1, 1, 1, 1, 0	4 part systems
	1, 1, 1, 1, 1	4 part systems + PLC system

C80

#	Setting value	Part system
1001	1, 0, 0, 0, 0, 0, 0, 0	1 part system
	1, 0, 0, 0, 0, 0, 0, 1	1 part system + PLC system
	1, 1, 0, 0, 0, 0, 0, 0	2 part systems
	:	:
	1, 1, 1, 1, 1, 1, 1, 0	7 part systems
	1, 1, 1, 1, 1, 1, 1, 1	7 part systems + PLC system

M700/M700V

#	Setting value	Part system
1001	1, 0, 0, 0, 0	1 part system
	1, 0, 0, 0, 1	1 part system + PLC system
	1, 1, 0, 0, 0	2 part systems
	1, 1, 1, 0, 0	3 part systems
	1, 1, 1, 1, 0	4 part systems
	1, 1, 1, 1, 1	4 part systems + PLC system

M70/M70V/E70

#	Setting value	Part system
1001	1, 0, 0	1 part system
	1, 0, 1	1 part system + PLC system
	1, 1, 0	2 part systems
	1, 1, 1	2 part systems + PLC system

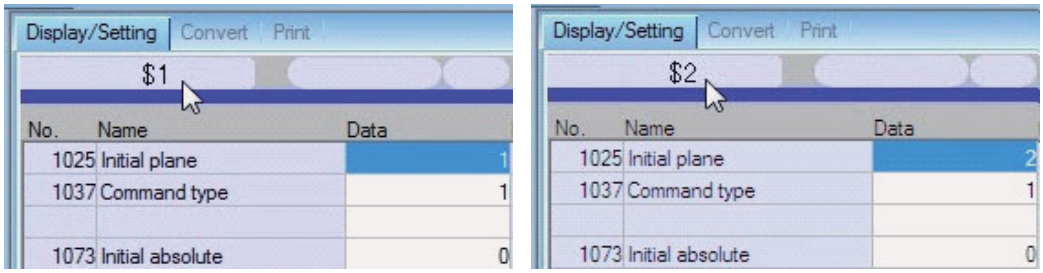
For multi part systems, switch the screen between the part systems by clicking the name of the part system on the top left of the screen.
The name set in "#1169 system name" is displayed for the name of the part system. Following is displayed if nothing is set in the parameter.

$1: Parameter screen for 1st part system

$2: Parameter screen for 2nd part system

…

$8: Parameter screen for 8th part system



(2) Number of axes
Set it in the parameter "#1002 axisno".

(3) Number of spindles
Set it in the parameter "#1039 axisno".

(4) How to display/hide some parameters differs depending on the related parameter settings.

Parameter name	Related parameter	
Barrier data	#1007 System type select	(M8V Series, M8 series, E80, C80, M7, E70 Series only)
Menu selection	#11032 Menu sel para lkof	
Open parameter	#11003 APLC valid	
Spindle parameter Spindle-type servo parameter	#1039 spinno #3139 sp_srvdrv	(M8V Series, M8 series, E80, C80 only)
Machine model parameter	#1007 System type select	(M8V Series, M8 series, E80 only)
Position switch PLC	#1001 SYS_ON	(C80 only)

(5) Note that the setting of the following C70 parameters are not taken over when the parameters are imported to C80 project.

# Parameter No.	Parameter name
1016	iout Inch output
1060	SETUP Activate setup processing
1065	JOG_H JOG response type
1066	JOG_HP Select JOG activation (+) device
1067	JOG_HN Select JOG activation (-) device
1071	JOG_D JOG activation signal device name
1089	Cut_RT
1090	Lin_RT
1131	Fldcc
1150	Fldc0
1152	I_G20 Initial command unit
1173	dwlskp G04 skip condition
1175	G31.1 skip condition
1177	G31.2 skip condition
1179	G31.3 skip condition
1193	inpos Validate in-position check
1211	FHtyp Feed hold stop type
1212	FHno Feed hold external signal device
1323	chopsel Chopping command method
1368	SfAlmRstD Safety observation alarm reset inputting device

# Parameter No.	Parameter name
1383	Alm1DBord Alarm displaying threshold (1D)
1384	Alm1FBord Alarm displaying threshold (1F)
1385	Alm2DBord Alarm displaying threshold (2D)
1386	Alm2FBord Alarm displaying threshold (2F)
1387	Alm41Bord Alarm displaying threshold (41)
1388	Alm42Bord Alarm displaying threshold (42)
1567	mill_err Error between linear axis and rotary axis center
1801	Hacc_c Arc radius clam acceleration
1802	Macc_c Acceleration check at middle speed
1803	Lacc_c Acceleration check at low speed
1811	Hcof_A X-axis high acceleration coefficient β
1812	Hcof_B X-axis high acceleration coefficient α
1813	Mcof_A X-axis middle acceleration coefficient β
1814	Mcof_B X-axis middle acceleration coefficient α
1815	Lcof_A X-axis low acceleration coefficientβ
1816	Lcof_B X-axis low acceleration coefficientα
1817	mag_C X-axis change magnification θ [%]
1821	Hcof_A Y-axis high acceleration coefficient β
1822	Hcof_B Y-axis high acceleration coefficient α
1823	Mcof_A Y-axis middle acceleration coefficient β
1824	Mcof_B Y-axis middle acceleration coefficient α
1825	Lcof_A Y-axis low acceleration coefficient β
1826	Lcof_B Y-axis low acceleration coefficient α
1827	mag_C Y-axis change magnification θ [%]
2052	absg28 Width compared by G28
2053	absm02 Width compared by M02
2116	v_axis Hypothetical axis
2117	v_axno Hypothetical axis No.
2118	S_DSI Speed monitor Door selection
2179	TapInpl In-position width for Tapping initial point
2180	S_DIN Speed monitor input door No.
2181	sscfeed1 Safety observation speed 1
2182	sscfeed2 Safety observation speed 2
2183	sscfeed3 Safety observation speed 3
2184	sscfeed4 Safety observation speed 4
2605	BR_SIG Brake output signal number
2606	BR_WT Brake test command waiting time
2607	BR_Ilim Brake test current limit value
2608	BR_Ft Brake test travel amount
2609	BR_Feed Brake test command speed
2610	BR_Tol Brake test tolerance of motor travel amount
2611	BR_ObT Brake test observation time
2612	SosTolD Stop observation tolerable positioning deviation amount
2613	SosAlmT Stop observation error detection time
3071	SscDrSelSp Speed monitor Door selection
3075	SosTolDsp Stop observation positioning tolerance deflection
3076	SosAlmTsp Stop observation error detection time
3140	S_DINSp Speed monitor input door No.
3141	spsscfeed1 Safety observation speed 1
3142	spsscfeed2 Safety observation speed 2
3143	spsscfeed3 Safety observation speed 3
3144	spsscfeed4 Safety observation speed 4
10015	rotabsrev: Rotational machine position compensation
12015	v_dist Hypothetical axis tool length
12016	v_ori Hypothetical axis machine zero point
12017	ofsang Actual rotary axis compensation angle
12018	ClAng1 Angle 1 in conversion
12019	ClAng2 Angle 2 in conversion

# Parameter No.	Parameter name
12020	r_lim+ Actual axis movable range (+)
12021	r_lim- Actual axis movable range (-)
21025	SmpDelay
21028	ed_mess
21029	Ncname
21030	AlmHold (h)
21031	UnitMax
21032	UnitNum
21033	KeyCtrlLmt
21034	ReMonDisp
21037 to 21043	High-speed program server mode Parameters
21049	SPname
21050	plcdwlskp G04 skip condition
21051	plcskip1 G31.1 skip condition
21052	plcskip2 G31.2 skip condition
21053	plcskip3 G31.3 skip condition
21101 to 21124	add01 to add24
21125 to 21163	Safety observation function Parameters
21164	BR_INT Brake test interval
22011	bscmp- Offset compensation position
22012	bscmp+ Max. compensation position
22013	synwd
22014	Mastno Multi-secondary-axis sync primary axis number
26701 to 26742	Multi-CPU Parameters
27000 to 27072	N code macro Parameters
28301 to 28700	Cycle monitor Parameters
29001 to 29037	FL-net Parameters
29041 to 29087	DeviceNet Parameters

Operation Method

(1) Moving the cursor
Use the [↑], [↓], [←], and [→] keys to move it up, down, left, and right.

(2) Copying and pasting by column
Data can be copied and pasted per column.
All parameters of the same column can be selected by right clicking on the data to copy and select [Column copy].
All axis parameters can be copied by selecting and right clicking on the data to be pasted and select [Column paste].
The selected state display is canceled by pressing [ESC] key.

(3) Copying and pasting by area
A part of data displayed on screen can be area copied and pasted.
Specify the range of data to copy, right-click and select [Area copy].
Select any of the copy destination data, right-click and select [Area paste], and then the data will be copied to the same parameter.
Up to 15 parameter data can be copied at a time.
It can also be copied by the [Area copy] and [Area paste] buttons at the bottom of the screen.
The selected state display is canceled by pressing [ESC] key.

(4) Multiple data batch input
Enter the data of multiple part systems or axes of the same parameter No. with each data delimited by slash ("/") to perform batch input.
Example) To set the 1st part system of "#1003 iunit (Input setup unit)" to "B" and the 2nd part system to "C", move the cursor to "#1003 (Input setup unit)" and then enter "B/C".

(5) Axis batch copy / paste
Target parameter data of one of servo axes (NC and PLC axes) or spindles can be copied and pasted within a project or between projects.
All axis-related parameters of the same column can be selected by right clicking on the data to copy and selecting [Axis batch copy].
A confirmation message "Copy axis data "<copy source>" to "<copy destination>", OK?" is displayed by right clicking on the copy destination data and selecting [Axis batch paste]. All data are copied by selecting [Yes].
The selected state display is canceled by pressing [ESC] key.
Axis batch copy can be selected on a screen of axis-related parameters.
If you are on the parameter screen of an axis that is different from that you have chosen for Axis batch copy, you cannot use Axis batch paste.

Caution

(1) The setting range of the input data is not checked. To avoid setting the illegal value, check the setting range in "Detailed help" carefully when setting the data.

(2) When the number of characters of the setting range displayed in Help is 27 characters or less, up to 27 characters can be input. When the number of characters of the setting range displayed in Help is 28 characters or more, up to 48 characters can be input.

(3) Settings related to the formatting of the tool compensation and tool life with the value of the parameter "#1041 I_inch (Initial inch)" are not supported. The judgment of whether the parameters "#8026 CANCEL ANG. (for M system only)" and "#8027 Toler-1 (for M system only)" can be set with the value of the parameter "#8019 R COMP" is not supported.

(4) The parameters #18151 to #18900 displayed on the screen are dependent on the setting of the parameter "#1326 PLC Const Ext. Num (PLC constant extension number)", but the range check and parity check for the parameter #1326 are unavailable.

(5) Wireless LAN parameter "#75007 Encryption key" (for M8V only) cannot be set. When printed, both the parameter name and value are not output.

4.2.2 C70 Parameters

Detailed Description

(1) Number of part systems

Set it in the parameter "#1001 SYS_ON".

#	Setting value	Part system
1001	1, 0, 0, 0, 0, 0, 0, 0	1 part system
	1, 0, 0, 0, 0, 0, 0, 1	1 part system + PLC system
	1, 1, 0, 0, 0, 0, 0, 0	2 part systems
	1, 1, 1, 0, 0, 0, 0, 0	3 part systems
	:	:
	1, 1, 1, 1, 1, 1, 1, 1	7 part systems + PLC system

For multi part systems, switch the screen between the part systems by clicking the name of the part system on the bottom left of the screen.

1: Parameter screen for 1st part system
2: Parameter screen for 2nd part system
:
7: Parameter screen for 7th part system

(2) Number of axes

Set it in the parameter "#1002 axisno".

(3) Number of spindles

Set it in the parameter "#1039 axisno".

Operation Method

(1) Moving the cursor

Use the [↑], [↓], [←], and [→] keys to move it up, down, left, and right.

(2) Column copy and pasting

Data can be copied and pasted per column.

All axis parameters can be selected by right clicking on the data to copy and select [Column copy].

All axis parameters can be copied by selecting and right clicking on the data to be pasted and select [Column paste].

The selected state display is canceled by pressing [ESC] key.

(3) Area copy and paste

A part of data displayed on screen can be area copy and paste.

Right click the data to copy and select [Area copy].

Data can be copied by select and right click on the data to be pasted and select [Area paste], and data will be copied to same parameter.

Up to 15 parameter data can be copied at same time.

It can be copied by button [Area copy] and [Area paste] at bottom of the screen.

The selected state display is canceled by pressing [ESC] key.

(4) Axis batch copy / paste
Target parameter data of one of servo axes (NC and PLC axes) or spindles can be copied and pasted within a project or between projects.
All axis-related parameters of the same column can be selected by right clicking on the data to copy and selecting [Axis batch copy].
A confirmation message "Copy axis data "<copy source>" to "<copy destination>", OK?" is displayed by right clicking on the copy destination data and selecting [Axis batch paste]. All data are copied by selecting [Yes].
The selected state display is canceled by pressing [ESC] key.
Axis batch copy can be selected on a screen of axis-related parameters.
If you are on the parameter screen of an axis that is different from that you have chosen for Axis batch copy, you cannot use Axis batch paste.

Caution

(1) The setting range of the input data is not checked. To avoid setting the illegal value, check the setting range in "Detailed help" carefully when setting the data.
(2) Settings related to the formatting of the tool compensation and tool life with the value of the parameter "#1041 I_inch (Initial inch)" are not supported.
The judgment of whether the parameters "#8026 CANCEL ANG. (for M system only)" and "#8027 Toler-1 (for M system only)" can be set with the value of the parameter "#8019 R COMP" is not supported.
(3) When using Axis batch copy and paste to copy servo axis related parameters of a C70 project, the C70 PLC axis index parameters are not copied.

4.2.3 M60/M60S Series Parameters

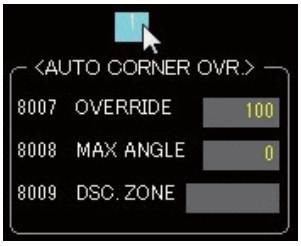
Detailed Description

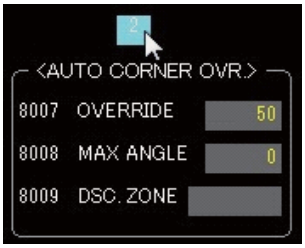
(1) Number of part systems

Set it in the parameter "#1001 SYS_ON".

#	Setting value	Part system
1001	1, 0, 0,	1 part system
	1, 0, 1	1 part system + PLC system
	1, 1, 0	2 part systems
	1, 1, 1	2 part systems + PLC system

Display the part system number in the line where the axis name is displayed for the multi part systems.





(2) Number of axes

Set it in the parameter "#1002 axisno".

(3) Number of spindles

Set it in the parameter "#1039 axisno".

Operation Method

(1) Moving the key

Use [Tab] key to move a cursor up and down or move it with the mouse. The cursor cannot move with [↑], [↓], [←] and [→] keys.

(2) Copying and pasting the data

Disabled.

Caution

(1) The setting range of the input data is not checked. To avoid setting the illegal value, check the setting range in "Detailed help" carefully when setting the data.

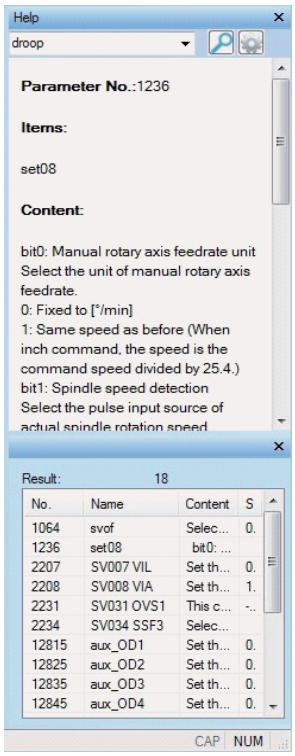
4.2.4 Parameter Search

	M8V/M8/E80	C80	M7/E70	C70	M60/M60S
Search	○	○	○	○	-
Move	○	○	○	○	-

The related parameter can be searched from the keyword.
To display the list of related parameter, enter the keyword and press [Search] on the help window. Double click on the parameter in the list to move the cursor to the appropriate parameter.

Caution

Since the parameter helps are common for M8V Series, M8 Series, E80, and C80, content for different models may be displayed.
The parameter which is not available for the operating target model may be searched.
If the help for unavailable parameter is displayed, cursor will not move to the parameter.



4.2.5 Parameter Modification History

	M8V/M8/E80	C80	M7/E70	C70	M60/M60S
History	○	○	○	○	○
Move	○	○	○	○	○
Return	○	○	○	○	-

Displays the history of parameter value modifications. Parameter setting values can be returned to the values before modification from this parameter modification history.
Modified parameters are displayed in modification time order. The oldest one is displayed on the bottom and the latest one is displayed on the top.
By clicking the title of the modified parameters, the values of the column clicked can be sorted in ascending or descending order. Click on the parameter in the history to switch to the display screen of the appropriate parameter.
Double click the history data to display the parameter modification confirmation dialog. Select [Yes] to return the parameter setting value to the value before modification, and simultaneously record a new modification history.
Modification history information can be exported from the menu [Project]-[Export parameter modification history].
Modification history information can be printed by selecting [Parameter modification history] of [Print] tab on the parameter screen.
Modification history information will be cleared when modifying parameter "#1001 SYS_ON (System validation setup)", "#1002 axisno", or "#1007 System type select".

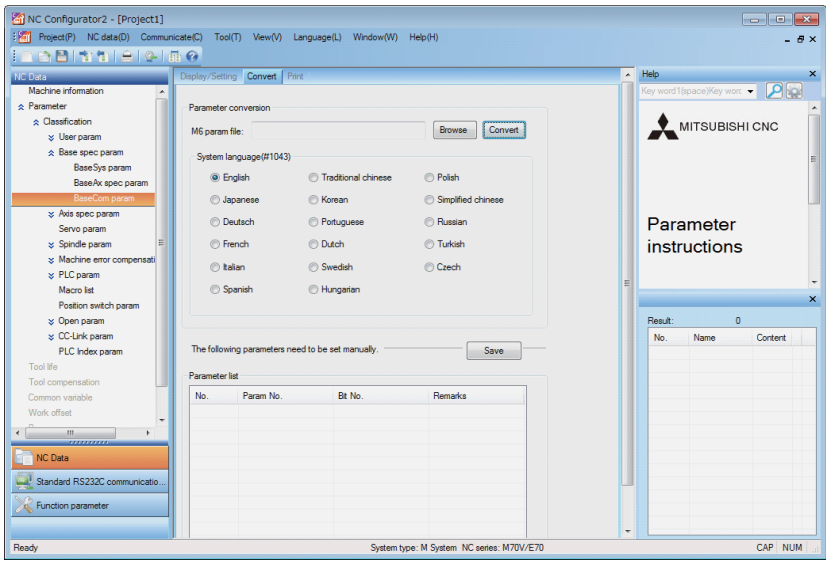
Caution

(1) If changing the parameters online, the function to undo the parameter setting value by double clicking the history is invalid.
(2) If reading the parameters from the NC or importing parameters from an external parameter file, the parameter history is cleared.
(3) If undoing the setting value by double clicking the parameter history, the linked parameters are simultaneously changed.

4.2.6 Parameter Conversion

M8V/M8/E80	C80	M7/E70	C70	M60/M60S
-	-	○	-	-

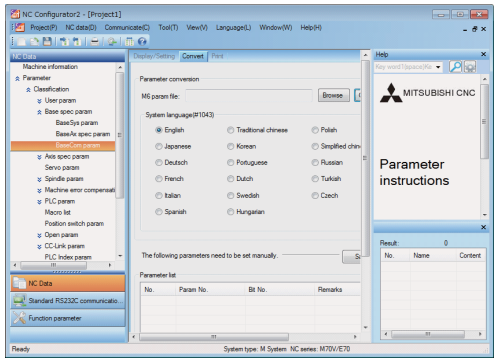
M60/M60S series parameters can be converted into M7/E70 series parameters.
Make effective use of existing resources and move to the new model smoothly.
Parameters that cannot be converted will be displayed in the parameter list. Convert them manually.
Press [Save the list] to save the unconverted parameter list.
Depending on the conversion setting content, parameter conversion is possible by part system or by axis.



Operation Method

(1) Create a new project for the series after the conversion.
➡ A project file will be created.

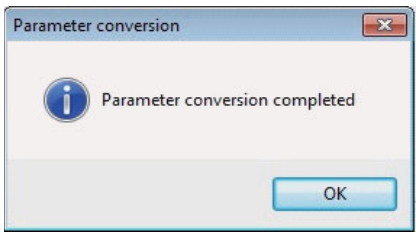
(2) Select [Parameters] in the navigation view and select [Convert] tab.
➡ Conversion screen is displayed.



(3) Press [Browse] to select M60/M60S series parameter to convert.

(4) Select the display language from [System language].

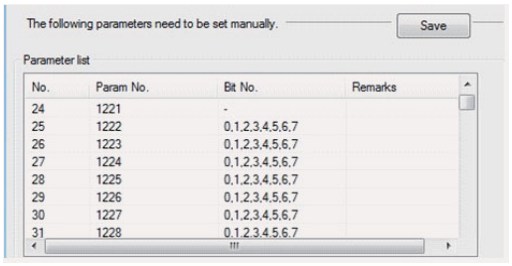
(5) Press [Convert].
➡ A completion message appears after the conversion is finished.



(6) Press [OK].

Parameter data is overwritten.

After the parameter conversion is finished, unconverted parameters are displayed in the list.



(7) To save the parameter list, press [Save the list].

(8) Convert the parameters that are displayed in the list manually.

4.2.7 Parameter Comparison

M8V/M8/E80	C80	M7/E70	C70	M60/M60S
○	○	○	○	○

Compare the parameter data between part systems or axes in a project or between two projects.
Comparison by part system, by axis, by each type of parameter or by the entire project is available.

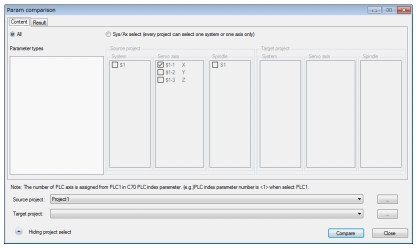
* The parameters of the active project and the destination NC are compared for M60/M60S series.
Compare the parameters by selecting [Communicate]-[Communication]-[Parameter comparison] from the menu.

4.2.7.1 Parameter Comparison between Two Projects

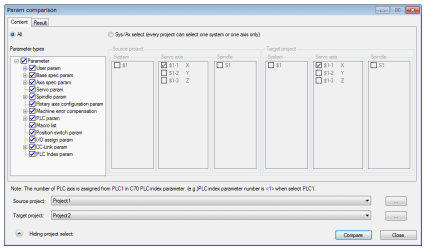
Operation Method

(1) Open the source project file to be compared.

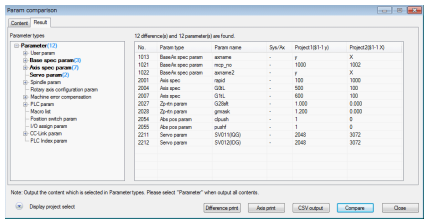
(2) Select [Tool]-[Param comparison] from the menu. → Selection screen for the project files to be compared appears.



(3) Select the target project file to be compared.
Files in different projects can only be selected.
To compare by selecting unopened project file or parameter file, press [...] on the right side of pull-down menu to select. → Parameter types which can be selected are displayed on the comparison content selection screen.

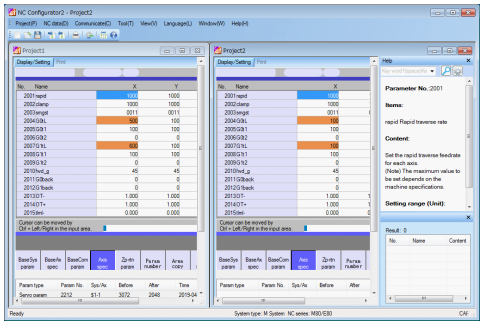


(4) Press [Compare] at lower right of the screen.
The parameter type to be compared can be selected. → Comparison result will be displayed.



(5) To check and correct the parameter with a difference, double-click the row of the parameter on the comparison result.

The focus is moved to the target parameter screen. (Items with orange background are with differences.) To update the comparison result after changing the parameter, return to the comparison result window and press [Compare].



*1 Clicking the [Difference print] button enables you to print only the differences.
*2 Clicking the [Axis print] button enables you to check only the axis-related parameters including those adjacent to the changes.
*3 Clicking the [CSV output] button enables you to output the differences to a file.

Caution

(1) The comparable project combinations are as follows.

Source project for comparison	Target project for comparison		
	M8V/M8/E80/M7/E70	C80	C70
M8V/M8/E80/M7/E70	○	-	-
C80	-	○	-
C70	-	-	○

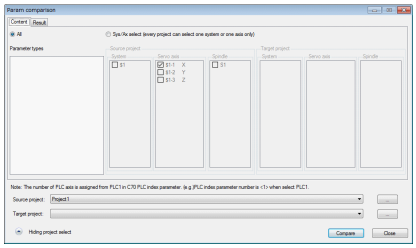
(2) The safety parameter cannot be compared.

4.2.7.2 Parameter Comparison between the Systems or Axes in a Project

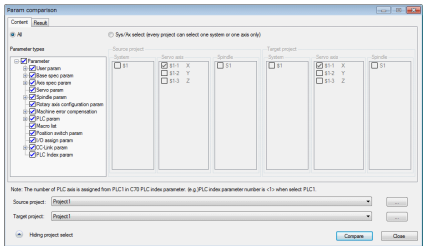
Operation Method

(1) Open the source project file to be compared.

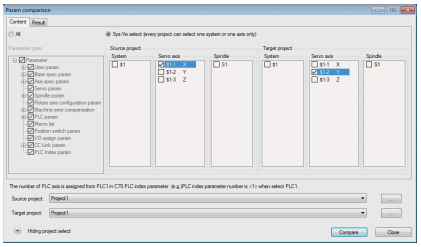
(2) Select [Tool]-[Param comparison] from the menu. → Selection screen for the project files to be compared appears.



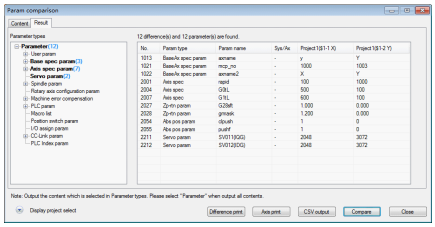
(3) Select the target project file to be compared. Files in different projects or in the same project can be selected. Select the same project when comparing the parameters by each part system or axis in a project. To compare by selecting unopened project file or parameter file, press [...] on the right side of pull-down menu to select. → Parameter types which can be selected are displayed on the comparison content selection screen.



(4) Select [Sys/Ax select]. → Part system, servo axis, and spindle can be selected on the system/axis selection screen.

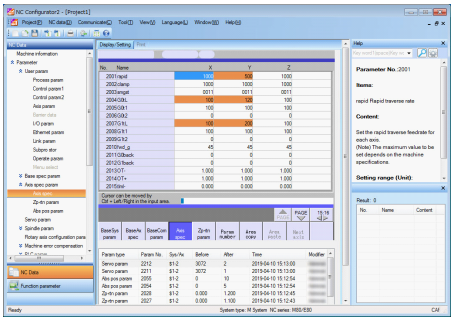


(5) Select the part system or axis for source project and target project. Press [Compare] at lower right of the screen. → Comparison result will be displayed. (The following screen shows a comparison result of different servo axes of the same project.)



(6) To check and correct the parameter with a difference, double-click the row of the parameter on the comparison result.

The focus is moved to the target parameter screen. (Items with orange background are with differences.) To update the comparison result after changing the parameter, return to the comparison result window and press [Compare].



*1 Clicking the [Difference print] button enables you to print only the differences.
*2 Clicking the [Axis print] button enables you to check only the axis-related parameters including those adjacent to the changes.
*3 Clicking the [CSV output] button enables you to output the differences to a file.

Caution

(1) The comparable project combinations are as follows.

Source project for comparison	Target project for comparison		
	M8V/M8/E80/M7/E70	C80	C70
M8V/M8/E80/M7/E70	○	-	-
C80	-	○	-
C70	-	-	○

(2) The safety parameter cannot be compared.

4.3 Read and Write the NC Data

	M8V/M8	E80	C80	M7/E70	C70	M60/M60S
Ethernet	○	○	○	○	○	-
USB	-	-	-	-	○	-
RS232C	○	-	-	○	-	○

Connect to NC to read and write the data.

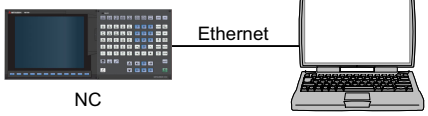
For Ethernet communication, the destination NC is only the NC that belongs to the same network group as the one the personal computer is connected to.

Check the subnet mask to use the same network group. (Setting example: "255.255.255.0")

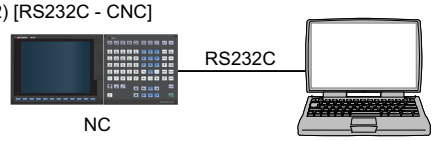
Connection pattern is shown below.

< M8/E80/M7/E70 series >

(1) [Ethernet - CNC]

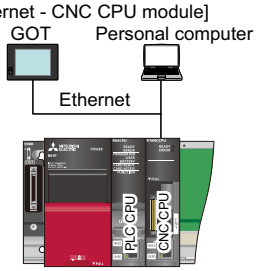


(2) [RS232C - CNC]



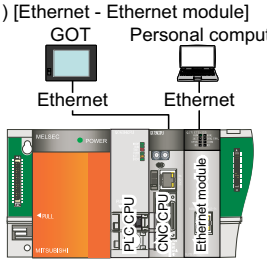
< C80 >

[Ethernet - CNC CPU module]

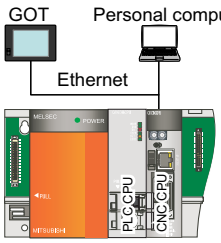


< C70 >

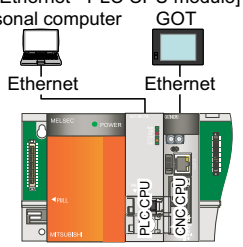
(1) [Ethernet - Ethernet module]



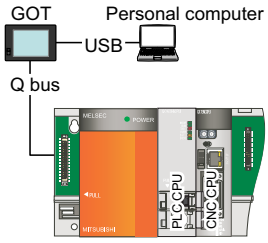
(2) [Ethernet - CNC CPU module]



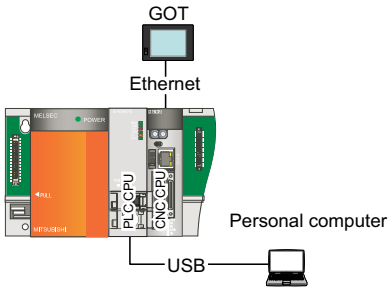
(3) [Ethernet - PLC CPU module]



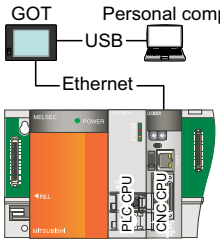
(4) [USB - GOT(Q mode)]



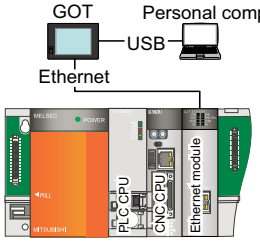
(5) [USB - PLC CPU module]



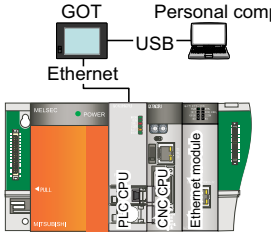
(6) [USB - GOT(Ethernet - CNC CPU module)]



(7) [USB - GOT(Ethernet - Ethernet module)]

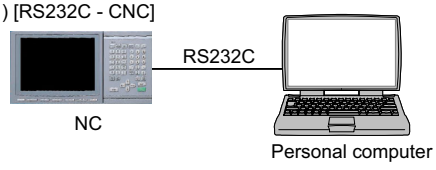


(8) [USB - GOT(Ethernet - PLC CPU module)]



< M60/M60S series >

(1) [RS232C - CNC]



Caution

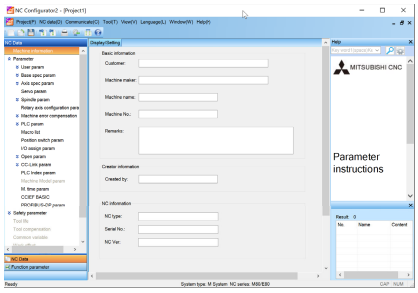
(1) When you connect C70 via Ethernet, it can be connected via Ethernet or via PLC CPU module.
For C80, Ethernet connection is available only to the CNC module.

4.3.1 Read From NC

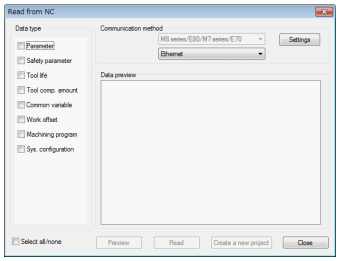
Read the data from NC.

Operation Method

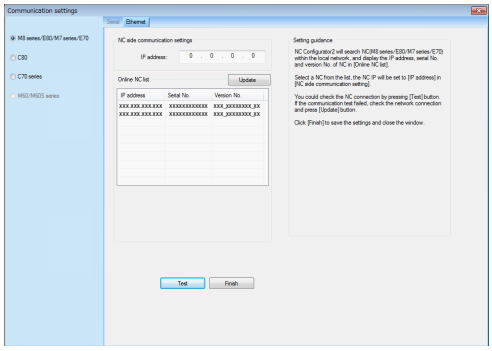
(1) Create a new project or open an existing project. (It can be abbreviate if it is new read.) → Project is displayed.



(2) Select [Communicate]-[Read from NC] from the menu. → "Read from NC" window appears.

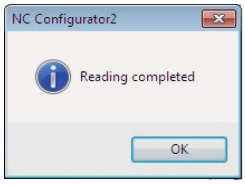


(3) Press [Settings] in the Communication method frame. → "Communication settings" window appears.



(4) Set the communication settings and press [Finish].

(5) Select the data type to read and press [Read] or [Create a new project]. → A reading completion message appears after the reading is finished.



Caution

(1) Reading from NC can be done only if the same series name and system type are used for both the project of NC Configurator2 and the NC. (However, reading can be done between M70 and M70V/E70, M700 and M700V.)
(2) This function cannot be used online.
(3) When reading parameters from a CNC, the values set to the parameters of the connected NC are displayed in the parameter data of the [Display/Setting] screen. When parameters that exist in the NC Configurator2 project do not exist in the connected NC, the parameter data displayed on the [Display/Setting] screen is blank.

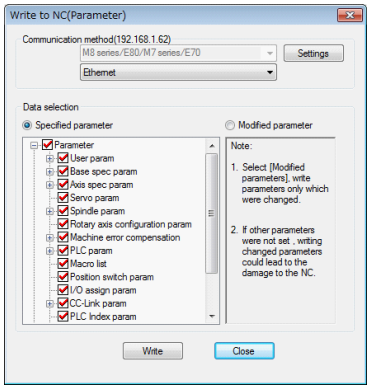
4.3.2 Write To NC

Write parameters to NC.

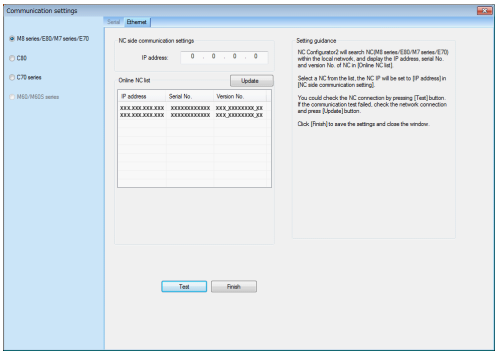
Operation Method

(1) Set the data to the project.

(2) Select [Communicate]-[Write to NC(Parameter)] from the menu. → "Write to NC(Parameter)" window appears.



(3) Press [Settings] in the Communication method frame. → "Communication settings" window appears.



(4) Set the communication settings and press [Finish].

(5) Select parameter to write, and press [Write]. → A writing completion message appears after the writing is finished.

Caution

(1) Writing out to the NC can be done only if the same series name and system type are used for both the project of NC Configurator2 and the NC. (However, writing can be done between M70 and M70V/E70, M700 and M700V.)
(2) This function cannot be used online.
(3) When writing (parameters) to the CNC with blank parameter data in the NC Configurator2 project, the parameters with a character string data type will be updated as blank. Parameters with a numerical data type will not be updated.

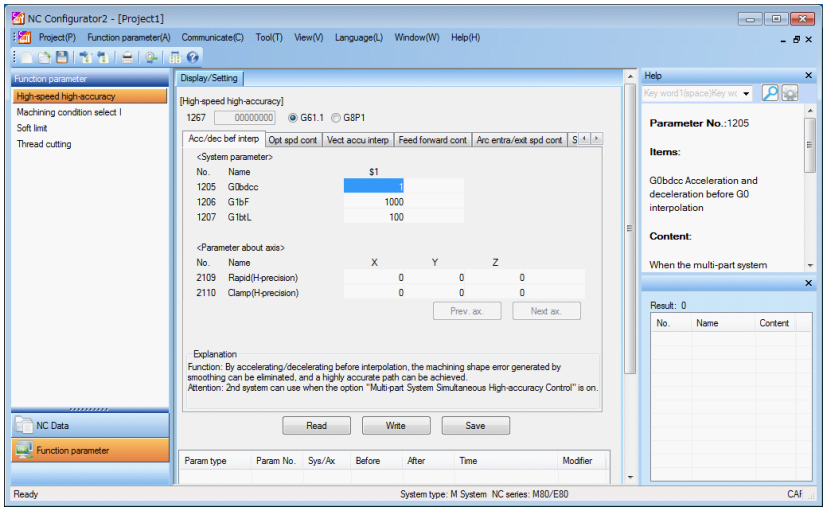
4.4 Function Parameter

4.4.1 High-speed High-accuracy (M8V/M8/M7 Series, E80, C80)

M8V/M8/E80	C80	M7	E70	C70	M60/M60S
○	○	○	- (Note 1)	-	-

Adjust the data related to the high-speed high-accuracy.
The high-speed high-accuracy adjustment function cannot be used online.
Jump to the target parameter screen and undo the modification by double-clicking the data modified from the high-speed high-accuracy screen on the modification history.
(Note 1) It can be set to use M7 series and common project screen, however sending to NC is invalid.

Press [Function parameter] in the navigation window and select [High-speed high-accuracy] to display the high-speed high-accuracy screen.
2nd part system can be used when the option of high-accuracy control in 2 part systems is enabled.



4.4.2 Machining Condition Selection I (M8V/M8/M7 Series, E80, C80)

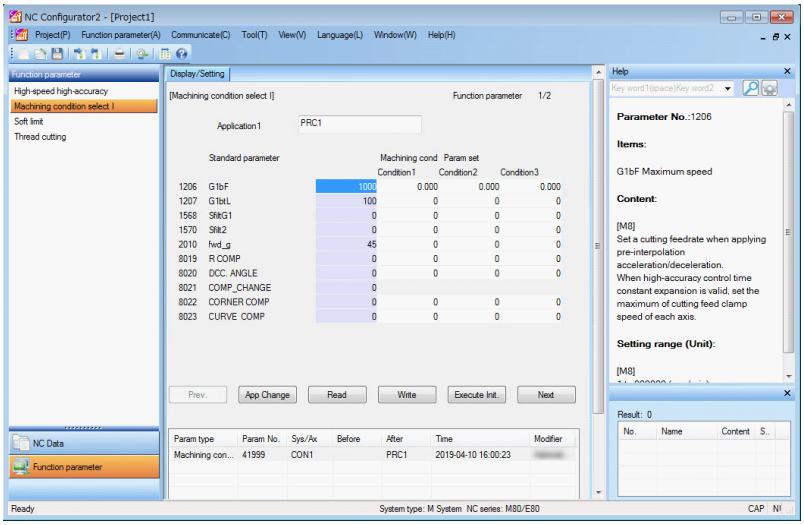
Type	M8V/M8/ E80	C80	M70V/M700V	M70/M700	E70	C70	M60/M60S
Machining center system	○	○	○	-	- (Note 1)	-	-
Lathe system	○	○	-	-	-	-	-

The data of the machining condition selection I can be set.

(Note 1) It can be set to use M7 series and common project screen, however sending to NC is invalid.

Press the [Function parameter] button on the navigation window and select [Machining condition select I] to display the machining condition selection I screen.

The machining condition selection I screen cannot be used online.



Item	Description
Prev	Opens the previous page.
App change	Switches the machining application being set. Changes the application in setting in the order of Application 1, 2, 3, 1,.....
Read	Displays the READ window. All the parameters (ALL.PRM) are read from the NC.
Write	Displays the WRITE window. Only the parameters relating to the machining condition selection are written to the NC.
Execute init.	Copies the standard parameter values to all the machining condition parameter sets of the machining applications 1, 2, and 3.
Next	Opens the next page.

Detailed Description

(1) The machining application 1, 2, or 3 can be named respectively. (Above is an example for the machining application 1 named as "PRO1".)
Use single-byte numbers, single-byte English capital letters, and single-byte symbols.
("\", "/", ",", "*", "?", "", "<", ">", "|", and "(space)" cannot be used.)

(2) Tolerance control
As for M8V Series, M8 series and E80, the machining condition parameter to be displayed is switched by enabling or disabling tolerance control (parameter "#12066 Tolerance ctrl ON").

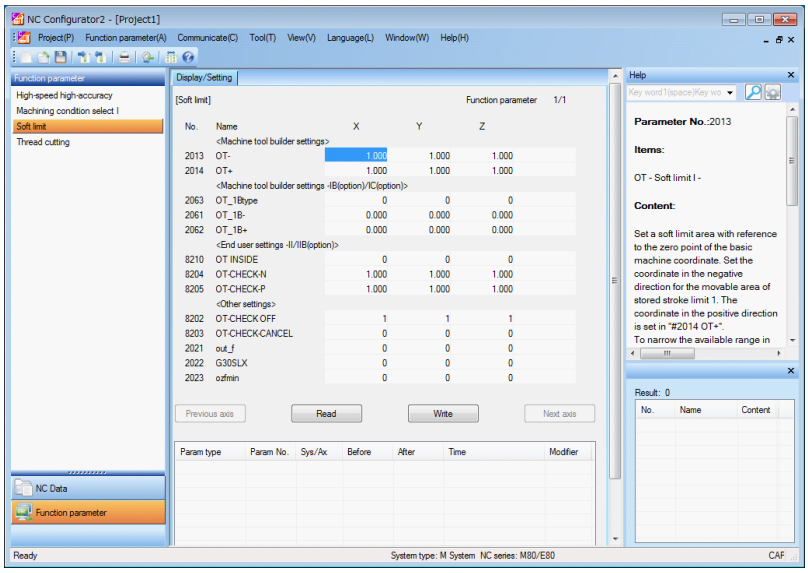
(3) When the value of the parameter "#12066 Tolerance ctrl ON" is 1 and "#8090 SSS ON" is 0, the machining condition selection parameters can be set but the operation alarm will occur if you write the parameters to the NC. In that case change one of the parameters.

4.4.3 Soft Limit (M8V/M8/E80/M7/E70 Series, C80, C70)

M8V/M8/E80	C80	M7/E70	C70	M60/M60S
○	○	○	○	-

The data of the soft limit can be set.

Press the [Function parameter] button on the navigation window and select [Soft limit] to display the Soft limit screen.
This function cannot be used online.
Jump to the target parameter screen and undo the modification by double-clicking the data modified from the soft limit screen on the modification history.



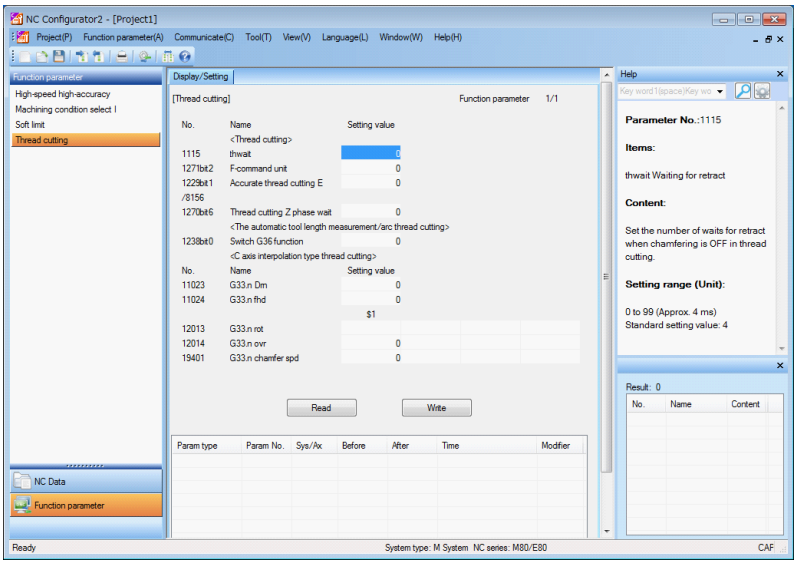
Item	Description
Previous axis	Displays a previous axis if there is any displayable axis before this axis.
Read	All the parameters (ALL.PRM) are read from the NC.
Write	Only the parameters relating to the soft limit are written to the NC.
Next axis	Displays a subsequent axis if there is any displayable axis after this axis.

4.4.4 Thread Cutting (M8V/M8/E80/M7/E70 Series, C80)

M8V/M8/E80	C80	M7/E70	C70	M60/M60S
○	○	○	-	-

The data of the Thread cutting can be set.

Press the [Function parameter] button on the navigation window and select [Thread cutting] to display the Soft limit screen.
This function cannot be used online.
Jump to the target parameter screen and undo the modification by double-clicking the data modified from the thread cutting screen on the modification history.



Item	Description
Read	All the parameters (ALL.PRM) are read from the NC.
Write	Only the parameters relating to the Thread cutting are written to the NC.

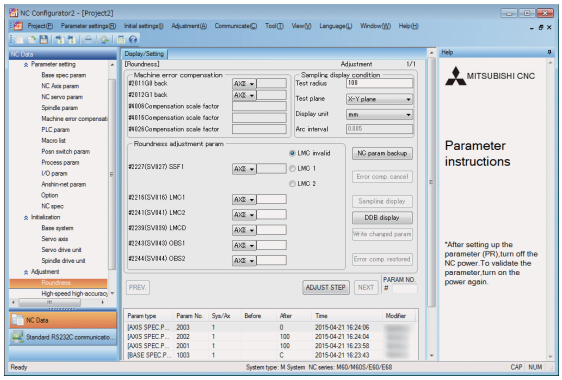
4.5 Adjustment Function

4.5.1 Roundness (M60/M60S Series)

M8V/M8/E80	C80	M7/E70	C70	M60/M60S
-	-	-	-	○

Adjust the roundness.

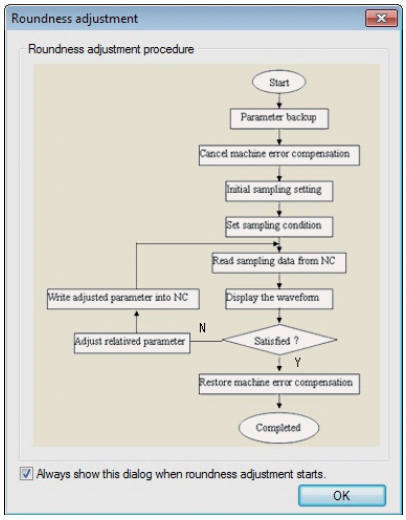
Press [NC data] button in the navigation window and select [Roundness] in the tree to display the roundness adjustment screen.



Operation Method

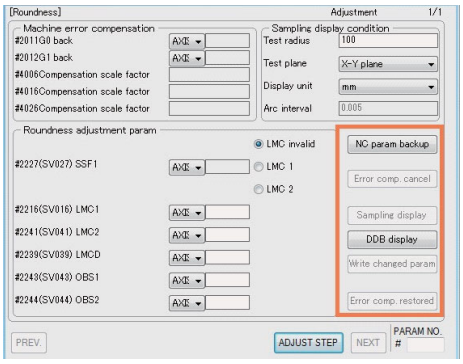
(1) Select [Roundness] in the tree.

Roundness adjustment procedure will be displayed.



(2) Check the procedure and press [OK].

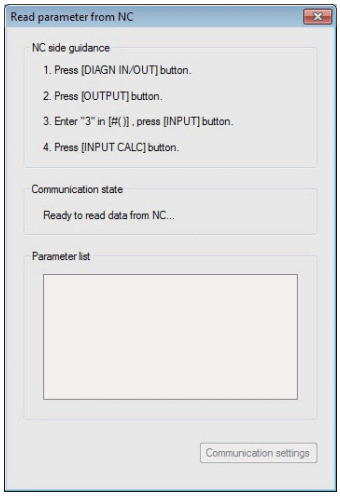
The adjustment screen will be displayed.



(The buttons in the roundness adjustment screen are listed systematically.)

(3) Press [NC param backup].

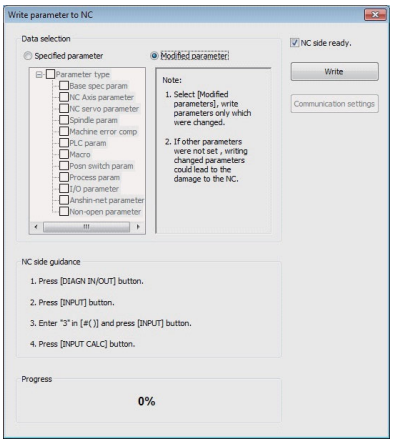
➡ The [Read parameter from NC] screen appears.



(4) Carry out the operation in accordance with the operation guidance.
After reading is finished, save the parameters.

(5) Press [Error comp.cancel].

➡ All the machine error compensation related parameters are cleared.
[Write parameter to NC] screen will be displayed.



(6) Carry out the operation in accordance with the operation guidance.
Press [Write].

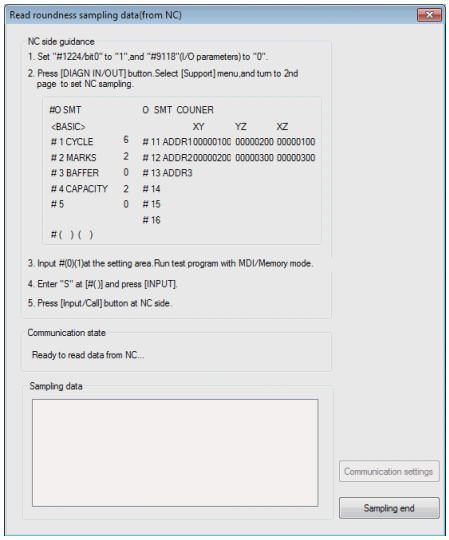
➡ A completion message appears after the writing is finished.

(7) Press [OK].

➡ The completion message and [Write parameter to NC] screen are closed.

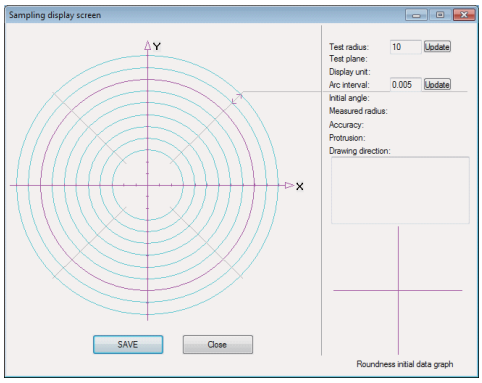
(8) Press [Sampling display].

The [Read roundness sampling data(from NC)] screen will be displayed.



(9) Carry out the operation in accordance with the operation guidance.
Press [Sample end].

[Read roundness sampling data(from NC)] is closed and the roundness screen will be displayed.



Detailed Description

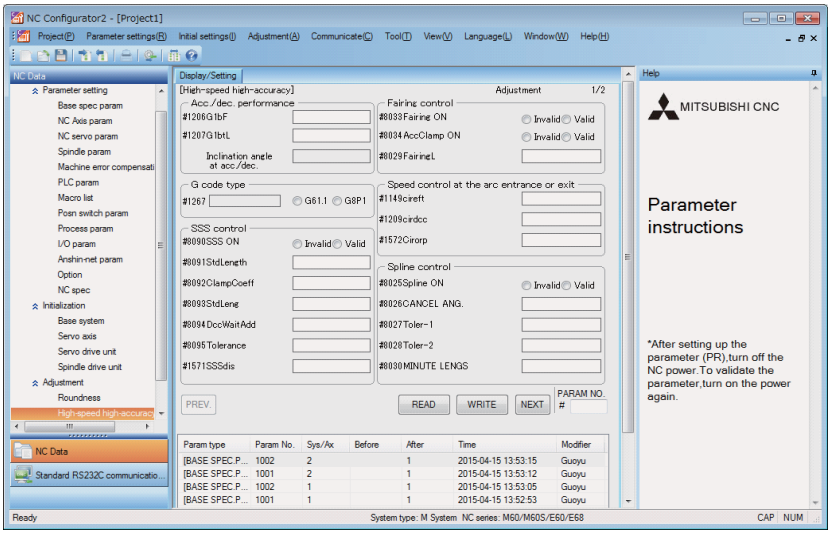
(1) To display the roundness screen by selecting the saved sampling data, press [DDB display] and select the saved data.

(2) Press [Erro comp. restored] after the roundness parameter adjustment is finished to display the cleared data at canceling the compensation value by the operation method (5). The [Write parameter to NC] screen will be displayed at the same time.

4.5.2 High-speed High-accuracy (M60/M60S Series)

M8V/M8/E80	C80	M7/E70	C70	M60/M60S
-	-	-	-	○

Press [NC data] button in the navigation window and select [High-speed high-accuracy] in the tree to display the high-speed high-accuracy screen.

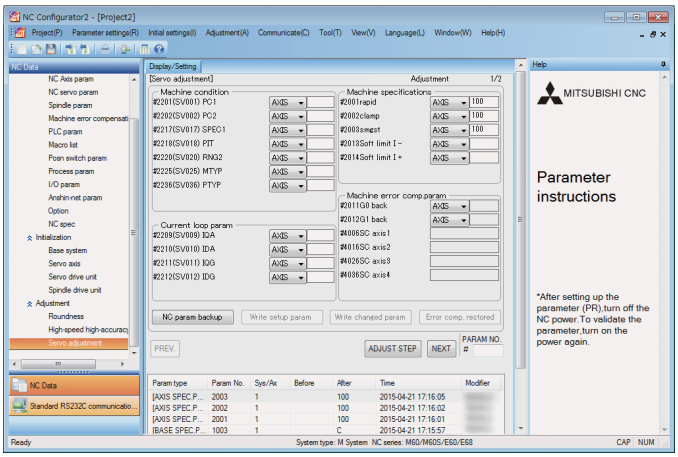


4.5.3 Servo Adjustment (M60/M60S Series)

M8V/M8/E80	C80	M7/E70	C70	M60/M60S
-	-	-	-	○

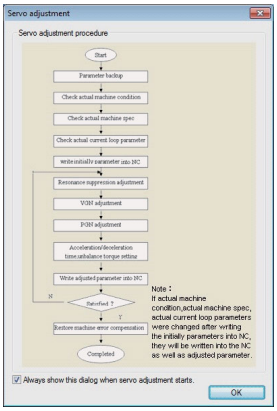
Adjust the servo in this screen.

Press [NC data] in the navigation window and select [Servo adjustment] in the tree to display the servo adjustment screen.

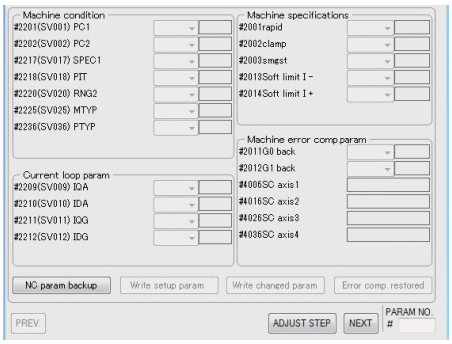


Operation Method

(1) Select [Servo adjustment] in the tree. ➡ Servo adjustment procedure will be displayed.

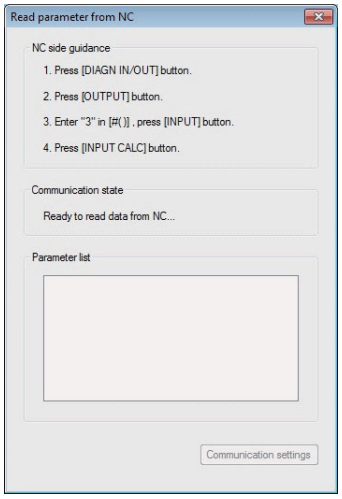


(2) Check the procedure and press [OK]. ➡ The adjustment screen will be displayed.



(3) Press [NC param backup].

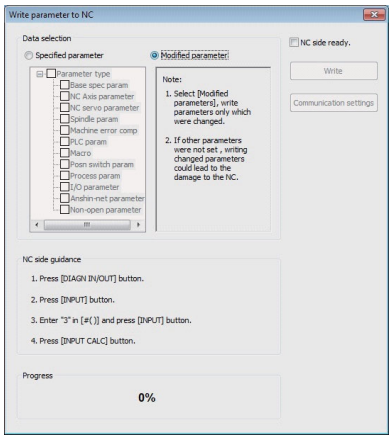
→ The [Read parameter from NC] screen appears.



(4) Carry out the operation in accordance with the operation guidance.
After reading is finished, save the parameters.

(5) After confirming the NC backup parameters, the current machine state, machine specification and the current loop parameters, press [Write setup param].

→ [Write parameter to NC] screen will be displayed.

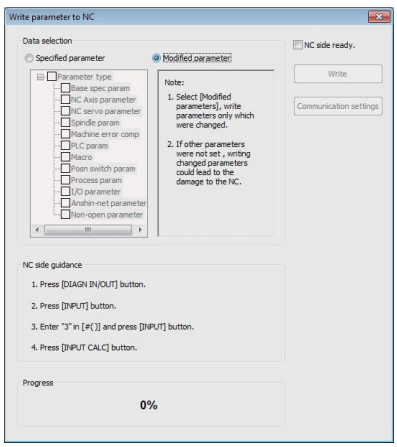


(6) Press [Write].

→ Parameters are written to the NC and the machine error compensation is cleared at the same time.

(7) Set the machine resonance control, speed loop gain, position loop gain parameter adjustment and the unbalanced torque, and then press [Write changed param].

→ [Write parameter to NC] screen will be displayed.



(8) Press [Write].

→ Write parameters to NC

(9) After the completion of all the adjustments, press the [Error comp. restored] button.

→ The machine error compensation data cleared when writing the initial values will be undone.

4.6 Wizard Function

4.6.1 Parameter Initialization

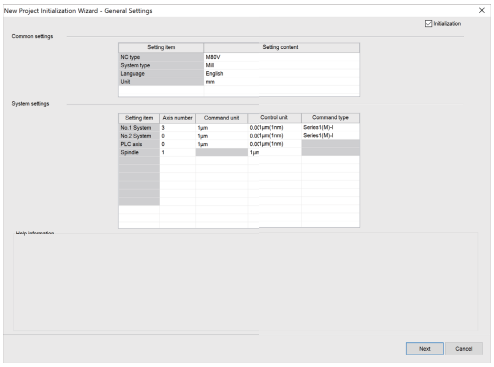
M8V/M8/E80	C80	M7/E70	C70	M60/M60S
○	○	○	○	-

The parameters for the servo motor and the spindle motor that are required when starting up the NC for the first time can be set readily with the initialization wizard.

Operation Method

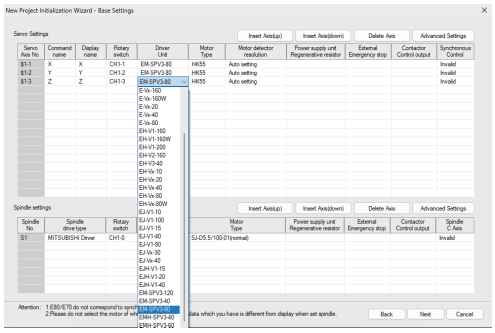
(1) Select [New] in the Startup guidance or select [Project]-[New] from the menu.

→ "General Settings" window appears.



(2) Check "Initialization" check box and press [Next].

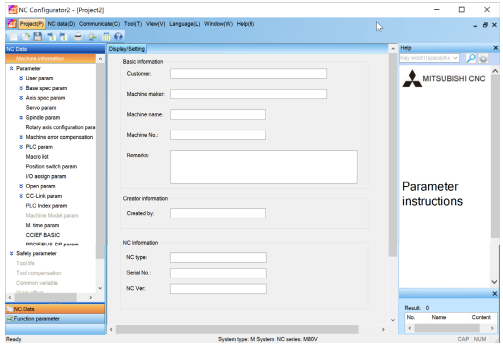
→ Moves to "Basic information" window.



Refer to the "Detailed description" for details.

(3) After entering various data, press [Finish].

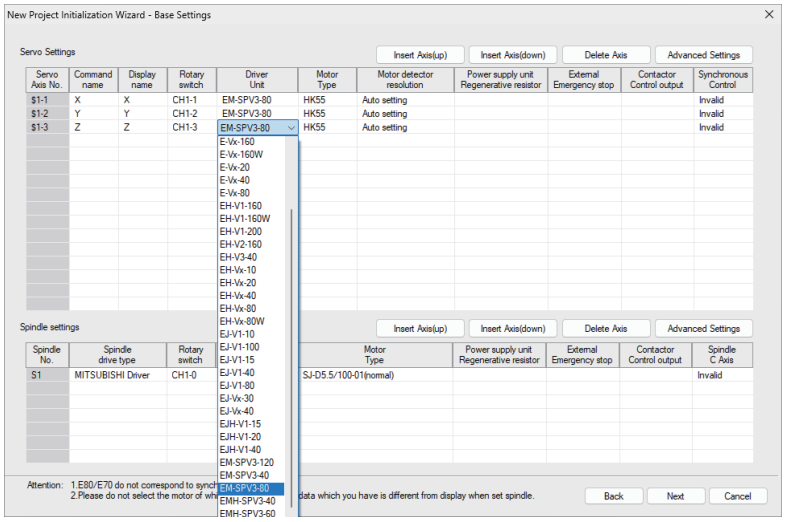
→ A project file which includes the initial parameters is created.



Detailed Description

The initialization wizard consists of "Basic information", "Servo Advanced Settings", "Spindle Advanced Setting", and "Check"

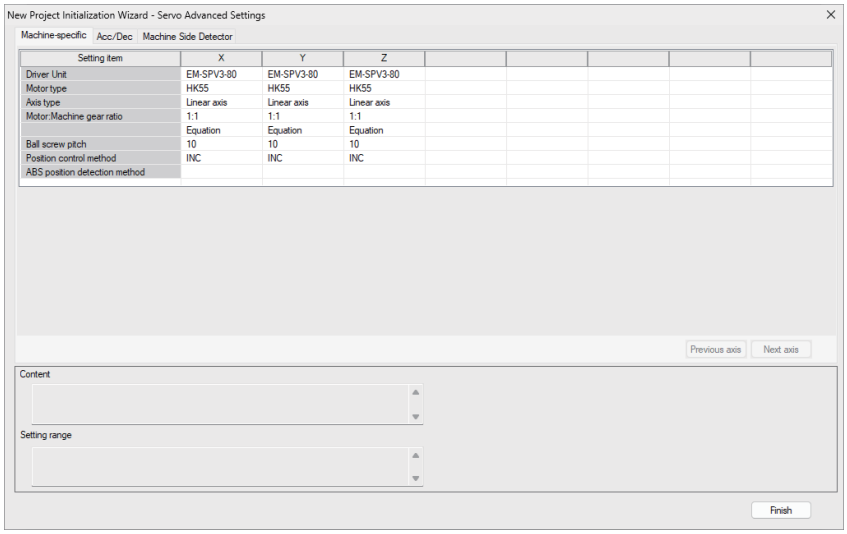
(1) Basic Information

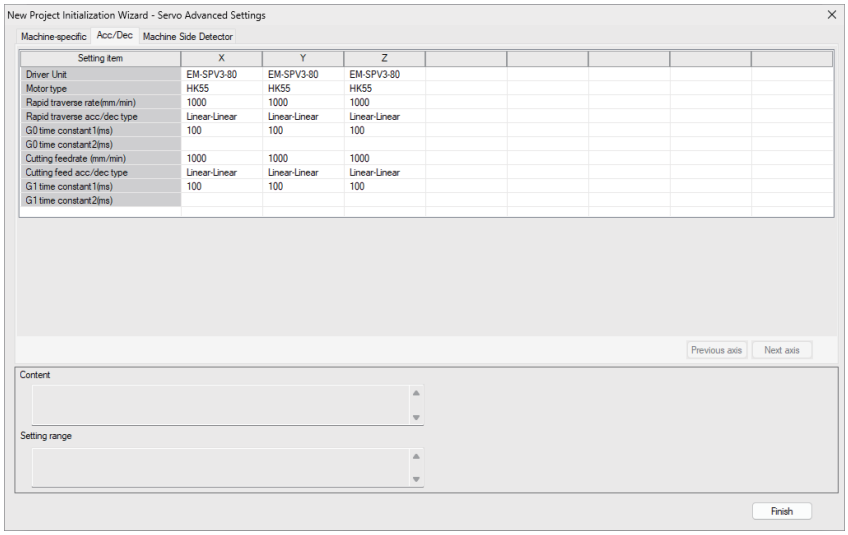


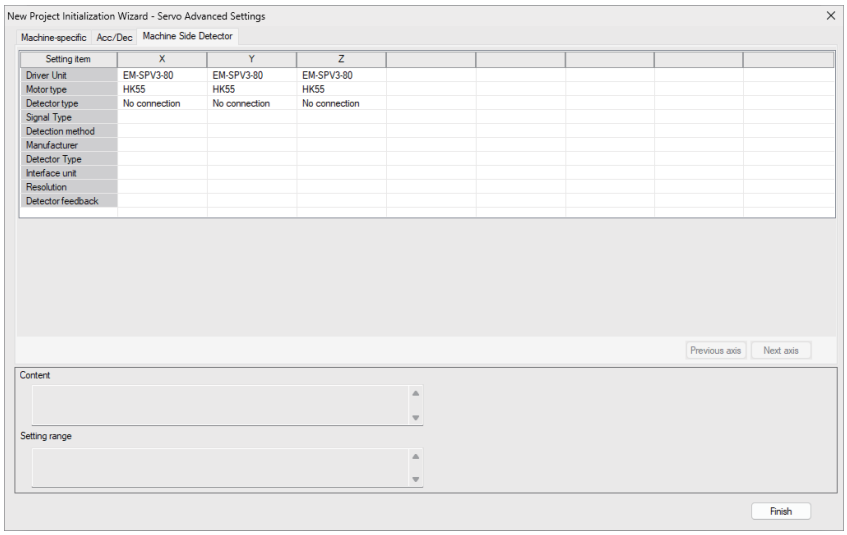
"Servo Advanced Settings" will show up by clicking "Advanced Settings" of "Servo Settings".
"Spindle Advanced Settings" will show up by clicking "Advanced Settings" of "Spindle Settings".
A screen will change to "Check" by clicking "Next".

(2) Servo Advanced Settings

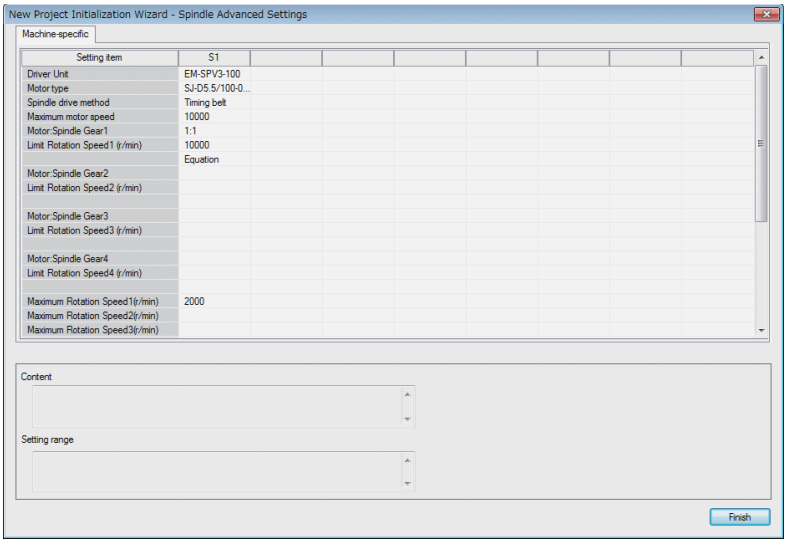
It consists of [Machine-specific], [Acc/Dec], [Machine Side Detector]. Switch the selection by tab.



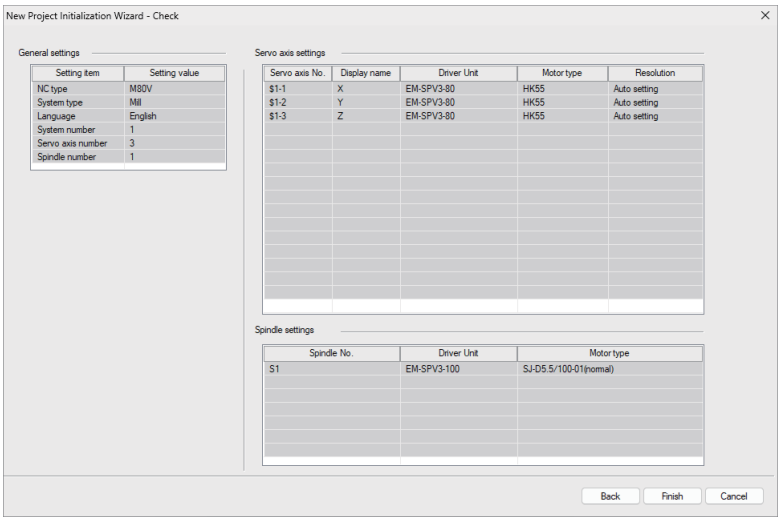




(3) Spindle Advanced Settings



(4) Check



4.6.2 Initial Setting After Creating the Project

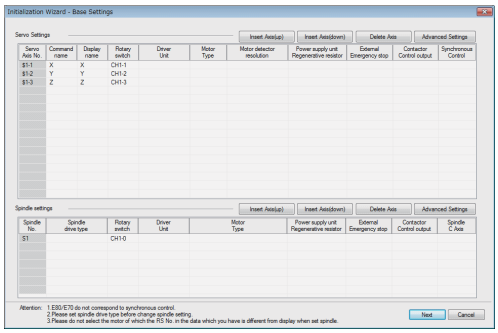
M8V/M8/E80	C80	M7/E70	C70	M60/M60S
○	○	○	○	-

The parameter settings can be modified with the parameter setting wizard after creating the project.

Operation Method

(1) After selecting the project to be modified, select the menu [Tool]-[Parameter initialization wizard].

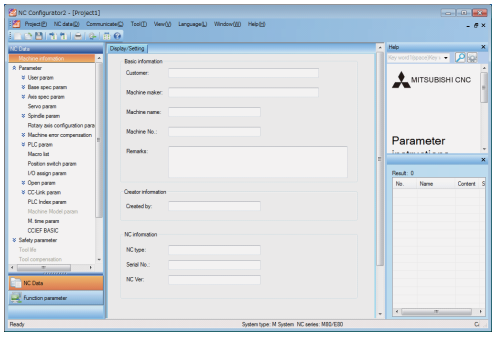
"Basic information" screen appears.



Refer to the "Detailed description" for details.

(2) After entering the various data, press [Finish].

The parameter modification is reflected to the target project.

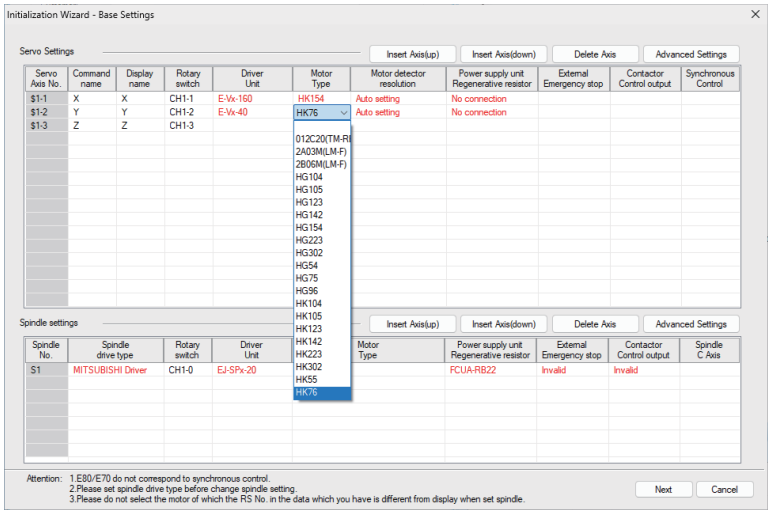


Detailed Description

Using the parameter setting wizard on an existing project, the items on the drive unit of existing axis and motor can be changed and also an axis can be added or deleted.
However, series and system type cannot be changed and the part system cannot be added nor deleted.
In this case, create a new project again by referring to "4.6.1 Parameter Initialization".

Parameter initialization after creating a project consists of "Basic information", "Servo Advanced Settings", "Spindle Advanced Setting", and "Check".

(1) Basic Information



For an existing axis, the settings other than the "axis command name", "axis display name", and "rotary switch" are not displayed on the screen.
Set the item to change for the target axis. The setting method is the same as described in "4.6.1 Parameter Initialization".
When any item of an existing axis is blank, the settings are not reflected in the parameters after the initialization wizard is completed.
To change the spindle setting, set each item again after selecting "Spindledrive type".

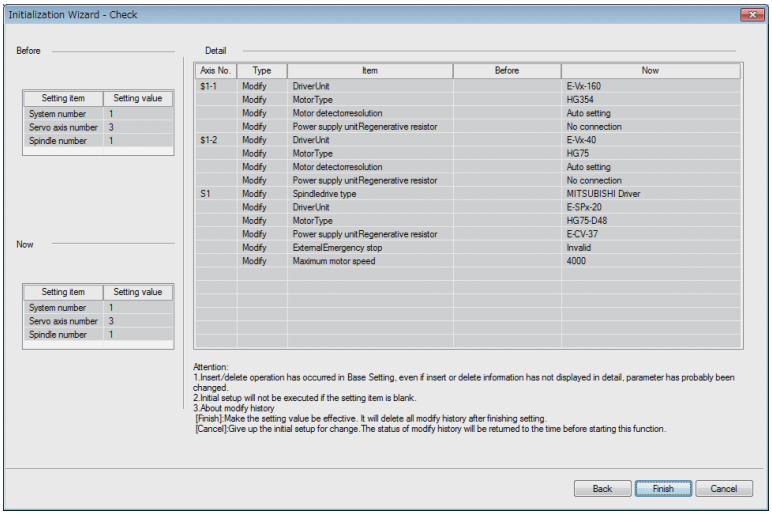
(2) Servo Advanced Settings

It consists of [Machine-specific], [Acc/Dec], [Machine Side Detector]. Switch the selection by tab.
For an existing servo, the settings other than the axis display name are not displayed on the screen as with the Basic information screen. The setting method of detailed items is the same as described in "4.6.1 Parameter Initialization".

(3) Spindle Advanced Settings

It consists of [Machine-specific]. For an existing spindle, the settings other than the spindle No. are not displayed on screen as with the Basic information screen. The setting method of detailed items is the same as described in "4.6.1 Parameter Initialization".

(4) Check


Initialization Wizard - Check
Before
Setting item
Setting value
System number
1
Servo axis number
3
Spindle number
1
Now
Setting item
Setting value
System number
1
Servo axis number
3
Spindle number
1
Detail
Axis No.
Type
Item
Before
Now
$1-1
Modify
DriverUnit
E-Vx-160
Modify
MotorType
HG354
Modify
Motor detectorresolution
Auto setting
Modify
Power supply unitRegenerative resistor
No connection
$1-2
Modify
DriverUnit
E-Vx-40
Modify
MotorType
HG75
Modify
Motor detectorresolution
Auto setting
Modify
Power supply unitRegenerative resistor
No connection
S1
Modify
Spindledrive type
MITSUBISHI Driver
Modify
DriverUnit
E-SPx-20
Modify
MotorType
HG75-D48
Modify
Power supply unitRegenerative resistor
E-CV-37
Modify
ExternalEmergency stop
Invalid
Modify
Maximum motor speed
4000
Attention:
1.Insert./delete operation has occurred in Base Setting, even if insert or delete information has not displayed in detail, parameter has probably been changed.
2.Initial setup will not be executed if the setting item is blank.
3.About modify history
[Finish]:Make the setting value be effective. It will delete all modify history after finishing setting.
[Cancel]:Give up the initial setup for change.The status of modify history will be returned to the time before starting this function.
Back
Finish
Cancel

5

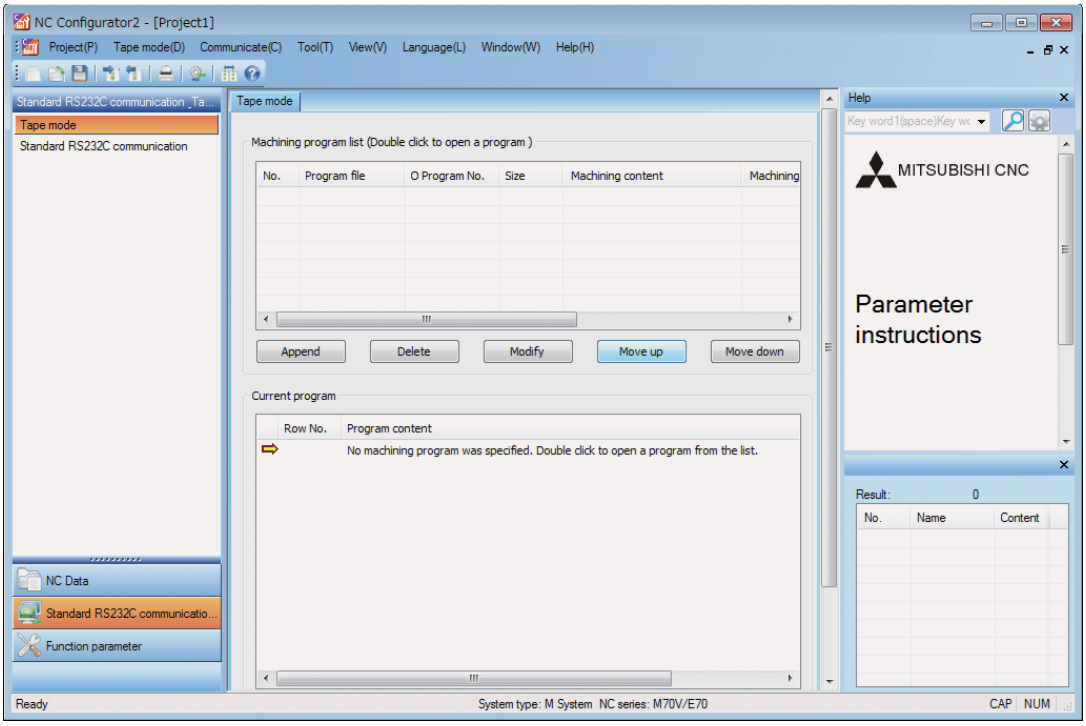
Standard RS232C Communication & Tape Mode

5.1 Tape Mode

M8V/M8/E80	C80	M7/E70	C70	M60/M60S
-	-	○	-	○

Tape mode can be performed.
For the connection patterns, refer to "4.3 Read and Write the NC Data".
For Ethernet communication, the destination NC is only the NC that belongs to the same network group as the one the personal computer is connected to.
Check the subnet mask to use the same network group. (Setting example: "255.255.255.0")

Press [Standard RS232C communicationTape mode] in the navigation window, and select [Tape mode] in the tree to display the tape mode screen.



Operation Method

(1) Select [Tape mode] in the tree. ➡ Tape mode screen will be displayed.

(2) Press [Add] to select a program to operate. ➡ The selected program will be displayed in the program list.

(3) Double-click the program to operate. ➡ Program content will be displayed.

(4) Prepare for NC side, and click on [NC side ready].

(5) Press [Communication settings] to set the communication parameter.

(6) Press [Start]. ➡ NC starts machining.

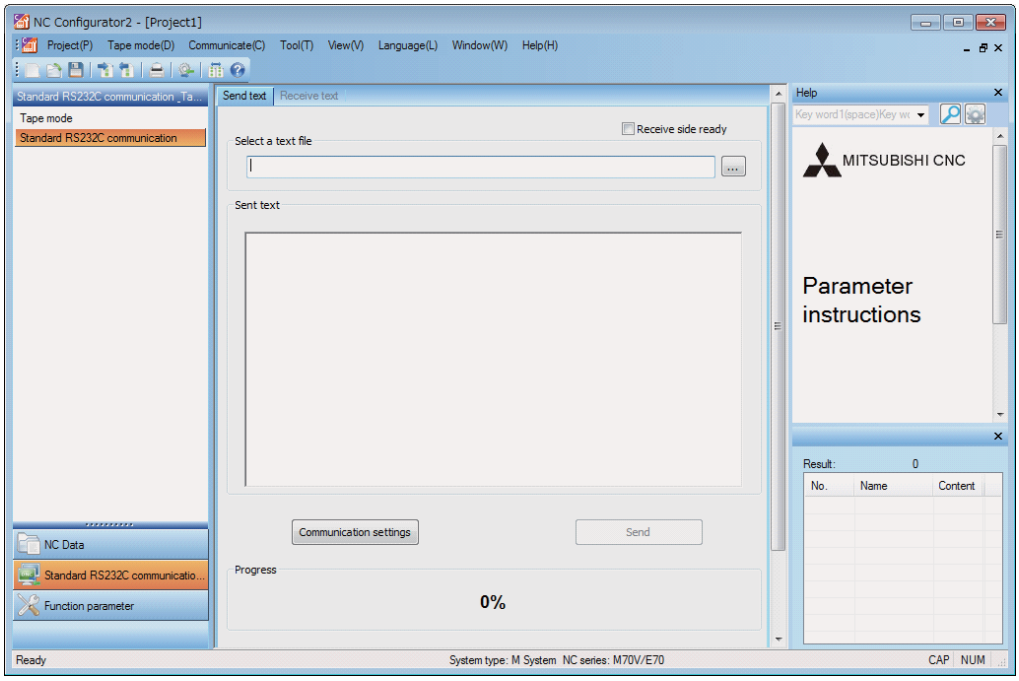
5.2 Standard RS232C Communication

M8V/M8/E80	C80	M7/E70	C70	M60/M60S
-	-	○	-	-

Sending and receiving text can be performed.
For the connection patterns, refer to "4.3 Read and Write the NC Data".

Press [Standard RS232C communicationTape mode] in the navigation window, and select [Standard RS232C communication] in the tree to display the send text and receive text screen.

5.2.1 Sending Text



Operation Method

(1) Select [Standard RS232C communication] in the tree and choose [Send text] tab. ➡ Send text screen will be displayed.

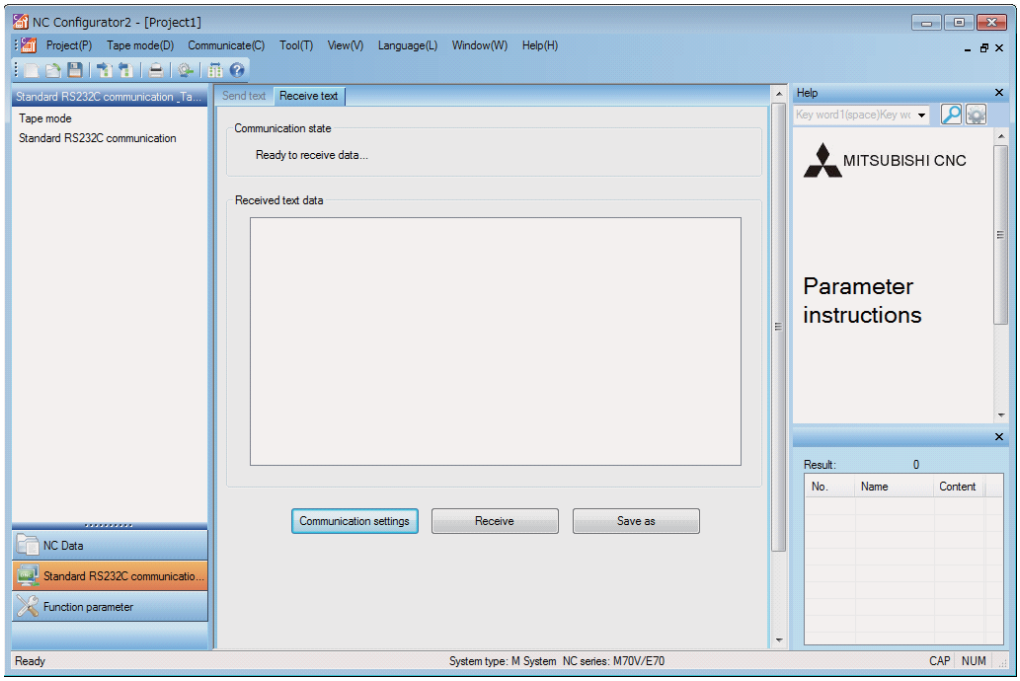
(2) Prepare for NC side, and click on [Receive side ready].

(3) Set the sending data on [Select a text file].

(4) Press [Communication settings] to set the communication parameter.

(5) Press [Send]. ➡ The contents of sent text will be displayed in the text box.

5.2.2 Receiving Text



Operation Method

(1) Select [Standard RS232C communication] in the tree and choose [Receive text] tab. → Receive text screen will be displayed.

(2) Press [Communication settings] to set the communication parameter.

(3) Press [Receive]. → The contents of received text will be displayed in the text box.

(4) Press [Save as] to save the received text.

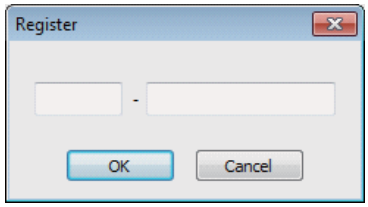
Appendix 1

Registration after Installation

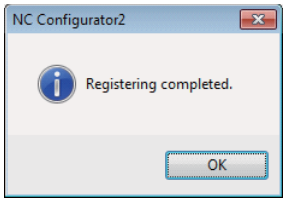
Appendix 1.1 Registration after Installation

Operation Method

(1) Select [Help]-[Register] from menu. → "Register" window appears.



(2) Enter the Product ID and press [OK]. → Registration succeeded message appears.



Appendix 2

Restrictions

Appendix 2.1 Restrictions

No.	Function	Model	Description
1	Communication	C70	["Can not allocate Share memory" Error message] In case of power disconnection for some reasons during communication, restarting NC Configurator2 to communicate again displays this error message. Regardless of the error message, the communication can be started again when the power is connected.
2	Parameter	M8V Series M8 series E80 C80 M7 series E70 series C70	[Parameter related settings] NC Configurator2 currently does not support some parameter related settings.
3	Help	M8V Series M8 series E80 C80 M7 series E70 series C70	Some parameter helps are not supported.
4	Creating new project	M60	Multiple M60 projects cannot be started at the same time.
5	Network	M8V Series M8 series E80 C80 M7 series E70 series C70	The destination NC is only the NC that belongs to the same network group as the one the personal computer is connected to. The online function cannot be used between the NC and the NC Configurator2 project in a different network group. Check the subnet mask to use the same network group. (Setting example: "255.255.255.0")
6	Machining program	M8V Series M8 series E80 C80 M7 series E70 series C70	Program display at import The file name to be imported is the program name and the content is displayed as one program on NC Configurator2. Therefore, if multiple programs are organized as one file such as ALL.PRG which is output from NC, NC Configurator2 does not divide the file into individual programs, and displays it as one program.
7	Parameter	M8V Series M8 series E80 C80 M7 series E70 series	When you input [.00…], [0.00…], [0000…], [-0…], [+0…], etc. through the parameter input screen, a value that can be interpreted as 0 is shown as [0] on the parameter input screen. A one-byte space, however, is interpreted as a character string, thus if [0] is input it appears as it is. Also, parameters that are displayed as [0000…][0.000…] on NC might be shown as [0] on NC Configurator2.
8	Parameter	M8V Series M8 series E80 C80 M7 series E70 series	A part of character is automatically set on NC for some parameters, including #8883 (Subpro stor D1: dev), however it needs to enter all the values manually on NC Configurator2.
9	Common variables	M7 series E70 series	The variable name cannot be displayed on NC Configurator2 when reading the common variable name (#500 or more) set on NC with NC Configurator2, or saving the data to CF card and importing it to NC Configurator2.
10	Start	All	If the message "NC Configurator2 initialization failed. Please install NC Configurator2 again." appears, select "Running As Admin" to start NC Configurator2.
11	Screen font	All	Some screens may not be changed when selecting middle or large font size on [Control] - [Display].
12	High-speed high-accuracy	M8V Series M8 series E80 C80	Some parameters related to the addition of new function for high-speed high-accuracy are not available. Parameters for the 3rd part system and the following are not available even if the multi-system simultaneous high-accuracy control is enabled.

No.	Function	Model	Description
13	Machining program	All	NC Configurator2 does not support the import of a file that is greater than 5MB.
14	Parameter	All	Even if you change the parameter "#1041 I_inch (Initial inch)" on an NC Configurator2 project, the parameter values are not converted into inch or metric. Change the parameter #1041 on the NC first, and then read the data again.
15	Parameter	M8V Series M8 series E80	If NC Configurator2 of a version older than B3 was used in the past, the following parameters may be set incorrectly on an M8 project at the initial or manual setting. - Spindle parameters #13177, #13178 and #13191 to #13196 - Zero point return parameter #2036 - CC-Link parameter dev No. (such as #24015) - Machining parameter #12066 Upgrade the tool to B3 or a later version, and then set the parameters again.
16	Parameter	M8V Series M8 series E80	If you set the parameter "#8880 Subpro stor D0: dev", etc. to select "N:USB memory" as the subprogram storage for write to M800W, write the parameters to the NC, insert a USB memory, and then set "N:USB memory" again.
17	Communication	M8V Series M8 series E80 C80	When you write parameters to the NC while some of the parameters are protected by user level-based data protection on NC, the unprotected parameters are written, but those protected are not written.

Appendix 3

List of Error Messages

Appendix 3.1 List of Error Messages

Function	Message	Detail	Remedy
M6 Communication	Before you write "Non-open parameter" "PLC parameter","Position switch parameter" or "Machine error compensation" read the following cautions. (1) It may be necessary to adjust machine status again after exchanging the Non-open parameters between different machines. (2) It may be necessary to adjust machine status again after exchanging the Machine error compensation parameters between different machines. (3) It may be necessary to adjust machine status again after exchanging the Position switch parameters between different machines. (4) It is necessary to set ladder related parameters properly after exchanging the PLC parameters between different machines. Continue to write?	Selected one of the following and clicked [Write]: [Non-open parameter], [PLC parameter], [Posn switch param], [Machine error comp].	To write click [Yes], if not click [No].
M6 Communication	Haven't received any data in 30seconds. Press [YES] to continue to wait, or [NO] to cancel.	"Reading..." continued over 30 seconds.	To keep receiving click [Yes], to cancel click "No".
M6 Communication	No parameter data exists in the current project. Trouble may occur at NC if you write empty data. Continue?	On M60 [Write parameter to NC] screen select [NC side ready], without editing parameter selected already selected parameter and clicked [Write].	To write click [Yes], if not click [No].
M6 Communication	Could not write with no parameter specified.	After changing parameter of M60, pressed [NC side ready] without selecting any parameter on the [Write parameter to NC] screen, and then clicked [Write].	Select parameter to write after [OK] is clicked.
M6 Communication	Communication failed. Modified the communication parameter in project or NC and try again.	Time out without communicating.	check communication setting of PC and NC side, after [OK] is clicked.
M6 Communication	Data that have been read is not the data type specified. Confirm and retry.	Read data and selected data are different.	Retry after [OK] is clicked.
M6 Search	Could not search param by param No. without setting #1138 to "1".	Searched Parameter No. without setting "#1138 Pnosel".	Set "#1138 Pnosel" to "1", after [OK] is clicked.
M6 Initial Setup	The G28 approach speed is not set for ～ system ～ axis ～ . Set it and then initialize the parameters.	M6 series Initial Setup - On servo axis screen, clicked [Finish] without setting the system and G28crp of axis.	Set G28crp of part system axis and execute initial setup, after [OK] is clicked.
M6 Initial Setup	The G28 rapid traverse rate is not set for ～ system ～ axis ～ . Set it and then initialize the parameters.	M6 series Initial Setup - On servo axis screen, clicked [Finish] without setting the system and G28rap of axis.	Set G28rap of part system axis and execute initial setup, after [OK] is clicked.
M6 Initial Setup	The drive unit type is not set for ～ system ～ axis ～ . Set it and then initialize the parameters.	M6 series Initial Setup - On servo drive unit screen, clicked [Finish] without setting the system and drive unit name of axis.	Set drive unit name of part system axis and execute initial setup, after [OK] is clicked.
M6 Initial Setup	The drive unit capacity is not set for ～ system ～ axis ～ . Set it and then initialize the parameters.	M6 series Initial Setup - On servo drive unit screen, clicked [Finish] without setting the system and drive unit capacity of axis.	Set drive unit capacity of part system axis and execute initial setup, after [OK] is clicked.
M6 Initial Setup	The motor series is not set for ～ system ～ axis ～ . Set it and then initialize the parameters.	M6 series Initial Setup -On servo drive unit screen, clicked [Finish] without setting the system and moter series of axis.	Set moter series of part system axis and execute initial setup, after [OK] is clicked.
M6 Initial Setup	The motor type is not set for ～ system ～ axis ～ . Set it and then initialize the parameters.	M6 series Initial Setup - On servo drive unit screen, clicked [Finish] without setting the system and moter name of axis.	Set motor name of part system axis and execute initial setup, after [OK] is clicked.
M6 Initial Setup	The encoder is not set for ～ system ～ axis ～ . Set it and then initialize the parameters.	M6 series Initial Setup - On spindle screen, clicked [Finish] without setting detector type of axis.	Set detector type of part system axis and execute initial setup, after [OK] is clicked.
M6 Initial Setup	The maximum cutting feedrate is not set for ～ system ～ axis ～ . Set it and then initialize the parameters.	M6 series Initial Setup - On servo axis screen, clicked [Finish] without setting the system and maximum cutting feedrate of axis.	Set maximum cutting feedrate of part system axis and execute initial setup, after [OK] is clicked.

Function	Message	Detail	Remedy
M6 Initial Setup	The maximum feedrate is not set for ～ system ～ axis ～ . Set it and then initialize the parameters.	M6 series Initial Setup - On servo axis screen, clicked [Finish] without setting the system and maximum feedrate of axis.	Set maximum feedrate of part system axis and execute initial setup, after [OK] is clicked.
M6 Initial Setup	The absolute position detection method is not set for ～ system ～ axis ～ . Set it and then initialize the parameters.	M6 series Initial Setup - On servo axis screen, clicked [Finish] without setting the system and absolute position detection method of axis.	Set absolute position detection method of part system axis and execute initial setup, after [OK] is clicked.
M6 Initial Setup	The axis name is not set for ～ PLC axis. Set it and then initialize the parameters.	M6 series Initial Setup - On base system screen, part system number and PLC axis are set, and clicked [Finish] wtihout setting PLC axis name.	Set PLC axis name and execute initial setup, after [OK] is clicked.
M6 Initial Setup	The axis amount is not set for PLC axis. Set it and then initialize the parameters.	M6 series Initial Setup - On base System screen, clicked [Finish] without setting PLC axis number.	Set absolute position detection method of part system axis and execute initial setup, after [OK] is clicked.
M6 Initial Setup	All the initial setup data will be invalidated if you select [Cancel]. Are you sure you want to cancel?	M6 series Initial Setup - Clicked [Cancel] on base system screen.	To cancel click [Yes], if not click [No].
M6 Initial Setup	G code is not set for ～ system. Set it and then initialize the parameters.	M6 series Initial setup - On base System screen, G codes of related setting are not set.	Set G code of part system axis and execute initial setup, after [OK] is clicked.
M6 Initial Setup	The axis name is not set for ～ axis of ～ system. Set it and then initialize the parameters.	M6 series Initial Setup - On base system screen, set axis number to " ～ " and set system number, then clicked [Finish].	Set axis name of part system axis and execute initial setup, after [OK] is clicked.
M6 Initial Setup	The axis amount is not set for 1st system. Set it and then initialize the parameters.	M6 series Initial Setup - On base system screen, do not set axis number and set system number, then clicked [Finish].	Set axis number of part system 1 and execute initial setup, after [OK] is clicked.
M6 Initial Setup	The axis amount is not set for 2nd system. Set it and then initialize the parameters.	M6 series Initial Setup - On base system screen, do not set axis number and set system number, then clicked [Finish].	Set axis number of part system 2 and execute initial setup, after [OK] is clicked.
M6 Initial Setup	The system amount is not set. Set it and then initialize the parameters.	M6 series Initial Setup - On base system screen, clicked [Finish] without setting nothing.	Set part system and execute initial setup, after [OK] is clicked.
M6 Initial Setup	The specified name already exists at ～ axis of ～ system.Specify another name.	M6 series Initial Setup - Set loverlapped axis name on base system screen.	Set other axis name, after [OK] is clicked.
M6 Initial Setup	The encoder gear ratio is not set for ～ spindle. Set it and then initialize the parameters.	M6 series Initial Setup - On spindle screen, clicked [Finish] without setting encoder gear ratio of axis.	Set encoder gear ratio of part system spindle and execute initial setup, after [OK] is clicked.
M6 Initial Setup	The minimum rotation speed is not set for ～ spindle. Set it and then initialize the parameters.	M6 series Initial Setup - On spindle screen, clicked [Finish] without setting minimum rotation speed of axis.	Set minimum rotation speed of part system spindle and execute initial setup, after [OK] is clicked.
M6 Initial Setup	The spindle encoder is not set for ～ spindle. Set it and then initialize the parameters.	M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle encoder connection.	Set spindle encoder connection and execute initial setup, after [OK] is clicked.
M6 Initial Setup	The spindle drive unit type is not set for ～ spindle. Set it and then initialize the parameters.	M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle drive unit name.	Set spindle drive unit name of part system spindle and execute initial setup, after [OK] is clicked.
M6 Initial Setup	The spindle connection is not set for ～ spindle. Set it and then initialize the parameters.	M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle connection type.	Set spindle connecting type of spindle and execute initial setup, after [OK] is clicked.
M6 Initial Setup	The number of spindles is not set. Set it and then initialize the parameters.	M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle number.	Set spindle number and execute initial setup, after [OK] is clicked.
M6 Initial Setup	Initial setup data will replace the current parameter settings, continue?	On M6 series initial setup, set initial setup and clicked [Finish].	To switch click [Yes], if not click [No].
Print	None of Servo axis selection has been checked in the System/axis selection.	On System/Axis selection without selecting servo axis, on print screen selected parameter of servo axis, and clicked [Priview] or [Print].	Select servo axis on System/Axis selection, after [OK] is clicked.
Print	Please set the range of system or axis.	Non of the check boxes are selected on System/Axis Selection screen.	Set System/Axis selection of servo axis and execute initial setup, after [OK] is clicked.
Print	None of system selection has been checked in the System/axis selection.	On System/Axis selection without selecting system, on print screen selected parameter of system, and clicked [Priview] or [Print].	Select system on System/Axis Selection screen, after [OK] is clicked.

Function	Message	Detail	Remedy
Print	（None of system selection has been checked in the System/axis selection. None of Servo axis selection has been checked in the System/axis selection. None of spindle selection has been checked in the System/axis selection. None of PLC index axis selection has been checked in the System/axis selection.) Continue to print the other parameters?	On print screen select system, axis or BaseCom param, without selecting system or axis on System/Axis selection, and clicked [Priview] or [Print]. Message inside of () changes by selected contents.	To print only selected part click [Yes], to cancel click [No].
Print	None of spindle selection has been checked in the System/axis selection.	On System/Axis selection without selecting spindle, on print screen selected parameter of spindle, and clicked [Priview] or [Print].	Select spindle on System/Axis selection screen, after [OK] is clicked.
Print	None of PLC index axis selection has been checked in the System/axis selection.	Selected PLC axis param to print for C70, although no PLC axis is specified on the System/Axis selection screen.	Select PLC axis on System/Axis selection screen, after [OK] is clicked.
Print	PLC index parameter is not exist. 1.Please set the PLC axis to be valid(#1001,#1002). 2.Please set the PLC index axis to be valid(#12800).	Selected PLC Index param and executed print for C70, although there is no PLC axis or PLC Index param setting.	Set PLC axis or PLC Index param, after [OK] is clicked.
Print	Failed to print the data! No system configuration data exist, please read or import system configuration data .	There is no system configuration information when [Preview] or [Print] is clicked.	Load system configuration infromation by NC or import, after [OK] is clicked.
Import/Export	Failed to import ～ .	Format of importing NC data file is different.	Check import file (" ～ " part), after [OK] is clicked.
Import/Export	Data importing failed.The format of the parameter file is incorrect. 1.Please check if the file is parameter file.	The file attempted to import is not a parameter file.	Check import file, after [OK] is clicked.
Import/Export	Data importing failed.Could not find the parameter # ～ .Please check the parameter file.	Parameter displayed by error message is not inclued in parameter file.	Check to see if there is a parameter that displays error message on import file, after [OK] is clicked.
Import/Export	Data importing failed.The value of parameter # ～ is incorrect.Please check the value of parameter # ～ in the NC machine.	Set point of parameter that is displayed by error massage is out of range.	Check parameter set point displayed by error massage on import file, after [OK] is clicked.
Import/Export	Data importing failed.The setting value of the #1007 do not match #1037.	There is inconsistency of the related setting between "#1007 System type select" and "#1037 cmdtyp" in the parameter file to import (for M70 and M70V).	Check set point of import file "#1007 System type select" and "#1037 cmdtyp", after [OK] is clicked.
Import/Export	Data importing failed.The NC type which is importing parameter file is different from the one you chose.	Contents of impoort file and series selected on importing screen differs.	Reexecute import and select correct series, after [OK] is clicked.
Import/Export	Data importing failed.The system type (#1037) which is importing parameter file is different from the one you chose.	Contents of impoort file and system type selected on importing screen differs.	Reexecute import and select correct system type, after [OK] is clicked.
Import/Export	Data importing failed.The NC type which is importing parameter file is different from the one in the project.	The NC model selected in the file to be imported is different from that of the import target project.	Check series of import object and reexecute import after [OK] is clicked.
Import/Export	Data importing failed.The system type (#1037) which is importing parameter file is different from the one in the project.	The system type of the file to be imported is different from that of the import target project.	Check system type of import object and reexecute import after [OK] is clicked.
Import/Export	Machining program importing failed. 1.Check if the length of the machining program name is correct.	Clicked the [+] button for a machining program on the Import machining program or Project management screen, while the file has more than 32 letters.	Check file name, after [OK] is clicked.
Import/Export	A machining program may already exist in the project, replace it?	Attempted to import machining program that is same name as the machining program in the project.	To import and replace with existing machining program click [Yes], not to import click [NO].
Import/Export	Parameter importing failed.	There is inconsistency with the parameter file to be imported, or there is a difference in the NC model or system type between the parameter file to be imported and the project.	Check parameter file, after [OK] is clicked.
Import/Export	Could not open multiple files at once.	Imported 2 or more parameter file to NC Configurator2.	To cancel import click [OK].

Function	Message	Detail	Remedy
Import/Export	Data importing failed.Please make sure that the file to import meets the following. When the file to import is an NC data file, the extension must be *.PRM, *.TLF, *.OFS, *.VAR, *.PRG, *.TXT or *.INF.	Attempted to import any file except for the following: .PRM, .TLF, .OFS, .VAR, .PRG, .TXT, .INF	Check importing NC data file, after [OK] is clicked.
Import/Export	Data importing failed.Please make sure that the file to import meets the following. 1. When the file is a project file, the extension must be *.nc2, *.ncp or *.cpg. 2. When the file is an NC data file, the extension must be *.PRM, *.TLF, *.OFS, *.VAR, *.PRG, *.TXT or *.INF.	Opened any file except for the following using D&D: project file, .PRM, .nc2, .ncp, .cpg, NC data file, .PRM, .TLF, .OFS, .VAR, .PRG, .TXT, .INF	Check importing NC data file, after [OK] is clicked.
Import/Export	Data importing failed.Please make sure that the file to import meets the following. 1. When the file is a project file, the extension must be *.nc2, *.ncp or *.cpg. 2. When the file is an NC data file, the extension must be *.PRM, *.OFS, *.VAR, *.PRG or *.TXT.	Opened any file except for the following using D&D: project file, .PRM, .nc2, .ncp, .cpg, NC data file, .PRM,.OFS,.VAR,.PRG,.TXT (C70)	Check importing NC data file, after [OK] is clicked.
Import/Export	Data importing failed.Please make sure that the file to import meets the following. When the file to import is an NC data file, the extension must be *.PRM, *.BIN, *.TLF, *.OFS, *.VAR, *.PRG, *.TXT, *.INF or *.DAT.	Attempted to import any file except for the following: .PRM,.BIN,.TLF,.OFS,.VAR,.PRG, .TXT,.INF,.DAT (M8V/M8/E80)	Check importing NC data file, after [OK] is clicked.
Import/Export	Data importing failed.Please make sure that the file to import meets the following. 1. When the file is a project file, the extension must be *.nc2, *.ncp or *.cpg. 2. When the file is an NC data file, the extension must be *.PRM, *.BIN, *.TLF, *.OFS, *.VAR, *.PRG, *.TXT, *.INF or *.DAT.	Opened any file except for the following using D&D: project file, .PRM, .nc2, .ncp, .cpg, NC data file, .PRM,.BIN,.TLF,.OFS,.VAR, .PRG,.TXT,.INF,.DAT (M8V/M8/E80)	Check importing NC data file, after [OK] is clicked.
Import/Export	Data importing failed.Please make sure that the file to import meets the following. When the file to import is an NC data file, the extension must be *.PRM, *.OFS, *.VAR, *.PRG or *.TXT.	Attempted to import any file except for the following: PRM,.OFS,.VAR,.PRG, .TXT (C70)	Check importing NC data file, after [OK] is clicked.
Import/Export	Data importing failed. Please make sure that the file to import meets the following. When the file to import is an NC data file, the extension must be *.PRM, *.OFS, *.VAR, *.PRG or *.TXT.	NC data file .PRM,.TLF,.OFS,.VAR,.PRG, .TXT,.INF,or .DAT (.DAT is only for M8V/M8/E80 series project or when there is no project) is 0 byte. Or the file format of the system configuration (.INF) is illegal.	Check importing NC data file, after [OK] is clicked.
Import/Export	M700/M700V parameter converts to M800 parameter. Continue?	Imported a parameter of M700/M700V to the project of M800.	Click [Yes] to convert to M800, or click [No] not to import.
Import/Export	M70/M70V parameter converts to M80 parameter. Continue?	Imported a parameter of M70/M70V to the project of M80.	Click [Yes] to convert to M80, or click [No] not to import.
Import/Export	M700/M700V parameter converts to M800V parameter. Continue?	Imported a parameter of M700/M700V to the project of M800V.	Click [Yes] to convert to M800V, or click [No] not to import.
Import/Export	M70/M70V parameter converts to M80V parameter. Continue?	Imported a parameter of M70/M70V to the project of M80V.	Click [Yes] to convert to M80V, or click [No] not to import.
Import/Export	M80V parameter converts to M80 parameter. Continue?	Imported a parameter of M80V to the project of M80.	Click [Yes] to convert to M80, or click [No] not to import.
Import/Export	M80 parameter converts to M80V parameter. Continue?	Imported a parameter of M80 to the project of M80V.	Click [Yes] to convert to M80V, or click [No] not to import.
Import/Export	M800V parameter converts to M800 parameter. Continue?	Imported a parameter of M800V to the project of M800.	Click [Yes] to convert to M800, or click [No] not to import.
Import/Export	M800 parameter converts to M800V parameter. Continue?	Imported a parameter of M800 to the project of M800V.	Click [Yes] to convert to M800V, or click [No] not to import.

Function	Message	Detail	Remedy
Import/Export	Data importing failed.Please check as follows: 1.The value of parameter #1001 or #1002 is incorrect. 2.The value of #1001 and #1002 do not match. 3.The sum of servo axes(NC axis and PLC axis) is out of setting range. Please check the parameter file.	The number of part systems or axes set in the import file, or set in the parameter of the import file or existing project, is exceeding the specified setting range. There is inconsistency.	Check importing parameter file, after [OK] is clicked.
Import/Export	Data importing failed. The system of which #1001=1, #1002=0 is existed in the parameter. Please import again after set #1002.	A part system where the parameters are set as #1001=1 and #1002=0 is present in M8V/M8/E80 series.	Check the import parameter file, after [OK] is clicked. When #1001 is "1" and #1002 "0", set #1002 to a value other than "0".
Import	The common variable data already exists in the project, replace it?	Imported a common variable data while it already exists.	Click [Yes] to replace the file, and click [No] to cancel the process.
Import	The work offset data already exists in the project, replace it?	Imported a work offset data while it already exists.	Click [Yes] to replace the file, and click [No] to cancel the process.
Import	The tool compensation data already exists in the project, replace it?	Imported a tool compensation file while it already exists.	Click [Yes] to replace the file, and click [No] to cancel the process.
Import	The tool life data already exists in the project, replace it?	Imported a tool life file while it already exists.	Click [Yes] to replace the file, and click [No] to cancel the process.
Import	Common variable importing failed. Check the format of the file.	Imported a common variable file in a wrong file format.	Check importing NC data file, after [OK] is clicked.
Import	Work offset importing failed. Check the format of the file.	Imported a work offset file in a wrong file format.	Check importing NC data file, after [OK] is clicked.
Import	Tool compensation importing failed. Check the format of the file.	Imported a tool compensation file in a wrong file format.	Check importing NC data file, after [OK] is clicked.
Import	Tool life importing failed. Check the format of the file.	Imported a tool life file in a wrong file format.	Check importing NC data file, after [OK] is clicked.
Import	Tool compensation and Tool life importing failed. Check the format of the file.	Imported all tool data file in a wrong file format.	Check importing NC data file, after [OK] is clicked.
Import	The total file size exceeded.	Imported file size exceeded 5MB.	Check NC data file, after [OK] is clicked. (A file greater than 5MB cannot be imported)
Online	NC is running. Online can not be performed.	NC operated online during automatic operation.	Change paramter after automatic operation has stopped, after [OK] is clicked.
Online	Change the parameter value of # ～ from [～] to [～] ?	Changed set point of paramter during online.	To change click [Yes], not to change click [No].
Online	Data error. Online setting failed.	The set parameter value is out of the NC setting range.	Imput value within setting range, after [OK] is clicked.
Online	Do not create multi online project for the same IP address.	Tried to create multiple online project to NC that has same IP address.	Check online project that has already started, after [OK] is clicked.
Starting	Loading help information. Please wait.	Finished NC Configurator2 instantly after starting it.	Finish again, after [OK] is clicked.
Starting	System error Can not find necessary files for running NC Configurator2. Please install NC Configurator2 again.	The installation file was damaged or necessary files for running were not found.	Install NC Configurator2 again, after [OK] is clicked.
Initialization Wizard	NC Configurator2 initialization failed. Make sure NC Configurator2 was installed correctly.	File necessary to initial setup is not installed correctly.	Install NC Configurator2 again, after [OK] is clicked.
Initialization Wizard	Failed to delete the axis. It is the only PLC axis.	Clicked [Delete Axis] on the Basic information screen while there is one PLC axis.	On Common setting screen set PLC axis value to 0 axis.
Initialization Wizard	Failed to delete the axis. It is being used as spindle C axis. Please cancel the spindle C axis setting and then retry.	Clicked [Delete Axis] on the [Basic information] screen while Spindle/C Axis is selected for the object axis.	Execute delete after canceling Spindle C axis setting.
Initialization Wizard	Failed to delete the axis. It is being used as slave axis in synchronous control. Please cancel the synchronous control setting and then retry.	Clicked [Delete Axis] on the Basic information screen while object axis is slave axis of Synchronous control.	Execute delete after canceling setting of Synchronous control.
Initialization Wizard	Failed to delete the axis. It is the only axis in this part system.	Clicked [Delete Axis] on the Basic information screen while servo axis is 1 axis only.	Cannot delete any axis of the 1st part system. To delete any axis of the 2nd or subsequent part system, go to the Common setting screen and change the number of axes to zero.

Function	Message	Detail	Remedy
Initialization Wizard	Machine side signal resolution is invalid. Please ensure that the signal resolution is greater than 0.	On servo advanced settings, when [Finish] is clicked value of machine side resolution is out of range.	Change the machine side signal resolution to be within the specified range.
Initialization Wizard	Failed to insert axis. Number of PLC axis has reached the max.	On Basic information screen when [Insert] is clicked the PLC axis value has reached the max.	To insert axis other PLC axis needs to be deleted.
Initialization Wizard	Failed to insert axis. Axis number of this part system has reached the max.	On Basic information screen when [Insert] is clicked the system value has reached the max.	To insert axis other same system axis needs to be deleted.
Initialization Wizard	Failed to insert spindle. Number of spindle has reached the max.	On Basic information screen when [Insert] is clicked the spindle value has reached the max.	To insert axis other spindle needs to be deleted.
Initialization Wizard	Please set the axis number in continual system No. order.	On common setting screen, it will display when [Next] is clicked, axis value is set, axis value is set after 0 axis is set.	Carry out the axis number setting again so that the number of axes of any part systems other than the top or last will not be zero.
Initialization Wizard	Failed to delete the spindle. It is the only spindle.	On Basic information screen when [Delete Axis] is clicked, one spindle only.	On Common setting screen Spindle value to 0 axis.
Initialization Wizard	Are you sure to cancel the new project initialization?	It will display when [Cancel] is clicked on General Settings, Basic setting, or Setting check screen of the Initialization Wizard at the time of creating a new project.	To cancel initialization click [Yes], to continue click "No".
Initialization Wizard	No. of control axis(NC axis+PLC axis+Spindle) has exceeded the max. The setting will be regarded as out of the range of specification when do not set spindle C axis. Continue?	On common setting when [Next] is clicked the Control axis value (NC axis + PLC axis + Spindle) has already reached the max.	To set spindle C axis click [Yes], not to set click [No], and change total of Control axis value under the max.
Initialization Wizard	Failed to insert axis. NC axis total number of all part systems has reached the max.	On Basic information screen when [Insert] is clicked, the total value of all system NC axis value has already reached the max.	To insert axis other axis needs to be deleted.
Initialization Wizard	Axis number of all part systems has exceeded the max.	On Common setting screen when [Next] is clicked, the total value of all system NC axis value has reached the max.	Change NC axis value to under the max.
Initialization Wizard	Machine side signal resolution is invalid. Please ensure that the signal resolution is greater than 0.	Set value of machine side resolution is not right.	Set a value larger than 0 for the machine side signal resolution.
Initialization Wizard	Servo axis' rotary switch setting is wrong. Please set rotary switch in CH1-1, CH1-2 or CH1-3 when Drive unit choose DM/DM2-SPVx.	Although the servo drive unit is DM or DM2-SPVx, the rotary switch setting is other than the following: CH1-1, CH1-2 or CH1-3.	Servo axis drive unit is DM/DM2-SPVx and select CH1-1、CH1-2、CH1-3 from Rotary switch.
Initialization Wizard	Spindle's rotary switch setting is wrong. Please set rotary switch in CH1-0 when Drive unit choose DM/DM2-SPVx.	Spindle drive unit is DM/DM2-SPVx and Rotary switch is selecting except CH1-0.	If spindle drive unit is DM/DM2-SPVx and select CH1-0 from Rotary switch.
Initialization Wizard	Existing servo axis or spindle can not be deleted.	Tried to delete existing axis when using parameter initialization wizard to existing project.	Click [OK].
Initialization Wizard	There are NC axes which set as slave axis in synchronous control. Please check setting of parameter #1068.	Set as slave axis in synchronous control when using parameter initialization wizard on an existing project.	Check the setting value of parameter "#1068 slavno (Slave axis number)" on the parameter screen.
Initialization Wizard	There are NC axes which set as spindle C axis. Please check setting of parameter #1017, #1020 and #1021.	Set as spindle C axis when using parameter initialization wizard on an existing project.	Check the setting value of parameter "#1017 rot (rotational axis)", "#1020 sp_ax (Spindle interpolation)", and "#1021 mcp_no(Drive unit I/F channel No. (servo))" on the parameter screen.
Initialization Wizard	Number of servo axes (NC axis+PLC axis) has exceeded the max.	Number of servo axes has exceeded the max when [Next] is clicked.	Click [OK], and change the number of the axis under the limited value.
Initialization Wizard	Failed to insert axis. Number of servo axes (NC axis+PLC axis) has reached the max.	On Basic information screen when [Insert] is clicked, number of servo axes has reached the max.	Click [OK].
Initialization Wizard	Failed to initialize NC Configurator2. Take the following measures. 1. Reinstall NC Configurator2. 2. Move the project file to be opened to a path that does not contain fullwidth characters.	The error occurs when any of the following conditions exist at the startup of NC Configurator2. 1. When there are no database files in the installation folder 2. When there are no setting files 3. When the project file whose path contains a fullwidth character is double-clicked	Click [OK] to reinstall NC Configurator2 or move the project file to be opened to a path that does not contain fullwidth characters.
Initialization Wizard	NC Configurator2 initialization failed. Please install NC Configurator2 again.	No database file is present in the installation folder for NC Configurator2 when starting NC Configurator2.	Click [OK] to install NC Configurator2 again.

Function	Message	Detail	Remedy
Initialization Wizard	The alarm will be displayed when write the current value of parameter #1603 to NC which has 5 systems or more. Please make sure the axis device assignment No. of each axis and set axis device assignment No. (except 0) for all axes of parameter #1603.	The number of NC part systems has been set to 5 or greater in the Initialization Wizard when creating a new project. Thus an error occurs if write to the NC is performed without setting the parameter #1603.	Click [OK], check the axis device assignment No. of each axis, and then set the parameter "#1603 PLCdev_no (Axis device assignment No.)" for all axes.
Initialization Wizard	Number of control axes(NC axis+PLC axis+Spindle) has exceeded the max. Please change the number of axes or set spindle C axis.	When writing to the NC without setting spindle C axis, the error occurs because the number of axes has exceeded the maximum in the Initialization Wizard at the time of creating a new project.	Set spindle C axis or change #1039, after [OK] is clicked.
Initialization Wizard	Are you sure to cancel the initialization?	It will display when [Cancel] is clicked on Basic setting or Setting check screen of the Initialization Wizard after creating a project.	To cancel initial setting click [Yes], to continue click "No".
Initialization Wizard	The setting value of Motor:Machine gear ratio is invalid. Set the gear ratio value separated by ":".	The error occurs when a colon ":" is not included in "Motor:Machine gear ratio" in the [Servo Advanced Settings] screen of the Initialization Wizard at the time of creating a new project.	Separate "Motor:Machine gear ratio" with a colon.
Initialization Wizard	The setting value of Motor:Spindle Gear ☐ is invalid. Set the gear ratio value separated by ":". (*) A number (1 to 4) will be displayed in ☐ .	The error occurs when a colon ":" is not included in "Motor:Spindle Gear ☐ " in the [Spindle Advanced Settings] screen of the Initialization Wizard at the time of creating a new project.	Separate "Motor:Spindle Gear" with a colon.
New Project	Can only open one M60 project.	Tried to make 2 or more M60 project.	Click [OK].
New Project Project Open	Maximum number of NC projects exceeded.	Created a new project or opened an existing project with eight projects already present.	Exit project working before creating or opening new one, after [OK] is clicked.
Project Open	Failed to read the file. The possible causes are as follows. [1] The file is corrupted. [2] The file type is different.	Opened a project file that is corrupted or is a different file type.	Click [OK].
Tool	Delete all the ～ data in this project?	Clicked [-] on project management screen.	To delete all click [Yes], if not click [No].
Tape Mode	No machining program was specified. Double click to open a program from the list.	No machining program is selected on the Tape mode or Current program screen.	Select program from machining program list.
Tape Mode	Machining program is unspecified. Specify a program and retry.	Clicked [OK] without selecting machining program on machining program editing screen.	Select machining program, after [OK] is clicked.
Tape Mode	The specified file is not a program file.	Selected file is not a machining program file.	Select correct machining program, after [OK] is clicked.
Close	Project data was changed. Save the changes?	Tried to exit changed project.	To save click [Yes],if not to save click [No], to cancel operation click [Cancel].
Close	The specified file name, path name or format".nc2" is invalid.	File name, format, etc. are not correct.	Input correct file name, after [OK] is clicked.
Parameter Comparison	Select two projects to compare parameters.	When displaying the [Project comparing] screen, selected just one project and did not select another project for comparison.	Select comparing project, after [OK] is clicked.
Parameter Comparison	Both of the two projects should be M8 series/E80/M7 series/E70 projects or C70 projects or C80 projects.	The models of the selected source and target projects cannot be compared.	Select two projects, after [OK] is clicked.
Parameter Comparison	Please make sure that a kind of parameter is chosen at least.	A kind of parameter was not chosen.	Select a kind of parameter, after [OK] is clicked.
Parameter Comparison	Please select same type to compare.	The types of part systems or axes selected for the system/axis selection are different.	Select the same type (part system, servo axis, spindle) for the source project and target project, after [OK] is clicked.
Parameter Comparison	Please select different contents to compare.	Specified the same project for the source project and target project, and clicked [Compare] with either of the following settings. (1)[All] selected and check boxes for parameter types checked. (2)[Sys/Ax] selected and the same boxes checked for "Source project" and "Target project".	Select [Sys/Ax select] and different system or different axis of the same type (system, servo axis, spindle) when comparing in the same project, after [OK] is clicked.

Function	Message	Detail	Remedy
Parameter Comparison	Parameter type, the number of system or axis and other project conditions have been changed. Refresh these contents on param comparison. Please compare again after checking selected contents.	(1) Any change has been made in the number of part systems, servo axes, or spindles of the source or target project after the comparison items were selected. Or the parameter type has changed due to parameter setting. (2) The number of part systems, servo axes or spindles of the source or target project is different between before and after the comparison.	Check the updated comparison contents and compare again, after [OK] is clicked.
Parameter Comparison	The parameter can not be modified because it does not display on screen.	(1) After the comparison, the parameter type of the source project and target project was hidden due to parameter setting. (2) After the comparison, the target parameter was hidden on the parameter screen.	Check the target parameter and related parameter, after [OK] is clicked.
Parameter Setting	Please input the password	Tried to set machine parameter without inputting password.	Input password.
Parameter Setting	Setting error	Set value of parameter is not correct.	Input correct value to parameter.
Parameter Setting	No. of control axis has exceeded the max.	The number of axes (NC axis + PLC axis + Spindle - Spindle C axis) has exceeded the maximum.	Input correct value to parameter.
Parameter Setting	Data importing failed.The format of the safety parameter file is incorrect. Please make sure that the file to import is a safety parameter file.	Imported file is not a safety parameter file. Or imported safety parameter file has a wrong file format.	Click [OK].
Parameter Conversion	Conversion failed. Confirm whether the source file is M6 parameter file.	On the Convert screen, conversion source parameter is not M6 parameter file.	Check conversion source M6 parameter file, after [OK] is clicked.
File Operation	Failed to open the file.	Opened Project already opend by ParaGuider by NC Configurator2.	Exit file opened by ParaGuider before opening it by NC Configurator2, after [OK] is clicked.
File Operation	Failed to open the file.	Opened C70 project file including common variable created by NC Configurator by NC Configurator2. (Common variable can not open because of different format.)	Click [OK], move "COMMON.VAR" stored in the [DAT] folder leveled the same as the project file, to anywhere outside this folder, and then open the project again via NC Configurator2.
Project Save・Open	～ already exists, replace?	There is existing file name at file save screen.	To overwriteclick [Yes], if not click [No].
Project Save・Open	A project with the name 'project name' is already open. You cannot open two projects with the same name, even if the projects are in different folders. To open the second project, either close the project that's currently open,or rename one of the projects.	Tried to open project that is same name as project that is already opened. (At "Project name", actual poroject name will display.)	Close same named project before opening the project.
Project Save・Open	"project name" was changed.Save the changes?	Tried to close the project after changing parameter. (At "Project name", actual poroject name will display.)	To save click [Yes], not to save and close directly click [No], and to cancel closing process click [Cancel].
Project Save・Open	A project with the same name exists at this location. Please choose another name.	Tried to save project as same name as project that is opened by NC Configurator2.	Specify different name, after [OK] is clicked.
License	The product ID was incorrect.	On Register screen, inputted invalid ID.	Input correct ID, after [OK] is clicked.
Machining Condition Selection I	Initialize the parameters of machining condition parameter group. Yes:Copy the standard parameter value to all the parameters in machining condition parameter group. No:Cancel.	Clicked [Execute init] at [Machining Condition Selection I.].	To execute initialization click [Yes], if not click [No].
Communication	～ setting error. Parameter writing abnormal ended.	When writing parameter, error occurred by range check of NC.	Check settings of parameters from error massage, after [OK] is clicked.
Communication	NC is running.Parameters can not be written to NC.	Tried to write while NC is in automatic operation	Change parameter after automatic operation stops, after [OK] is clicked.

Function	Message	Detail	Remedy
Communication	NC type is different between the project and the NC. Update NC type information from NC? Yes: Update NC type information and write. No: Write directly. Cancel: Not writing.	On NC write (parameter) screen, series name of NC project and write to NC differs	To Write after read in series name of NC click [Yes], to write out directly click [No], to not to write click [Cancel].
Communication	Read the preview data into the project?	Clicked [Preview] on the [Read] screen via NC, and then clicked [Close].	To read click [Yes], if not click [No].
Communication	Parameter reading failed.	Setting contents of NC is not right.	Check parameter setting contents of NC, after [OK] is clicked.
Communication	Parameter reading failed. Please check whether PR was displayed on the NC screen. Restart NC when PR was displayed.	PR is displayed on NC, and there is no consistancy of parameter.	Read after NC is restarted, afte [OK] is clicked.
Communication	Parameter reading failed.The value of parameter # ～ is incorrect. Please check the value of parameter # ～ in the NC machine.	On NC there is no consistancy of parameter	Check setting value of object parameter of NC, after [OK] is clicked.
Communication	Tool life reading failed. 1.The tool life management type of the project may do not match NC side.Please check the parameter #1096.	Corresponds to contents of 1 in error message.	Check setting value of object parameter of NC, after [OK] is clicked.
Communication	Tool comp. amount reading failed. 1.The tool compensation type of the project may do not match NC side.Please check the parameter #1037. 2.Check if any necessary #1013 or #1003 is unspecified at NC side. Set all and then retry.	Corresponds to contents of 1 and 2 in error message.	Check setting value of object parameter of NC, after [OK] is clicked.
Communication	Writing data now. End now?	Canceled writing during serial communication.	To cancel click [Yes], if not click [No].
Communication	No file selected. Select the file to write and try again.	Clicked [Send] without selecting a file to send on the Send text screen of Standard RS232C communication.	Select wirte file before reexecuting, after [OK] is clicked.
Communication	The NC to communicate is unspecified. Select a NC by communication setting now?	On Read from NC to Write to NC screen, clicked read or write without setting communication settings.	To specify click [Yes], if not click [No].
Communication	Communication failed. Check the following items and then try again. 1. The NC is running normally? 2. NC is connected to computer correctly? 3. #6451/bit5 and #8109 is set to "0" at the NC? 4. NC side communication parameters are set to standard values? 5. The communication port and baud rate of the computer have been specified correctly?	Communication failed in M60S. (when NC communication test continued over 60 sec. after you clicked [Communication test] on the Serial communication screen of Communication settings)	Check communication settings, after [OK] is clicked.
Communication	Communication test failed	The connection test with the selected NC has failed on the Communication settings screen.	Restart communication settings screen and select NC again and execute test.
Communication	Communication failed. 1.Please check if the IP address exists. 2.Please check the communication cable. 3.Please check the power of the NC. 4.Please check if the data of NC is protected(KEY1/KEY2/KEY3).(*1) 5.Please check if the connect pattern is corrected.(*1) 6.Please check if the communication settings is corrected.(*1)	Failed to communicate. (*1) is displayed only on C70.	Check connection state after [OK] is clicked.
Communication	Communication failed. 1.Please check if the IP address exists. 2.Please check the communication cable. 3.Please check the power of the NC. 4.Please check if the IP is M8 series, E80, M7 series or E70.	Failed to communicate to online connection.	Check connection state after [OK] is clicked.

Function	Message	Detail	Remedy
Communication	Parameter reading failed because the NC type or system type of the parameter file is different from the one in the project. But M70 and M70V/E70,M700 and M700V with the same system type can communicate.	(1) The NC models selected by NC and NC Configurator2 are different. (possible to communicate between M70 and M70V/E70, or between M700 and M700V) (2) The system types selected by NC and NC Configurator2 are different. In the case (1) or (2) as stated above, you clicked [Preview] or [Read] on the Read screen.	(1) Click [OK] and check the NC models and system types of NC and NC Configurator2.
Communication	Parameter writing failed because the NC type or system type of the parameter file is different from the one in the project. But M70 and M70V/E70,M700 and M700V with the same system type can communicate.	(1) The NC models selected by NC and NC Configurator2 are different. (possible to communicate between M70 and M70V/E70, or between M700 and M700V) (2) The system types selected by NC and NC Configurator2 are different. In the case (1) or (2) as stated above, you clicked [Preview] or [Read] on the Read screen.	(1) Click [OK] and check the NC models and system types of NC and NC Configurator2.
Communication	Communicating. Are you sure you want to exit?	Selected cancel during serial communication.	To end click [OK], if not click [No].
Communication	Communicating. End now?	Clicked [Communication test] and then [x] on the Serial communication screen.	To end click [OK], if not click [No].
Communication	The same type data already exists in the project, replace it? If the data file for reading or importing is a program file, it will be added to the project but the programs in the project won't be cleared.	(1) Attempt to import parameter. (2) Attempt to import file to machining program.	To keep inporting click [Yes], to cancel click "No".
Communication	The parameter has not changed. Not necessary to write again.	Although no parameter change has been made since the last parameter write (or read), selected a parameter to write on the [Write to NC] screen.	Click [OK].
Communication	Please select the parameter while reading the NC data.	Did not select parameter when clicking [Create a new project].	Press create a new project again after selecting parameter, after [OK] is cliked.
Communication	Please set the IP address.	IP adrees is not set when online.	Set communication setting again, after [OK] is clicked.
Communication	Parameter reading failed.Please check as follows: 1.The value of parameter #1001 or #1002 is incorrect. 2.The value of #1001 and #1002 do not match. 3.The sum of servo axes(NC axis and PLC axis) is out of setting range.	Any of the NC parameter settings is exceeding the specified range of the number of part systems or axes. There is inconsistency.	Check NC parameter setting value, after [OK] is clicked.
Communication	Parameter reading failed. The system of which #1001=1, #1002=0 is existed in the parameter. Please read again after set #1002 on the NC.	The system of which #1001=1, #1002=0 exists in M8 series.	If the setting is #1001=1 and #1002=0 on NC, set the value other than 0 to #1002 after [OK] is clicked.
Communication	Can not communicate with the following data in NC of which data protection key is valid. Please communicate again after change data protection key to invalid by consulting the machine maker manual. Parameter KEY2 (*1) Tool compensation KEY1 (*1) Tool life KEY1 (*1) Common variable KEY2 (*1) Work offset KEY1 (*1) Program KEY3 (*1)	Data protection key is valid on NC. The display of (*1) differs depending on the status of data protection key and communication target data.	Check the data protection key state on NC, after [OK] is clicked.
Communication	Can not read programs of No.8000~9999 from NC of which data is in edit lock B.	Edit lock B is enabled (#8105=1) on NC.	Check the edit lock B state on NC, after [OK] is clicked.
Communication	Can not read programs of No.9000~9999 from NC of which data is in edit lock C.	Edit lock C is enabled (#1121=1) on NC.	Check the edit lock C state on NC, after [OK] is clicked.

Function	Message	Detail	Remedy
Communication	Can not communicate with NC of which parameter lock is valid. Please communicate again after unlock by consulting the machine maker manual.	Parameter lock is valid on NC.	Check the parameter lock state on NC, after [OK] is clicked.
Communication	Can not communicate with NC of which operation level is low.	The NC data communication is limited by setting user level-based data protection operation level on NC.	Check the protection level on the protection setting screen of NC, after [OK] is clicked.
Communication	Safety parameter writing failed. Use one of the following methods to cancel the safety password. 1. Input the machine tool builder password when the parameter “#51013 SF_PSWD” has not been set on the NC. 2. Input the safety password when the parameter “#51013 SF_PSWD” has been set on the NC.	Safety parameter writing failed due to a safety password issue.	Check the password setting state for the safety parameter on NC, after [OK] is clicked.
Communication	Safety parameter reading failed. Please make sure that smart safety observation is enabled on the NC.	Smart safety observation is not enabled on the NC.	Make sure that smart safety observation is enabled on the NC, after [OK] is clicked.
Communication	Parameter writing ended abnormally, because the parameter number setting is incorrect or smart safety observation is not enabled.	Smart safety observation is not enabled on the NC, or the parameter value is outside the setting range.	Make sure that the parameter value to be written is inside the setting range, or smart safety observation is enabled on the NC, after [OK] is clicked.
Communication (C70)	Parameter reading failed.The format of the parameter file is incorrect.	The file to be read is not a parameter file.	Check the file to be read, after [OK] is clicked.
Communication/ Import	Common variable's system number is different with project's.	Common variable's system number is different with project's.	Click [OK].
Communication/ Import	Work offset file's system number is different with project's.	Work offset file's system number is different with project's.	Click [OK].
Communication/ Import	System number of tool life is different from project's.	System number of tool life is different from project's.	Click [OK].
Communication/ Import	System number of work offset is different from project's.	System number of work offset is different from project's.	Click [OK].
Modification History	Cannot resume the value of parameter # ～ from antecedent.The reason may be as follows: 1.This parameter is not exist. 2.The axis No. of parameter or system No. which is resumed is not exist. 3.This parameter can not be edited. (Correlative parameter wasn't set or the password wasn't inputted.)	Due to a change of the link parameter setting, the parameter state has changed, and cannot be restored by double-clicking the parameter modification history.	Check state of object parameter after [OK] is clicked.
Modification History	Recover the value of parameter # ～ (System/Axis No.: ～ / ～) from [～] to [～], continue?	An attempt was made to restore the target data state on the parameter modification history screen.	To restore click [Yes], if not click [No].
Modification History	Parameter modification history list will be cleared because system/axis number changed.	Changed the value of #1001 and #1002.	Click [OK].
Modification History	The value of parameter #parameter number can not be resumed. The reason may be as follows: 1.The parameter does not exist. 2.The axis or system number of parameter which is resumed does not exist. 3.This parameter can not be edited. (Correlative parameter wasn't set or the password wasn't inputted.)	The value of parameter number in modification history can not be resumed.	Click [OK].

Appendix 4

Setting Firewall Exceptions

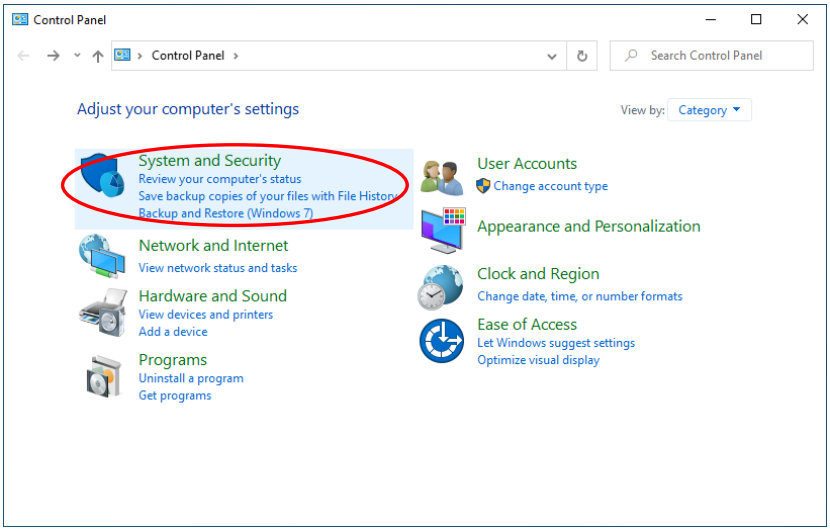
Appendix 4.1 Setting Firewall Exceptions

Follow the procedure below to register the exceptions for the Firewall function. (This setting can be performed by a user having the administrative right.)

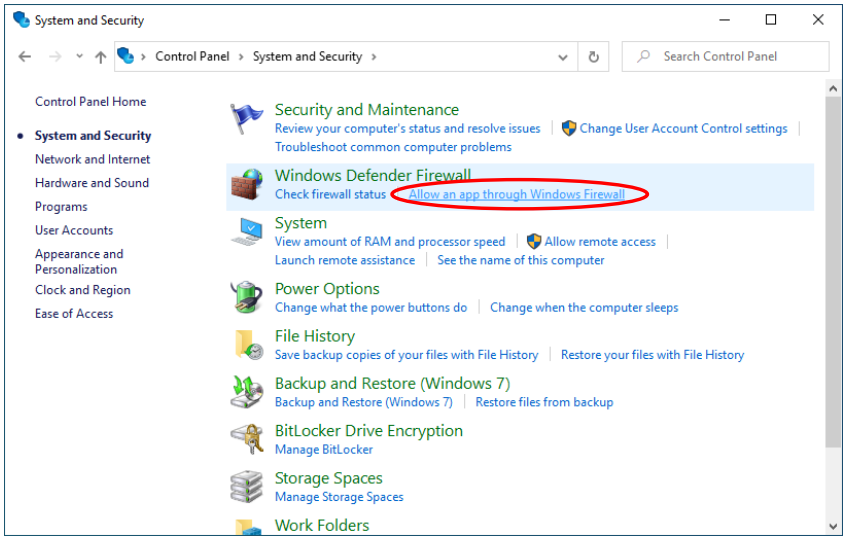
Operation method

(1) Open the [Control Panel].

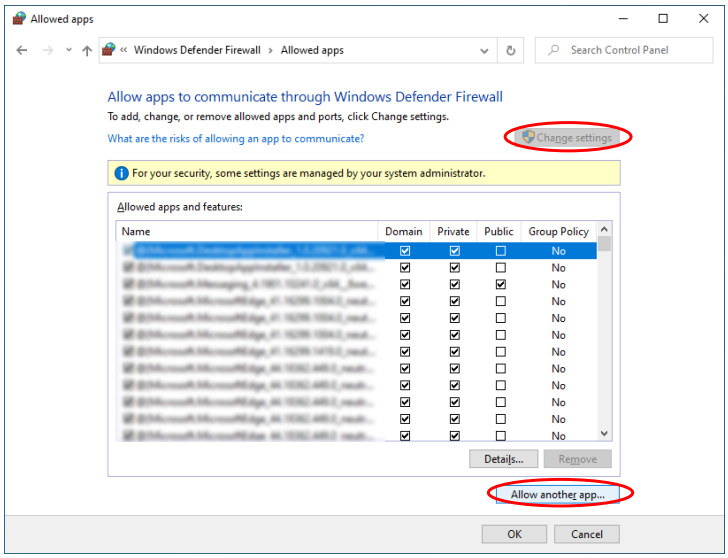
(2) Click [System and Security].



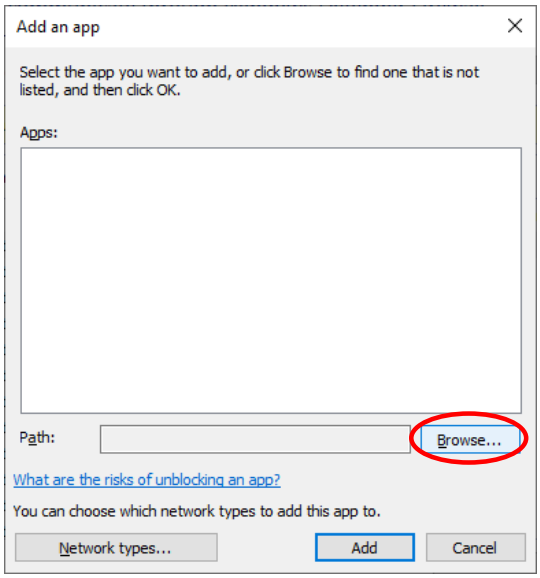
(3) Click [Allow an app through Windows Firewall].



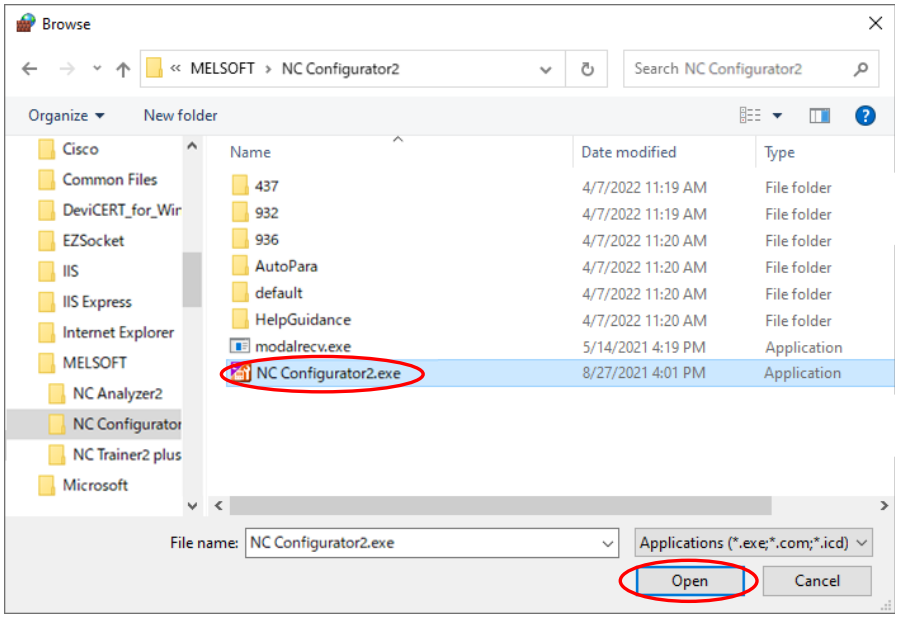
(4) Click the [Change settings] button to enable the [Allow another app] button.
Click the [Allow another app] button.



(5) Click the [Browse] button.

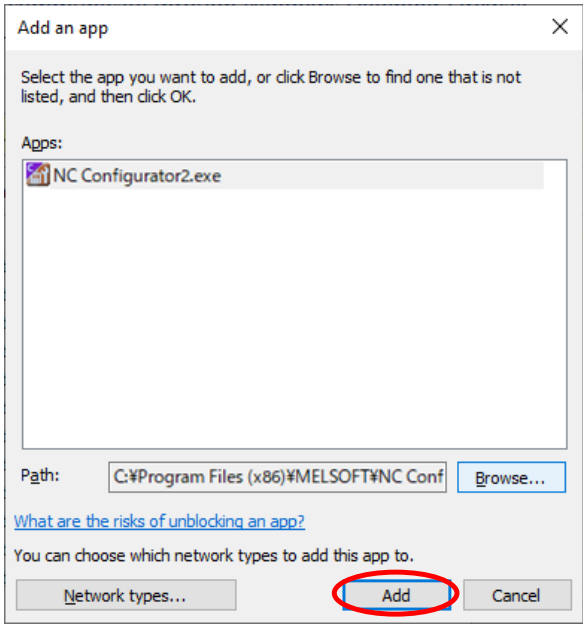


(6) Select the execution file to be registered as the exception for the Firewall function, and then click the [Open] button.

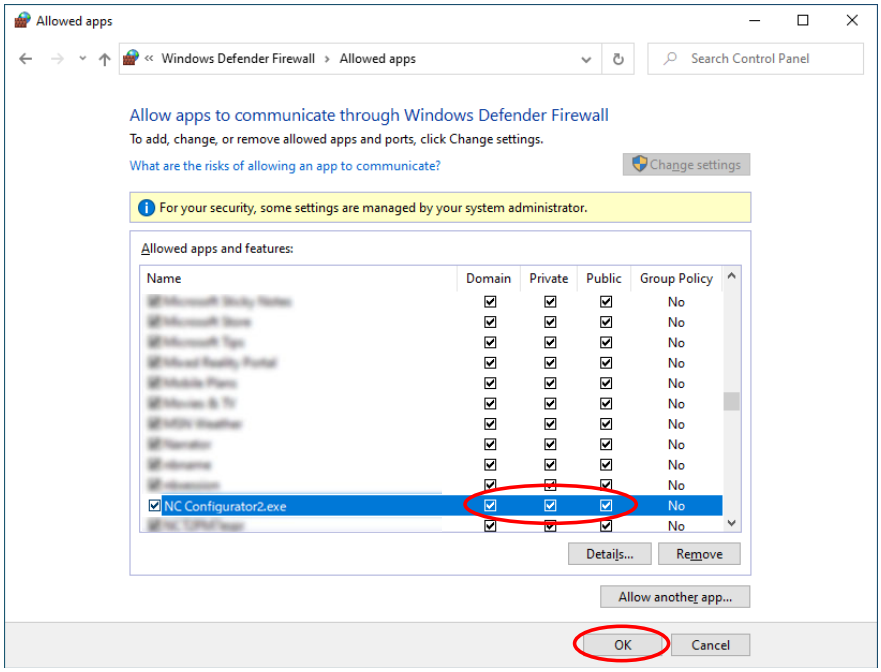


Select "C:\Program Files (x86)\MELSOFT\NC Configurator2 \NC Configurator2.exe".
(When the installation destination folder is the default setting)

(7) Click the [Add] button.



(8) Check [Private] and [Public], and then click the [OK] button.



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Revision History

Date of revision	Manual No.	Revision details
Jan. 2012	IB(NA)1501046-A	First edition created
May. 2013	IB(NA)1501046-B	Corresponded to S/W version A1. - Corresponded to E70 series - Separated "4.12 Adjustment Function" to "4.12 Function Parameter" and "4.13 Adjustment function" then configured as below: 4.12 Function parameter 4.12.1 High-speed high-accuracy (M7 series) 4.12.2 Machining condition selection I (M7 series) 4.12.3 Soft limit (M7/E70 series,C70) 4.12.4 Thread cutting (M7/E70 series) 4.13 Adjustment Function 4.13.1 Roundness (M60/M60S series) 4.13.2 High-speed high-accuracy (M60/M60S series) 4.13.3 Servo Adjustment (M60/M60S series) - Added "Appendix 3 List of Error Messages". - Mistakes were corrected.
Jan. 2015	IB(NA)1501046-C	Corresponded to S/W version B0. - Corresponded to M800 series. - Following sections were deleted. 1.4 Connection Configuration 3.1 Start NC Configurator2 3.2 Operation Flow 4.2 Machine Information Management 4.6 Common Variable Data Management 4.7 Workpiece Offset Data Management 4.8 Machining Program Management 4.9 System Configuration Management 4.10 Project Management Subsequent sections were re-numbered due to the deletion. - Added the description for the print of parameter modification history and the file output function to "4.2.5 Parameter Modification History". - Added "4.8.2 Parameter Initial Setting After Create Project". - Mistakes were corrected.
Jun. 2015	IB(NA)1501046-D	Corresponded to S/W version B1. - Corresponded to M80 series. - Added the NC data reading function of M8 series to "3.2.2 Menu Configuration" and "4.1.5 Importing NC Data". - Following sections were deleted. 4.3 Tool Life Data Management 4.4 Tool Compensation Data Management Subsequent sections were re-numbered due to the deletion. - Added the comparison function between part systems or axes in the same project, the print of comparison result, and the file output function to "4.2.7 Parameter Comparison". - Added M8 series to "4.6 Function Parameter". - Mistakes were corrected.
Sep. 2015	IB(NA)1501046-E	Corresponded to S/W version B2. - Corresponded to the import of tool life data for M80 series. Enabled the import of M8 tool life data in "1.2 Outline of Functions". Enabled the import of M8 tool life data and added all tool data in "4.1.5 Importing NC Data". Added the error messages related to the all tool data to "Appendix 3 List of Error Messages". - Enabled the selection of whether or not to create a shortcut on the desktop in "2.2.1 First Time Installation Procedure". - Enabled high-speed high-accuracy control and machining condition selection I for L system of M8 series. (Continue to the next page)

Date of revision	Manual No.	Revision details
		(Continued) Changed the descriptions of of "1.2 Outline of Functions" and "3.2.2 Menu Configuration". Deleted the restriction for L system of M8 series from "Appendix 2.1 Restrictions". - Added to "4.1.5 Importing NC Data" a condition that eliminates the need to set the NC series and system type through the screen when importing NC data. - Added the parameter related to display or hide to "4.2.1 M8 Series, M7/E70 Series Parameters". - Changed "4.2.7 Parameter Comparison" due to the improvement of the parameter comparison function. - Added to "Appendix 2.1 Restrictions" a restriction that "Data protection by user's level" of M8 series is not supported. - Mistakes were corrected.
Feb. 2016	IB(NA)1501046-F	Corresponded to S/W version B3. - Axis batch copy / paste functions were added. Operation method was added to "4.2.1 M8 Series, M7/E70 Series Parameters". Operation method and caution were added to "4.2.2 C70 Series Parameters". - Corresponded to M80 L system 4 part systems. Number of part systems was changed in "4.2.1 M8 Series, M7/E70 Series Parameters". - Corresponded to the switch of the parameter display on the machining condition selection I screen by enabling or disabling tolerance control. Description of the tolerance control parameter was added to "4.4.2 Machining Condition Selection I (M8/M7 series)". - Descriptions related to the correspondence to Windows10 were added. Windows10 was added to "1.3 System Requirements". Descriptions of Windows10 were added to "2.2.1 First Time Installation Procedure". Descriptions of Windows10 were added to "2.3 Uninstall Procedure". Windows10 was added to the OS which the message is displayed at the time of starting in "Appendix 2.1 Restrictions". - Restriction for not corresponding "Data protection by user's level" was deleted from "Appendix 2.1 Restrictions". - Restriction when changing the parameter "#1041 Initial inch" was added to "Appendix 2.1 Restrictions". - Description of parameter reset when NC Configurator2 of a version older than B3 was used was added to "Appendix 2.1 Restrictions". - Restriction when writing to M800W with USB memory set as storage was added to "Appendix 2.1 Restrictions". - "Appendix 3 List of Error Messages" Warning message related to the parameter #1603 was added in Initial Setup Wizard. Error message related to the data protection key was changed in Communication with NC. Error message related to the parameter lock was added in Communication with NC. Error message related to the user level-based data protection was added in Communication with NC. - Mistakes were corrected.
Aug. 2016	IB(NA)1501046-G	Corresponded to S/W version B4. - Corresponded to C80. - Windows 8 was replaced by Windows 8.1. - Added the safety parameter setting function. Added a menu item to "3.2.2 Menu Configuration". Added "Caution" to "4.1.3 Open an Online Project". Added safety parameter to the list of data that can be imported and added compliments in "4.1.5 Importing NC Data". Added "4.1.7 Exporting the Safety Parameters". Subsequent sections were re-numbered due to the addition. Added safety parameter to "4.1.9 Print". Added to "4.2.7 Parameter Comparison" the description that the function was not available for the safety parameter. - Deleted the restriction related to the parameter lock from "Appendix 2.1 Restrictions". (Continue to the next page)

Date of revision	Manual No.	Revision details
		(Continued) - Added to "Appendix 2.1 Restrictions" the restriction for unprotected parameters when some parameters are protected by user level-based data protection. - "Appendix 3 List of Error Messages" Error message related to parameter comparison was changed to correspond to C80. Error messages related to safety parameter were added and changed. Error messages related to the maximum number of control axes in the Initial Setup Wizard were added and changed. Error message related to modification history was added. - Mistakes were corrected.
Dec. 2016	IB(NA)1501046-H	Corresponded to S/W version B5. - Menu name "Initial Setup Wizard" was changed to "Initialization Wizard". Some screen pictures were changed in "4.1.1 Create a New Project" and "4.6 Wizard Function" in accordance with the menu name change. - Added to "Appendix 2.1 Restrictions" the models for which the program display at import is restricted. - A restriction related to the font size for system requirements was changed in "Appendix 2.1 Restrictions". - "Appendix 3 List of Error Messages" Operation messages related to Initialization Wizard were added and changed.
Sep. 2017	IB(NA)1501046-J	Corresponded to S/W version B6. - Revised the restricted model for #1218 bit3=1. Revised caution in "4.1.5 Importing NC Data". - Added caution for parameter import. Added caution (without an active project) in "4.1.5 Importing NC Data". - Added caution for parameter help display. Added caution in "4.2.4 Parameter Search".
Jun. 2019	IB(NA)1501046-K	Corresponded to S/W version B7. - Corresponded to E80. - Deleted the restrictions for "#1148 Initial high precision" from "Appendix 2.1 Restrictions". - "Appendix 3.1 "List of Error Messages" Error message related to Initialization Wizard was deleted. Error message related to Parameter Setting was added.
Jun. 2022	IB(NA)1501046-L	Corresponded to S/W version B8. - Corresponded to M8V series. Changed the New wizard to the screen that M8V is selected in "4.6.1 Parameter Initialization". - Deleted the description on Windows7 as the support ended. - Added the PROFIBUS screen. - Added "1.3 Applicable Models and Versions". - Added "Appendix 4 Setting Firewall Exceptions". - Added conditions to display blank for parameter values, and the operation and caution under the conditions. Added conditions to display blank for parameter values in "4.1.2 Open an Existing File", "4.1.5 Importing NC Data", and "4.3.1 Read From NC". Added the operation when writing data to an NC while blank is displayed in "4.3.2 Write To NC". Added caution for setting parameter data of NC connected online in "4.1.3 Open an Online Project". Added the description that the history of modified value is displayed in "4.2.5 Parameter Modification History". - "4.2.1 M8V Series, M8 Series, E80, C80, M7/E70 Series Parameters" Added related parameters that display/hide parameters. Added restriction of the number of input characters depending on the setting range. - "2.2.1 First Time Installation Procedure" Added the description on the text file displayed during installing EZSocket to a PC. (Continue to the next page)

Date of revision	Manual No.	Revision details
		(Continued) - Added the WLAN parameter screen. Changed the screen in "3.2.1 Screen Configuration". Added caution in "4.2.1 M8V Series, M8 Series, E80, C80, M7/E70 Series Parameters". - Revised parameter file format. Added caution in "4.1.5 Importing NC Data" and "4.1.6 Exporting the NC Parameters". Revised error messages in "Appendix 3.1 List of Error Messages". - Mistakes were corrected.
Oct. 2024	IB(NA)1501046-M	Corresponded to S/W version B9. - Changed the descriptions in "Precautions for Safety". - Corresponded to Windows 11. Added the descriptions on Windows 11 to "1.4 System Requirements". Changed the descriptions in "2.2.1 First Time Installation Procedure". Changed the descriptions in "2.3 Uninstall Procedure". Changed the title of "2.3.1 Uninstall from [Settings]" and the descriptions. - Corresponded to M8 series version FA and M8V series version A6. Added the applicable versions of the system software version B9 to "1.3 Applicable Models and Versions". - Corresponded to HK motors. Changed the screen in "4.6.2 Initial Setting After Creating the Project". - Deleted the descriptions on Windows 8.1 as the support ended. Deleted the descriptions on Windows 8.1 from "1.4 System Requirements". Deleted the descriptions on Windows 8.1 from "2.2.1 First Time Installation Procedure". Changed the title of "2.3.1 Uninstall from [Settings]" and deleted the descriptions on Windows 8.1. - Added supported drive units/motor types. Added "1.3.3 Supported Drive Units/Motor Types". - Deleted Chinese (simplified) from the supported languages of the installer. Changed the screen in "2.2.1 First Time Installation Procedure". - Revised the contents of END-USER SOFTWARE LICENSE AGREEMENT. Changed the screen in "2.2.1 First Time Installation Procedure". - Changed the motor type (default settings) for new project initialization wizard. Changed the screen in "4.1.1.1 Create a New Project (with Initial Setting)" and "4.6 Wizard Function". - Added error messages for when ":" is not included in a gear ratio in the Initialization Wizard. Added messages to "Appendix 3.1 List of Error Messages". - Changed the descriptions on when failed to initialize a project. Changed the restriction in "Appendix 2.1 Restrictions". - Mistakes were corrected.

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Notice

Every effort has been made to keep up with software and hardware revisions in the contents described in this manual. However, please understand that in some unavoidable cases simultaneous revision is not possible. Please contact your Mitsubishi Electric dealer with any questions or comments regarding the use of this product.

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MODEL	NC Configurator2
MODEL CODE	100-300
Manual No.	IB-1501046

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