

# Numerical Control (CNC)

# Instruction Manual NC Configurator2



## 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".

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

Note that even items ranked as " A 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.



The meaning of each pictorial sign is as follows.

	CAUTION	CAUTION	Danger	Danger
	rotated object	HOT	Electric shock risk	explosive
Prohibited	Disassembly is prohibited	KEEP FIRE AWAY	<b>Q</b> General instruction	<b>e</b> Earth ground

## 

Not applicable in this manual.

## 

Not applicable in this manual.

## 

1. Items related to operation

- $\triangle$  Items not described in this manual must be interpreted as "not possible".
- $\triangle$  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.
- Support Parameter settings for individual NC function for the users. (2) Function parameter :
- (3) RS232C communication : function
- Offer various functions using the tape mode and serial communication.

## **1.2 Outline of Functions**

			L	imited f	functior	n versio	n	Full function version				
No.	Fu	Function		C80	M7/ E70	C70	M60/ M60S	M8V/ M8/ E80	C80	M7/ E70	C70	M60/ M60S
1	Parameter setting/Operati	on screen	0	0	0	0	0	0	0	0	0	0
2	Parameter search (Param	eter No./Keyword search)	0	0	0	0	0	0	0	0	0	0
3	Help		0	0	0	0	0	0	0	0	0	0
4	Parameter modification his	story	0	0	0	0	0	0	0	0	0	0
		Input/output	0	0	0	0	0	0	0	0	0	0
5	Parameter	Comparison (online)	-	-	-	-	-	0	0	0	-	-
5	i alameter	Comparison (offline)	0	0	0	0	0	0	0	0	0	0
		Synchronization (online)	-	-	-	-	-	0	0	0	-	-
		Input	0	0	0	0	0	0	0	0	0	0
6	NC data	Output	-	-	-	-	-	-	-	-	-	-
0	common variables, etc.)	Edit (Machining program)	-	-	-	-	-	-	-	-	-	-
	,	Edit (Common variables, etc.)	-	-	-	-	-	-	-	-	-	-
7	Tape mode/Computer link	В	-	-	0	-	0	-	-	0	-	0
8	Print		0	0	0	0	-	0	0	0	0	-
9	Display language (English/Chinese (Simplif	ied Chinese)/Japanese)	0	0	0	0	0	0	0	0	0	0
10	Setup wizard (initial param	neter setting)	-	-	-	-	-	0	0	0	0	-
11	Parameter conversion (M6	60/M60S -> M7/E70)	-	-	-	-	-	-	-	0	-	-
12	Parameter import (M7/E70	) -> M8V/M8/E80)	0	-	-	-	-	0	-	-	-	-
13	Parameter import (C70 ->	C80)	-	0	-	-	-	-	0	-	-	-
		High-speed high-accuracy adjustment	-	-	-	-	-	0	0	O (*1)	-	-
14	Function parameter	Machining condition selection I	-	-	-	-	-	0	0	O (*1)	-	-
		Soft limit	-	-	-	-	-	0	0	0	0	-
	Thread cutting		-	-	-	-	-	0	0	0	-	-
		Roundness adjustment	-	-	-	-	-	-	-	-	-	0
15	Adjustment function	High-speed high-accuracy adjustment	-	-	-	-	-	-	-	-	-	0
		Servo Adjustment	-	-	-	-	-	-	-	-	-	0

(\*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.

		CNC									
NC Configurator2	M800V/ M80V	M80/E80	M800	M70V/E70	M70	M700V	M700	C80	C70	M60	
BND-1221W000-B0		-	A0	K2	FF	K2	FF		٥٩		
BND-1221W000-B1		A1	A1	1\2	ГГ	1\2	ГГ	_	09		
BND-1221W000-B2		A2	A2	K7	FG	K7	FG	_	DE		
BND-1221W000-B3		B1	B1	L0	FH	L0	FH		DC		
BND-1221W000-B4		C1	C1	L2		L2		A0	DG	CE	
BND-1221W000-B5		C3	63					۸1			
BND-1221W000-B6		03	03		EI		EI	AI			
BND-1221W000-B7		E0	E0	L4	ГJ	L4	гJ	B2	DH		
BND-1221W000-B8	A1	F1	F1	1				B7			
BND-1221W000-B9	A6	FA	FA	1				107			

#### 1.3.2 Help Guidance

(1) Japanese

	CNC									
NC Configurator2	M800V/ M80V	M80/E80	M800	M70V/E70	M70	M700V	M700	C80	C70	M60
BND-1221W000-B0		-								
BND-1221W000-B1		۸0	A0	J1	FC	J1	FC		D4	
BND-1221W000-B2		AU						-		
BND-1221W000-B3		A4	A4							
BND-1221W000-B4	-	D0	D0					A 4 (NAQ)		СГ
BND-1221W000-B5		D2	DZ					A4(IVIO)		CF
BND-1221W000-B6		C1	C1	K1	K1	K1	K1	A1	DD	
BND-1221W000-B7		D1	D1	1				B0		
BND-1221W000-B8	A1	F1	F1	1				B7		
BND-1221W000-B9	A3	F8	F8					10		

(2) English

					CI	NC				
NC Configurator2	M800V/ M80V	M80/E80	M800	M70V/E70	M70	M700V	M700	C80	C70	M60
BND-1221W000-B0		-								
BND-1221W000-B1		۸0	A0	J1	FC	J1	FC		D4	
BND-1221W000-B2		AU						-		
BND-1221W000-B3		A4	A4							
BND-1221W000-B4	-	<b>P</b> 2	B2					A //MQ)		
BND-1221W000-B5		DZ						A4(IVIO)		-
BND-1221W000-B6		C1	C1	K1	K1	K1	K1	A1	DD	
BND-1221W000-B7		D1	D1	1				B0		
BND-1221W000-B8	A1	F1	F1	1				B7		
BND-1221W000-B9	A3	F8	F8					ы		

#### 1 Outline

#### (3) Chinese (Simplified Chinese)

					CI	NC				
NC Configurator2	M800V/ M80V	M80/E80	M800	M70V/E70	M70	M700V	M700	C80	C70	M60
BND-1221W000-B0		-								
BND-1221W000-B1		K1(M7)	K1(M7)	J1	FC	J1	FC	_		
BND-1221W000-B2		$\mathbf{K}$ $\mathbf{I}$ $(\mathbf{W} \mathbf{I} \mathbf{I} \mathbf{I})$						-		
BND-1221W000-B3		A1	A1			К1 К1				
BND-1221W000-B4	-	A4	A4					A4(M8)	D4	CE
BND-1221W000-B5		D0	БJ		K1		K1		D4	Сг
BND-1221W000-B6		DZ	DZ	K1						
BND-1221W000-B7		D1	01 D1							
BND-1221W000-B8		<b>E</b> 1	<b>E1</b>					B0		
BND-1221W000-B9		ГІ	F I							

#### 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 recommer	nded							
Screen	Resolution: XGA (1024x768) or better								
Interface	RS232C, RJ45 (Etherne	et), 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

ltem	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].

NC Configurator2 - InstallShield Wiz	ard			_		X
Choose Setup Language Select the language for the installat	tion from the ch	ioices below	ı.			1
English (United States) Japanese						
L		< Back	Next >		Cance	el

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

NC Configurator2 - InstallShield	Wizard	×
	Welcome to the Install Wizard for NC Configurator2	
	The Install Wizard will install NC Configurator2 on your computer. To continue, click Next.	
	< Back Next > Cancel	

(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.

NC Configurator2 - InstallShield Wizard	×
License Agreement Please read the following license agreement carefully.	
Press the PAGE DOWN key to see the rest of the agreement.	
END-USER SOFTWARE LICENSE AGREEMENT This AGREEMENT is entered into between MITSUBISHI ELECTRIC and you ("CUSTOMER"). The term "SOFTWARE" shall include (1) any software program on any media, (2) its copies, and (3) any and all documents in connection with the SOFTWARE. Article 1 - GRANT OF LICENSE MITSUBISHI ELECTRIC hereby grants to CUSTOMER a non-	Ι
Do you accept all the terms of the preceding License Agreement? If you select No, the setup will close. To install NC Configurator2, you must accept this agreement. InstallShield <a href="https://www.agreement.com">Recent Configurator2</a> , you must accept the setup will close. To install NC Configurator2, you must accept this agreement. InstallShield	

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

NC Configurator2 - InstallShield Wizard	×
Customer Information Please enter your information.	No.
Please enter your name and the name of the company for which you work.	
User Name:	
Company Name:	
InstallShield	
< Back Next >	Cancel

(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].

Input ProductID		×
	Please enter the product ID of the product. Please input in single byte English characters.	
	NL Configurator2	
	·	
	NC Configurator2 Limited-function version	
	< Back Next >	Cancel

(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.

NC Configurator2 - InstallShield	d Wizard
	Install Wizard Complete The Install Wizard has successfully installed NC Configurator2. Click Finish to exit the wizard.
	< Back Finish Cancel

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:".

#### 2 Installation and Setup

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

🧧 Information-j - Xモ帳 —		×	■ Information-e - Xモ帳		-		×
ファイル 縄集 表示		$\odot$	ファイル 編集 表示				۲
まなくションに以下のソフトウェアがよンストールされている場合。 それらにコンに支持がハンラッシアートしたくだってい アップアートしてはと正しし動作とならない可能性があります。 動物シフトションでは、「三菱電振なサイト」から人手可能です。 で、Monical Free Control (And			If software show below have been installed, plaase usda They might not correctly werk in or udstated. Users are able to set the latest version of the software of Kinoka Metion Control Setting Of Montal Of Montal Of Montal Metion Control Setting Of Montal Metion Control Setting Of Montal Metion Control Setting Of Montal Metion Control Setting Of Montal Metion Control Setting Metion Contro	te them to the latest versions. from "MITSUBISHI ELECTRIC FA Gio	bal We	ebsite'	
行 1、列 1 100% Windows (CRLF) AP	151		行1,列1	100% Windows (CRLF)	UTF-8		

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].

$\leftarrow$	Settings			_	×
6	Local Account	App n	s > Installed apps		
Find	a setting Q				
	System	2	NC Configurator2 2.2.8.4   MITSUBISHI ELECTRIC CORPORATION   2/25/2024		
8	Bluetooth & devices	G	oreal I manufacture resources I contrast ME relation		
-	Network & internet				
/	Personalization	0	para I caratte recar concrupt I datter		
	Apps				
:	Accounts	12	MENT Could Tem distant Trace a series and series scheme come a strategistic		
0	Time & language	-	-		
•	Gaming	-	Movef.Grantler 1 (1006)	10.010	
×	Accessibility		Newse		
	Privacy & security	-	HE wolf downsides   197,00%	2114	
3	Windows Update			25,000	

(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 Installation and Setup

#### 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.

User Account Control	×
Do you want to allow this app from an unknown publisher to make changes to your device?	
NCC2.exe	
Publisher: Unknown File origin: Hard drive on this computer	
Show more details	
	n
Yes No	J

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

NC Configurato	r2 - InstallShield Wizard			×
Welcome Modify, repai	r, or remove the program.			
Welcome to the current in	the NC Configurator2 Setup Maintena stallation. Click one of the options bel	nce program. This ow.	program lets you modi	fy
Modify				
	Select new program features to add remove.	or select currently	installed features to	
⊖ Repair	Reinstall all program features installe	d by the previous :	setup.	
Remove     Remove     InstallShield	Remove all installed features.			
n rotano nola		< Back	Next > Canc	el

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

		•				
NC Configu	rator2 - In	stallShield Wizar	d			$\times$
Do you wa its feature	int to comp s?	pletely remove th	e selecte	d applicatio	n and all of	
				Yes	No	
						-

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

NC Configurator2 - InstallShield	d Wizard
	Uninstall Complete Setup has finished uninstalling NC Configurator2. To reinstall NC Configurator2, start the installer again.
	< Back Finish Cancel

#### NC Configurator2 Instruction Manual

2 Installation and Setup

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





	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		
	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.		
Project	Import		Import data from external file to the project.		
	Export parame	eter	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 pa	ram as csv file	Output NC parameters from the project as csv format.		
	Print		Print the project data.		
	Exit		Exit NC Configurator2.		
	Machine inform	nation	Display and set the machine information.		
		Display_Setting	Display and set the parameters.		
NC Data	Parameter	Convert	Convert M60/M60S series parameters into M7/E70 series parameters. (Enabled for model M7/E70 and full function version)		
M8V : Variable M8 : Variable E80 : Variable C80 : Variable M7 : Variable E70 : Variable C70 : Variable		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	Tape mode		Operate the tape mode by transferring the machining program stored the local disk with RS232C.		
M8 : Hide E80 : Hide C80 : Hide M7 : Variable E70 : Variable C70 : Hide	Standard RS232C communication		Input and Output the text data with RS232C.		
Function parameter	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)		
parameter M8V : Variable M8 : Variable E80 : Variable C80 : Variable	Machining cor	ndition 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)		
M7 : Variable E70 : Variable	Soft limit		Sets the soft limit related parameter. (Gray out for limited function version)		
variable	Thread cutting	1	Sets the Thread cutting related parameter. (M8V/M8/E80/C80/M7/E70 series only) (Gray out for limited function version)		
	Read NC Data	a From NC	Read the NC data to the project.		
Communication	Write to NC(P	arameter)	Write parameters of the project to NC.		
	Communicatio	on settings	Set the communication connection setting.		

	Menu	Description			
	Options	Set the operation option to conveniently utilize NC Configurator2 as desired.			
Fool	Project Management	Display the project data state such as corrections, saved state, and o 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.			
	Tool bar	Select to display or hide the tool bar.			
View	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.			
	Japanese	Change display language to Japanese.			
View Language	English	Change display language to English.			
	Chinese	Change display language to Chinese (Simplified Chinese).			
	Close	Close the most front window.			
View View Language Window View Ti View N N N N N N N N N N N N N	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				
	New	Create a new project.				
	Open	Open an existing project.				
Parameter settings	Online	Create a new project, and set the NC parameters directly. (Gray out for limited function version)				
	Close	Close the project.				
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.				
	Base spec param					
Parameter settings F N F F F	NC axis param					
	NC servo params					
	Spindle param					
	Er comp param					
	PLC param	Display and set the parameters.				
	Macro list	7				
	Posn switch param	7				
	Process param	7				
	I/O param	-				
	Anshin-net param	7				
	Base system	Perform the initial setup for base system.				
Project Parameter settings Initial settings Adjustment	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.				
	Roundness	Perform the adjustment of roundness by setting the related parameter. (Gray out for limited function version)				
Parameter settings Initial settings Adjustment	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		nu	Description		
	Comn	nunication settings	Perform the communication connection setting between PC and NC.		
		Read parameter from NC	Read the parameters from NC.		
	_	Write parameter to NC	Write the parameter from the project to NC.		
	atior	Parameter comparison	Compare the parameters between the project and NC.		
Communicate	munica	Reading NC Data from NC	Read the NC data from NC.		
	mo	Write NC Data to NC	Write the NC data from the project to NC.		
	0	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.		
1001	Project Management		Display the project data state such as corrections, saved state, and dat source, etc. Import the data or delete the data.		
	Project Management Tool bar w Status bar		Select to display or hide the tool bar.		
View	Status bar		Select to display or hide the status bar.		
Communicate Tool View Language Window Help	Help \	window	Select to display or hide the help window.		
	Communication settings Communication settings Read parameter fro Write parameter to Parameter comparing Reading NC Data fro NC Write NC Data to N Read data from IC of Write data to IC car Options Project Management Tool bar Status bar Help window Japanese English Chinese Close Close all Tile horizontally Tile vertically Version Information Register	iese	Change display language to Japanese.		
Language	Englis	sh	Change display language to English.		
Tool View Language	Chine	se	Change display language to Chinese (Simplified Chinese).		
	ool Proje Tool I iew Statu Help Japar anguage Englis Chine Close		Close the most front window.		
Language Window	Close	all	Close all windows.		
WINCOW	Tile h	orizontally	Display all open windows horizontally.		
	Tile v	ertically	Display all open windows vertically.		
Help	Versio	on Information	Display the version information and user information.		
lelp	Register		Change limited function version to full function version.		

#### 3.2.3 Tab

Change the display of main screen with tab.

Display/Setting Convert Print

Example of M7 series

Navigation window	Function	Tab	Operation description
	Machine information	Display/Setting	Display the display/setting screen of the machine data.
		Display/Setting	Display the display/setting screen of the parameters.
	Parameter	Convert	Display the parameter conversion screen.
NC Data Standard RS232C communication_ Tape mode		Print	Display the print screen.
	Tool life Tool compensation Common variable	Display	Display the display screen of each function.
	Work offset Program System configuration	Print	Display the print screen.
Standard RS232C	Tape mode Tape mode		Display the tape mode screen.
communication_	Standard RS232C	Send text	Display the send text screen.
Tape mode	communication	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.



#### **4.1 File Function**

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

#### 4.1.1 Create a New Project

1		M8V/M8/E80	C80	M7/E70	C70	M60/M60S
	With initial setting	0	0	0	0	-
	Without initial setting	0	0	0	0	0

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.

settings						
	Setti	ng ten		Setting conter	t .	
	NCtype		M80/E80			
	System type		MI			
	Language		English			
etings						
	Setting tem	Ads number	Command unit	Control unit	Command type	
	No.1 System	3	1µm	0.001µm(1nm)	Sedes1(M)-I	
	No.2 System	0	tum	0.001µm(1nm)	Series1(M)-I	
	PLC axis	0	lun	0.001µm(1nm)		
	opinole			ium.		
nformation						

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

After entering various data, press [Finish].

Moves to "Basic information" window.



Refer to "4.6 Wizard Function" for details.



A project file which includes the initial parameters is created.

KC Configurator2 - (Project1)			2		-		>
Project(P) NC deta(D) Communici	ste(C) Tool(T) View(V) Language(L) Wind	ow(W) Help(E)				-	. 6
	10						
C Deta	Display/Setting			<ul> <li>Help</li> </ul>		_	
Machine information	Basic Information						9
R Parameter	Customer						
8 User param					MITSUBI	ISHI CM	VC
¥ Base spec param	Machine maker				•		
8 Axis spec param							
Servo peram	Meshine name:						
o opinale persiti Rateo avia conferentes pers							
<ul> <li>Machine and compared for</li> </ul>	Machine No.:						
× PLC gazes							
Macro list	Renarka:						
Position switch peram							
VO assign param							
8 Open param				Pa	ramete	er 👘	
8 CO-Link peram	Creator information			inc	truction		
PLC Index param				ins	uucuoi	15	
Machine Model param	Created by:						
M. time param							
COLEF BASIC	NO Information						
PROFIBUS-DP parent	No Homaton						
sarety parameter	NC type:			Res	t: 0		
Test services	Projet No.			No.	Name	0	¢e.
Common variable	Serie no.						
West allocat	NC Ver:						
)							
NC Date							
Function parameter				~			
				> (			

(3)

#### 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.

MC Configurator2 - (Project1	1				-	0	×
Project(P) NC data(D) Commun	icate(C) Tool(T) View(V) Language(L) Window(	W) Help(R)				-	ð
	<u>n e</u>						
IC Dete	Display/Sating			нер			
Moonine morriation	Basic Information			Ney wordt	(space) (i v		Q.
x Parameter	Oustomer:			A .			
6 Ober parans				<b>1 *</b> * *	NILSORE	SHIGN	C
o Dase spec parent	Machine maker:						
<ul> <li>Ans spec param</li> </ul>							
Servo param	Machine name:						
s opnde paran							
Hotery also computation para	Marchine Dis.						
8 Mechine error compensation	Pacific Inc.						
8 PLC param	Service .						
Mecro Ist	Constants.						
Postion switch param							
10 assign param							
8 Open param				Para	meter		
8 CC-Link param	Creator information			instr	uction	s	
PLC Index param	Ownership			mou	ucuon		
Machine Model param	Cleanes by						
M. time param							
CCIEP BASIC	M <sup>A</sup> Information						
Folder some of the parameter				_			-
Table	NC type:			Result	0		
Testamonia	Paral No.			No.	Name	Co	(00
Compensation	Jana no.						
Wash allered	NC Ver:						
NC Data							
Function perameter							
	4		>	۰.			
warks	20	tern type: M System NC series: M80/580				CAP N	UM

#### 4.1.2 Open an Existing File

M8V/M8/E80	C80	M7/E70	C70	M60/M60S
0	0	0	0	0

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.

Open						×
🕖 🖉 🕷 Local	Disk (C	:) • MELCNC •	NCC2	• 49 Search NCC	2	٩
Organize 👻 New f	older				H • 🔟	0
🚖 Favorites	<u>^</u>	Name	Date modified	Туре	Size	
Desktop		Project1.nc2	6/20/2016 8:12 PM	NC2 File	176 KB	
Downloads Becent Places						
Calibraries						
Documents						
Pictures						
🚼 Videos						
-						
Computer						
🙀 Network	-					
Fi	le <u>n</u> ame	Project1.nc2		<ul> <li>All files(*.nc2,</li> </ul>	".cpg:".ncp;".PRM	-
				Open	Cancel	

(2) Select an existing file or parameter file and press [Open].

## The project data will be read.

Project(P) NC dete(D) Communi	cate(C) Tool(T) View(V) Language(L) Window(W) Help(R)			- 8	×
188 <b>1</b> 11 1 6 9 1	<u>n 0</u>				
) Data	Display/Setting	^	Help		×
Machine Information	Datic Information			Kr 🗸 🔎 🏠	
Parameter	Contract				~
¥ User param	Cultower		AITS	UBISHI CNC	
Base spec param			-		
Axis spec param	Mochine maker:				
Servo param					
8 Spindle param	Machine rame:				
Rotary axis configuration pana					
# Machine error compensation	Machine No.:				
8 PLC param					
Macro Ist	Remarks:				
Position switch param					
I/O assign param					
<ul> <li>Open param</li> </ul>			Parame	eter	
8 CC-Link param	Creater information		instructi	ione	
PLC Index paren			insuucu	0115	
Machine Model param	Created by:				
M. time param					
COLF BASIC					~
PRORECT DR parses	NC information				*
Safety parameter	NC type:		Reput: 0		
Tool life			No. Non	e Content	٦
Tool compensation	Setal No.:				
Common variable	Nº Ver				
3					-
NC Data					1
Function parameter	1	~			
	6	>			1
edv	System type: M System NC secies: M80/E80			CAP NUM	-

#### 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
0	0	0	-	-

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 gu Mare publice @ demonstration ○00	idance starts.	Ange games     Constrained and Coll Relevant Staff on Read Staff     Constrained and Coll Relevant Staff on Read Staff     Constrained and Coll Relevant Staff on Read Staff     Constrained and Staff on Read Staff on Read Staff     Constrained and Staff on Read Staff on Read Staff     Constrained and Staff on Read Staf
(2)	Select NC from the list and press [Finish].	•	A project	file that read the	e online data is crea
			Control of the second sec	Control and a co	Processor for 123 Inc. Inc. Inc. Inc. Inc. Inc. Inc. Inc.

#### **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
0	0	0	0	0

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
0	0	0	O *	0 *

\* 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

Туре	Format	M8V/M8/ E80	C80	M7/E70	C70	M60/M60S
Parameter	*.PRM	O (Note 1)	O (Note 1)	O (Note 1)	O (Note 1)	O (Note 1)
Safety parameter	*.BIN	O (Note 2)	O (Note 2)	-	-	-
Tool life	*.TLF	0	0	0	-	-
Tool compensation	*.OFS	0	0	0	0	-
All tool data	*.DAT	O (Note 3)	O (Note 3)	-	-	-
Common variable	*.VAR	0	0	0	0	-
Work offset	*.OFS	0	0	0	0	-
Program	*.PRG, *.TXT	0	0	0	0	-
System configuration	*.INF	0	0	0	-	-

(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.

			Paran	neter file (m	iodel)		
Project	M80V/M80/ E80	M800V/ M800	M70/M70V/ E70	M700/ M700V	C80	C70	M60
M80V	0	×	0	×	×	×	×
M80/E80	0	×	0	×	×	×	×
M800V	0	0	×	0	×	×	×
M800	0	0	×	0	×	×	×
M70/E70	×	×	0	×	×	×	×
M70	×	×	0	×	×	×	×
M700V	×	×	×	0	×	×	×
M700	×	×	×	0	×	×	×
C80	×	×	×	×	0	0	×
C70	×	×	×	×	×	0	×
M60	×	×	×	×	×	×	0

o: 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.

	Safety parameter file (model)					
Project	M80V/M80/ M800V E80 M800		C80			
M80V	0	×	×			
M80/E80	0	×	×			
M800V	×	0	×			
M800	×	0	×			
C80	×	×	0			

 $\circ$ : Can be imported  $\times$ : Cannot be imported

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

#### NC Configurator2 Instruction Manual

#### **4 Basic Operation**

#### **Operation Method** "Open" window appears. (1) Select [Project]-[Import] from the menu. 🕖 🖉 🕊 Local Disk (C:) 🕨 MEL . 0 Pavontes E Desktop Downloa E Recent P ALL:PRM 6/20/2016 8:21 PM PRM 8 133 KB 1 All files(\*.\*) Open 😽 Cancel "New" window appears. Select a file and press [Open]. (2) 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) $\times$ New M80V NC series : $\sim$ M system C L system OK Cancel

(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.)

NC Configurator2 - (Project1)		N	- 0 ×
Project(P) NC date(D) Communi	cate(C) Too(T) View(V) Language(L)	Window(W) Help(K)	- 8
	Dista Sette		A Help
Machine information	Basis internation		Key word1(space)Ke 👻 🔎 🙀
Perameter			
User param	Customer.		MITSUBISHI CNC
8 Base spec param			~
¥ Axis spec param	Machine maker:		
Servo param			
8 Spindle param	Machine name:		
Rotery axis configuration para			
X Machine error compensation	Machine No.:		
# PLC param			
Macro list	Remarks:		
Position switch param			
1/O assign param			
8 Open perem			Parameter
8 CC-Link paran	Creator Information		instructions
PLC Index param			insuucuons
Machine Model param	Created by:		
M. time param			
CCIEF BASIC			
PROFIBUS-OP param	NC information		
Safety parameter	NC type:		Read: 0
Tool ife			No Name Conte
Tool compensation	Seriel No.:		
Common variable	MC Var		
Web allost			
AND Date			
Eventing constructor			
a second parameters!			
#### 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 can be 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
0	0	0	0	0

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	0	0	0	0	0

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
0	0	-	-	-

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	0	0	-	-	-

## 4.1.8 Output NC Parameter (CSV File Format)

M8V/M8/E80	C80	M7/E70	C70	M60/M60S
0	0	0	0	-

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.

👹 Save as						
🕗 🖓 🖉 🕹 🖉 Lo	cal Disk (C:) 🔸	MELCINC	NCC2	+ + Search	NCC2	٩
Organize - Ne	w folder				)= •	0
E Desktop bownloads	* Nam	e ^	Date modified No items	Type match your search.	Size	
⇒ Libraries Documents Music Pictures Videos	TI.					
( Computer	-					
File game:	1					-
Save as type:	csv Files (*.csv)	)				-
<ul> <li>Hide Folders</li> </ul>				Sa	ve Canc	8

(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.

para\_ax.csv
para\_cmn.csv
para\_ip.csv
para\_ip.csv
para\_sp.csv
para\_sys.csv
para\_sys.csv

### 4.1.9 Print

M8V/M8/E80	C80	M7/E70	C70	M60/M60S
0	0	0	0	-

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**



#### 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
0	0	0	0	0

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	0	0	0	0	0
Convert	-	-	0	-	-
Print	0	0	0	0	-

Example of M7 series

## Display by classification

Select the parameter from [Classification] in the navigation tree.

MC Configurator2 - [Project1	1				– 🗆 X
🚰 Project(P) NC data(D) Communicate(C) Tool(T) View(V) Language(L) Window(W) Help(H) - & ×					
E 🖻 🖥 👘 🗎 🔒 🧇	ñ ()				
NC Data	Display/Setting Convert Print				K Help
Machine information					Key word1(space)Ke 🗸 🔎 🙀
Parameter					D 1 N 4000
User param	No. Name	Data	No. Name	Data	Parameter No.:1026
Process param	1020 Base axis I	×	9001 WRK COUNT M	0	
Control param1	1027 Base axis 5	7	8002 WRK COUNT	0	Itoms
Control param2	1020 Elat avia I	Y	8002 WRK COUNT LIMIT	0	items.
Axis param	1030 Flat axis J	Y	<auto tlm=""></auto>		
Barrier data	1031 Flat axis K	Z	8004 SPEED	0	base IBase axis I
I/O param	1084 Arc error	0.100	8005 ZONE r	0.000	
Ethernet param	1171 Tap return ovr	0	8006 ZONE d	0.000	
Link param	1185 Feedrate F1	500	<auto corner="" ovr.=""></auto>		Content:
Subpro stor	1186 Feedrate F2	500	8007 OVERRIDE	50	
Operate param	1187 Feedrate F3	500	8008 MAX ANGLE	120	
Menu select	1188 Feedrate F4	500	8009 DSC. ZONE	20.000	Set the names of the basic
X Base spec param	1189 Feedrate F5	500	<t-tip offset=""></t-tip>		axes that compose the plane.
X Avis spec param	1506 F1 upper limit	10000	8010 ABS. MAX.	0.000	Set the axis name set in
Serve param	1507 F1 change constant	10	8011 INC. MAX.	0.000	"#1013 axname".
X Spindle param	Cursor can be moved by				"base I and "base K" do not
Botany axis configuration para	Ctrl + Left/Right in the input area.				need to be set, such as for 2-
X Machine error compensation				PAGE 14:41	axis specifications, input "0",
× PI C param			TAGE		and the parameter will be
Macro list	Process Ctrl Ctrl	Axis	Param Area Area		blank.
Position switch param	param param1 param2	param	number copy paste		Normally, when X, Y and Z are
< Onen norem >	Param type Param No. Sy	s/Ax Before	After Time	Modifier	Result: 0
NC Data					No. Name Content
Standard RS232C communication .T.					
Runction parameter					
	¢			>	< >
Ready		System fvr	e: M.System NC series: M700V		CAP NUM

# 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
	1, 0, 0, 0, 0, 0, 0, 0, 0	1 part system
	1, 0, 0, 0, 0, 0, 0, 0, 1	1 part system + PLC system
1001	1, 1, 0, 0, 0, 0, 0, 0, 0	2 part systems
1001		
	1, 1, 1, 1, 1, 1, 1, 1, 0	8 part systems
	1, 1, 1, 1, 1, 1, 1, 1, 1	8 part systems + PLC system

#### M80V/M80/E80

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

Display/Setting Convert Pr	int	Display/	Setting Convert P	rint
\$1			\$2	
No. Name	Data	No.	Name	Data
1025 Initial plane	1	1025	Initial plane	2
1037 Command type	1	1037	Command type	1
1073 Initial absolute	0	1073	Initial absolute	C

(2) Number of axes

. . .

Set it in the parameter "#1002 axisno".

- (3) Number of spindlesSet 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	
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 g
1815	L cof A X-axis low acceleration coefficients
1816	Loof B X-axis low acceleration coefficiente
1817	mag C X-axis change magnification A [%]
1821	Heaf A V axis bigh acceleration coefficient 8
1822	Hoof_A T-axis high acceleration coefficient g
1022	Moof A V avia middle appelaration coefficient &
1023	Moof D V evic middle acceleration coefficient g
1024	
1020	Leef D V suis low acceleration coefficient p
1826	LCot_B Y-axis low acceleration coefficient a
1827	mag_C Y-axis change magnification 0 [%]
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	SosToID 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
L	

# 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

Operatio	on Method
(1)	Moving the cursor
	Use the $[\uparrow], [\downarrow], [\leftarrow]$ , and $[\rightarrow]$ 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
	periorni bacch input.
	Example) To set the 1st part system of #1005 furnit (input setup unit) to B and the 2nd part system to C, move
(5)	Axis batch copy / paste
(0)	Target parameter data of one of service 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</copy></copy>
	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  $[\uparrow], [\downarrow], [\leftarrow]$ , and  $[\rightarrow]$  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.
- 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 "#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

- 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	0	0	0	0	-
Move	0	0	0	0	-

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.

heip				
lroop		- 2		
Parame	eter No.:1236			-
Items:				
set08				
Content	t			
0: Fixed t 1: Same	to [°/min] speed as befor	e (When		
inch com comman bit1: Spir Select the actual sn	mand, the spe id speed divide indle speed dete e pulse input so indle rotation s	ed is the d by 25.4. ection ource of need	)	
inch com comman bit1: Spir Select the actual sp Result:	imand, the spe id speed divide ndle speed dete e pulse input so indle rotation s	ed is the d by 25.4. ection ource of need	)	
inch com comman bit1: Spir Select the actual sn Result: No.	amand, the spe ad speed divide adle speed dete e pulse input so indle rotation s 18 Name	ed is the d by 25.4. ection burce of need Content	) S	
inch com comman bit1: Spir Select the actual sp Result: No. 1064	amand, the speed divide adde speed dete e pulse input so indle rotation s 18 Name svof	ed is the d by 25.4, ection purce of need Content Selec	) S 0.	)
inch com comman bit1: Spir Select the actual sp Result: No. 1064 1236	nmand, the speed divide divide speed dete e pulse input so indle rotation s 18 Name svof set08	ed is the d by 25.4, ection purce of need Content Selec bit0:	) S 0.	)
inch com comman bit1: Spir Select the actual sn Result: No. 1064 1236 2207	Imand, the speed divide ndle speed dete e pulse input so indle rotation s 18 Name svof set08 SV007 VIL	ed is the d by 25.4. ection ource of need Content Selec bit0: Set th	) S O. 0.	) • E
inch com comman bit1: Spir Select th actual sn Result: No. 1064 1236 2207 2208	Imand, the speed divide adle speed divide adle speed dete indle rotation s 18 Name svof set08 SV007 VIL SV008 VIA	ed is the d by 25.4. ection burce of need Content Selec bit0: Set th Set th	) S O. 1.	× III
inch com comman bit1: Spir Select th actual sn Result: No. 1064 1236 2207 2208 2231	Imand, the speed divide add speed divide add speed dete indle rotation s 18 Name svof set08 SV007 VIL SV008 VIA SV031 OVS1	ed is the d by 25.4. action burce of need Content Selec bit0: Set th Set th This c	) S O. 1. 	) • E
inch com comman bit1: Spir Select th actual sn Result: No. 1064 1236 2207 2208 2231 2234	Imand, the speed divide indle speed divide e pulse input sc indle rotation s 18 Name svof set08 SV007 VIL SV008 VIA SV008 VIA SV031 OVS1 SV034 SSF3	ed is the d by 25.4. action purce of need Content Selec Set th Set th Set th This c Selec	) S O. 1. 	× =
inch com comman bit1: Spir Select th actual sn Result: No. 1064 1236 2207 2208 2231 2234 12815	mand, the speed divide adde speed divide adde speed dete indle rotation s 18 Name svof set08 SV007 VIL SV008 VIA SV031 OVS1 SV034 SSF3 aux_OD1	ed is the d by 25.4. setion purce of need Content Selec bit0: Set th Set th Selec Set th Selec	) S O. 1.  O.	)
inch com comman bit1: Spir Select th actual sn No. 1064 1236 2207 2208 2231 2234 12815 12825	mand, the speed divide adle speed divide adle speed dete indle rotation s 18 Name svof sv008 SV007 VIL SV008 VIA SV031 OVS1 SV034 SSF3 aux_OD1 aux_OD2	ed is the d by 25.4. section purce of need Content Selec bit0: Set th This c Set th Set th Set th Set th	) S O. 1.  O. 0.	× =
inch com comman bit1: Spir Select th actual sn No. 1064 1236 2207 2208 2231 2234 12815 12825 12835	Imand, the speed divide dide speed divide e pulse input so indle rotation so 18 Name svof set08 SV007 VIL SV008 VIA SV030 VIA SV034 SSF3 aux_OD1 aux_OD2 aux_OD3	ed is the d by 25.4. sction burce of need Content Selec Set th Set th Set th Set th Set th Set th Set th	) S O. 1.  O. 0. 0.	· · ·

## 4.2.5 Parameter Modification History

	M8V/M8/E80	C80	M7/E70	C70	M60/M60S
History	0	0	0	0	0
Move	0	0	0	0	0
Return	0	0	0	0	-

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
-	-	0	-	-

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.

MC Configurator2 - [Project1]								
: Toject(P) NC data(D) Commu	nicate(C) Tool(T	View(V) Languag	e(L) Window(W)	Help(H)				- # ×
	<u>fi 0</u>							
NC Data	Display/Setting	Convert Print			•	Help		×
Machine information								a 🗸 🔎 🙀
☆ Parameter	Parameter co	nversion						-
Classification	110 01			Prouve Convert		•	MITSUBIS	HICNC
😸 User param	Mo paramine	·		Conter				
☆ Base spec param	System lang	juage(#1043)						
BaseSys param BaseAx spec param	engl	ish 🗇 T	raditional chinese	Polish				
BaseCom param	🔘 Japa	anese 💿 K	orean	Simplified chinese				
⇒ Axis spec param	Deut	tsch 🔘 P	ortuguese	Russian		Para	ameter	
servo param ≼ Spindle param  ≣	Fren	ch 🔘 D	lutch	Turkish		inst	uction	•
Machine error compensati	🔿 tala	n ⊚S	wedish	Czech		mou	dottorn	-
					E			-
Macro list	U Spar	nisn 🕒 H	unganan					×
<ul> <li>Position switch param</li> <li>Open param</li> </ul>						Repuit		0
× CC-Link param	· · · · · · · · · · · · · · · · · · ·					Mo.	Name	Content
PLC Index param	The following	parameters need to be	set manually.	Save		NU.	INGINO	COREIR
Tool life								
Tool compensation	Parameter list							
Common variable	No.	Param No.	Bt No.	Remarks				
Work offset								
• <u>س</u> +								
NC Data								
Standard RS232C communicatio								
Function parameter								
Ready			System ty	pe: M System NC series: M70V/E70				CAP NUM

#### **Operation Method**

(1) Create a new project for the series after the conversion.

Display/Setting Convert Print

Parameter conversion

(2) Select [Parameters] in the navigation view and select [Convert] tab.

A project file will be created.

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.

	-		-	00
No.	Param No.	Bit No.	Remarks	1
24	1221			1
25	1222	0,1,2,3,4,5,6,7		
26	1223	0,1,2,3,4,5,6,7		
27	1224	0,1,2,3,4,5,6,7		
28	1225	0,1,2,3,4,5,6,7		
29	1226	0,1,2,3,4,5,6,7		
30	1227	0,1,2,3,4,5,6,7		
21	1229	01234567		

- (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
0	0	0	0	0

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** Open the source project file to be compared. (1) (2) Select [Tool]-[Param comparison] from the menu. Selection screen for the project files to be compared appears. Parameter types which can be selected are displayed on (3) Select the target project file to be compared. Files in different projects can only be selected. the comparison content selection screen. To compare by selecting unopened project file or parameter file, press [...] on the right side of pull-down menu to select. \$1-1 X \$1-2 Y \$1-2 Y (4) Press [Compare] at lower right of the screen. Comparison result will be displayed. The parameter type to be compared can be selected. 1013 1021 1022 2001 2004 2007 2027 2028 2054 2055 2211 BaseAs spe BaseAs spe BaseAs spe Asis spec Asis spec Zp-th parar Zp-th parar Asis pos par Abs pos par Abs pos par axname mop\_no axname3 rapid G28L G28A gmask gmask gmask gmask guahf SV015 r 100 500 600 1,000 1,200 1 X 1000 100 0.000 0 0 3072

comparison result.

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

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].

rojecti		- E X	Project2		
play/Setting Print			Depley/Setting Pint		Heb
	I.J.				Key word 1(space)Ke 👻 🔎 🙀
Nane	×	¥	No. Nane	×	Parameter No. 2001
2001 repid	1000	1000	2001 repid	1000	
2002 danp	1000	1000	2002 clamp	1000	literns:
2003 singst	0011	0011	2003smg#	0011	
2004 GBL	500	100	2004/G/01	100	rapid Rapid traverse rate
1005 G B 1	100	100	2005/5/21	100	
2006 G 0.2	0		20065012		Content.
10076 NL	600	100 #	2007G1tL	100 0	
2008.6 21	100	100	2008.511	100	Set the rapid traverse feedrate
2009 G %2	0		2009.5 %2		for each axis.
2010hvd_g	45	45	2010/wd_g	45	(Note) The maximum value to
zennedeek	0		SULLADBOX		De set depends on the
2012G Tbeck	0		2012G1beck		machine specifications.
101301-	1.000	1000	201301-	1000	Continue and a film in
201401+	1,000	1.000	201401-	1.000	Setting range (Unit).
10000	0.000	0.000	20150m-	0.000	
isor can be ineved by I = Left/Right in the input area.	1.00		Cursor can be moved by Ch1 + Left/Right in the input area.		Result: 0
					No. Nome Conte
	Zanta A	and down	BaseSys BaseAx BaseCom	Zorn Paras	
eSys Base/w BaseCom	2010 April 10				

\*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

The comparable project combinations are as follows. (1)

Source project for	Tar	Target project for comparison							
comparison	M8V/M8/E80/M7/E70	C80	C70						
M8V/M8/E80/M7/E70	0	-	-						
C80	-	0	-						
C70	-	-	0						

(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.

24		Sys/Ac select (r	every project can select a	one system or one sola	only)		
waredet types		Source project			Target project		
Comparison     C	r Jacam peop paran peop paran peopone le paran proton paran me etror configuration paran me etror configuration paran me etror configuration paran paran bit di parane nigo parane nigo parane nigo parane nigo parane	2ydem	Servo add Star X St-2 Y St-2 Y St-3 Z	Sanda	System	5 81-3 X 2 81-3 X 2 81-3 Z	Spode
ve number of Pi Source project: Target project:	C axis is assigned from PLC Project 1 Project 1	1 in C70 PLC index	parameter, (e.g.)PLC ind	ix parameter number i	a <1> when select PLC		•

Select the part system or axis for source project and target project. Press [Compare] at lower right of the

Comparison result will be displayed. (The following screen shows a comparison result of different servo axes of the same project.)

nameter types	12 differe	nce(s) and 12 parameter	s) are found.			
Parameter(12)	No.	Param type	Param name	Sys/Ax	Project 1(\$1-1.2)	Project 1(\$1-2 1)
Base spec param[3]	1013	Base/x spec param	actante		y .	Y
Artis spec param(7)	1221	Base/x spec param	mcp_no		1000	1003
-Servo param(2)	1922	Date-vol spec param	acranez		-	1000
B - Spindle param     Rotary axis configuration param     Machine error compensation     PLC param	2001	ves spec	repo Colu		100	1000
	2004	All spec	Chi		500	100
	2007	The spec	CINE		1000	0.000
	2027	Zprini peremi	0.2084		1,000	0.000
Protion and the same	2000	2011 parami	gran		1.200	0.000
-10 assiss name	2004	All the party of the second	oposri -			0
in COlinic own	2000	Company and a second	F101110001		2048	2022
PLC Index param	2222	Serve param	E10178201		2018	2072
	****	Jerro parant	andrapping		2010	2012

(5)

screen.

(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].

DownEl Middaelli Comp	Citer Charge	March I	(less and	Moderall	0 1000							Î
	6.0										-	Î
	Davin Setro (	First							Hep			
Machine information		111									< (A)	
Parameter		_	_	_	_	_						
* User param	No. Name		_	X		Y	2		Param	eter No.:20	91	
Process param	2001 rapid			1200		500	1000					
Central pages 1	2002.clanp			1000		1000	1000		toma:			
Easter and 2	2003 anget			0011		0011	0011					
Aria commo	2004 GBL			100		120	100		repid Ra	abid paverse	rote	
Protocolda a	2005001			100			100					
LO seres	2005302				_			_	Conter			
copean	2001010			100		200	100					
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Link paran	2010hed o					1			(Netw) T	ne. De respireses	station to be	
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Heru select	20130T-			1.000		1.000	1,000					
* Ease spec param	2014OT+			1,000		1000	1.000		Setting	range (Un	i0.	
A Avis spec param	2015/mi-			0.000		0.000	0.000					
Asis spec	Cursor can be mi	wed by										
Zp-tin param	Cot - Left/Right		a. I						Result: 0			
Abe pos perem							A 12	05 15:15	No.	Name	Content	
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Rotary asis configuration pane	param ape	param	spec	param	number	0097	Footo axi	2				
¥ Machine error compensation												
V DiCasos	Paramitipe	Paran Na.	Sys/Ax	Selore	Alter	Ten		Modifer *				
	Servo peren	2212	\$12	3072	2	201	9-04-10 15:13:00	-				
NC Data	Servo param	2211	\$1-2	3072	1	201	5-04-10 15:13:00					
	Abs pos param	2055	81-2	0	10	201	90410151254	And Address of Taxabase				
Function parameter	Abs pos param	2254	\$1.2	0	5	201	5-04-10 15:12:54	-				
	49-m peran	2545	31-2	0.000	1,200	201	9-06-10 15 12:45	and the local division of the local division				
	11 caren peram	encl	914	0.000	1.100	201	20410151243	-				

\*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	Tar	get project for compari	son
comparison	M8V/M8/E80/M7/E70	C80	C70
M8V/M8/E80/M7/E70	0	-	-
C80	-	0	-
C70	-	-	0

(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	0	0	0	0	0	-
USB	-	-	-	-	0	-
RS232C	0	-	-	0	-	0

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.





## 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. Project is displayed. (It can be abbreviate if it is new read.) Select [Communicate]-[Read from NC] from the menu. "Read from NC" window appears. (2) Work offse Press [Settings] in the Communication method frame. (3) "Communication settings" window appears. C70 se Test Finish (4) Set the communication settings and press [Finish]. (5) Select the data type to read and press [Read] or A reading completion message appears after the reading [Create a new project]. is finished. NC Configurator2 X Reading completed OK

#### Caution

- 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.)
   This function connect be used action.
- (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**

<text><text><text><text><image><image>

Test	Frish

- (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
0	0	0	- (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)

Туре	M8V/M8/ E80	C80	M70V/M700V	M70/M700	E70	C70	M60/M60S
Machining center system	0	0	0	-	- (Note 1)	-	-
Lathe system	0	0	-	-	-	-	-

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.

	<u>n 0</u>											
unction parameter	Display/Setting							<u>^</u>	Help			>
igh-speed high-accuracy fachining condition select I	[Machining condition	in select []				Function paramet	er 1/2		Key word 1(	ipace)Key wo	nd2 👻 🔎 🕍	
oft limit hread cutting	Appli	ation1	PRC1									
	Standar	d parameter			Machining cond	Param set			Items:			
				C	Condition 1	Condition2 Con	dition3		G1bF Ma	ximum spe	ed	
	1206 G1bF			1000	0.000	0.000	0.000					
	1207 G1btL			100	(	0	0		Conten	2		
	1568 SfiltG1			0	(	0	0		(14.0)			
	1570 Sfilt2			0	(	0	0		Set a cut	ting feedrate	when applying	
	2010 fwd_g			45	(	0	0		pre-inter	polation		
	8019 R COM			0	(	0	0		accelera	tion/decelera	ation.	
	8020 DCC. A	VGLE		0	(	0	0		When hig	gh-accuracy	control time	
	8021 COMP_	CHANGE		0					constant	expansion is	s valid, set the	
	8022 CORNE	RCOMP		0		U	0		maximur	m of cutting f	leed clamp	
	8023 CURVE	COMP		0	(	0	0		speed of	each axis.		
									Setting	range (Un	it):	l
									[M8]			
	Prev.	App Chang	e 🗌	Read	Write	Execute Init.	Next		41 1000			,
								ш	Result: 0			
NC Data	Param type	Param No.	Sys/Ax	Before	After	Time	Modifier		No.	Name	Content S.	
	Machining con	41999	CON1		PRC1	2019-04-10 16:00:23	-					

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
0	0	0	0	-

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.

		Setting							^	Help		
speed high-accuracy	Cold have						E contra company	1/1		Key word	(space)Key wo	- P
ining condition select I	[Soft init	9					Function parameter	1/1				
mit	No.	Name			x	Y	Z			Param	eter No.:20	13
d cutting		<machi< td=""><td>ine tool builde</td><td>r settings&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></machi<>	ine tool builde	r settings>								
	2013	OT-			1.000	1.000	1.000			Items:		
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	2063	OT_1B	type		0	0	0			C		
	2061	OT_1B	-		0.000	0.000	0.000			Conte	а.	
	2062	OT_1B	l+		0.000	0.000	0.000			Set a se	oft limit area y	with reference
		<end td="" u<=""><td>iser settings -II</td><td>/IIB(option)</td><td>&gt;</td><td></td><td></td><td></td><td></td><td>to the z</td><td>ero point of th</td><td>ne basic</td></end>	iser settings -II	/IIB(option)	>					to the z	ero point of th	ne basic
	8210	OT INS	SIDE		0	0	0			machin	e coordinate.	Set the
	8204	OT-CH	ECK-N		1.000	1.000	1.000			coordin	ate in the neg	gative
	8205	OT-CH	ECK-P		1.000	1.000	1.000		-	directio	n for the mov	able area of
		<other< td=""><td>settings&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td>stored s</td><td>stroke limit 1.</td><td>The</td></other<>	settings>							stored s	stroke limit 1.	The
	8202	OT-CH	ECK OFF		1	1	1			coordin is set in	ate in the pos	sitive directio
	8203	OT-CH	ECK-CANCEL		0	0	0			To nam	ow the availat	ble range in
	2021	out_f			0	0	0			4		
	2022	G30SL	х		0	0	0					
	2023	ozfmin			0	0	0					
										Result:	0	
	Previo	ous axis		Read	1	Write		Next axis		No.	Name	Content
				•					1			
	Paramit	lvne	Param No	Svs/Ax	Before	After Ti	ime	Modfier	1			

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
0	0	0	-	-

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.

	1.0			30030(c)							- 0'
	Dienlass/Sattin							-	Help		
dialiterei	Diapity/ John	עי							Key word	1/snace)Key wo	
a nigh-accuracy	[Thread cuttin	g]				Function parame	ter 1/1				
conduori select i	Ne	Mana		Calling	-				Paran	neter No.:11	15
Hina	140.	(Thread cutting)		Journy +	800						
lang	1115	thurst			0				Items		
	12716#2	Ecommand unit		_	0						
	1229681	Accurate thread o	utting E		0				thwait	Naiting for retr	act
	/9150		durig c								
	1270686	Thread cutting 7	tiew each		0				Conte	nt:	
	1270040	(The automatic to	ol length me	a sei irement /	are thread or	flings					
	1239570	Switch G36 functi	on on		0	an yr			Set the	number of wa	its for retract
	12000AU	<c axis="" internolati<="" td=""><td>on type three</td><td>ad cutting&gt;</td><td></td><td></td><td></td><td></td><td>cutting</td><td>namiening is c</td><td>/FF III ulleau</td></c>	on type three	ad cutting>					cutting	namiening is c	/FF III ulleau
	No	Name		Setting v	alue				county		
	11023	G33 n Dm		ooting t	0			=	Settin	a range (Un	it):
	11024	G33 n fbd			0						
	11024	00031110		\$1					0 to 99	(Approx. 4 ms	)
	12013	G33 n mt							Standa	rd setting valu	e: 4
	12014	G33.n.ovr			0						
	19401	G33.n chamfer sp	d		0						
									_		
									Result:	0	
			Deed			Mar			No.	Name	Content
			Nedu			vine					
								. 1			
	Param type	Param No.	Sys/Ax	Before	After	Time	Modifier				
lata											
tion parameter											
								-			

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)

1	M8V/M8/E80	C80	M7/E70	C70	M60/M60S
	-	-	-	-	0

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**

Select [Roundness] in the tree. (1)

Roundness adjustment procedure will be displayed.

ndness adjustment	
Roundness adjustment procedure	
Mitie adjusted parameter into NC fudjust relatived parameter -	Start Parameter backop Cancel machine error compensation Initial sampling certing Bet sampling condition Read sampling data from NC Display the waveform N Statified 7 Y Restore machine error compensation

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

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

Roundness]			Adjustment 1/
- Machine error compensation - #2011G0 back #2012G1 back #4006Compensation scale factor	A>0£ ▼ A>0£ ▼	Sampling dis Test radius Test plane	play condition
#4016Compensation scale factor #4026Compensation scale factor		Arc interval	0.005
- Roundness adjustment param			
#2227(SV027) SSF1	AX0: •	LMC invalid     LMC 1     LMC 2	Error comp. cancel
#2216(SV016) LMC1	AXE -		Sampling display
#2241(SV041) LMC2	AXE -		DDB display
#2239(SV039) LMCD	AXE -		Write changed param
#2243(SV043) OBS1	AXE -		
#2244(SV044) OBS2	AXE -		Error comp. restored

(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].
- (7) Press [OK].



A completion message appears after the writing is finished.

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.

ad roundness sampling data(from NC)	×
MC side = idease	
1. Set "#1224 640" to "1" and "#0110"(//O accession) to "0"	
1. Set #1224/bit0 to 1, and #3116 (//O parameters) to 0.	
<ol><li>Press [DIAGN IN/OUT] button.Select [Support] menu,and turn to 2nd page to set NC sampling.</li></ol>	
#O SMT O SMT COUNER	
<basic> XY YZ XZ</basic>	
#1 CYCLE 6 #11 ADDR100000100 00000200 00000100	
# 2 MARKS 2 # 12 ADDR200000200 00000300 00000300	
# 3 BAFFER 0 # 13 ADDR3	
#4 CAPACITY 2 #14	
#5 0 #15	
# 16	
#()()	
Input Hot (as the setting area num response)     Enter "S" at [#()] and press [INPUT].     Fress [Input/Cal] button at NC side.	
Communication state	
Ready to read data from NC	
Sampling data	
	Communication settings
	Sampling end

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





#### **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	8/E80	C80	M7/E70	C70	M60/M60S
-		-	-	-	0

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.

MC Configurator2 - [Project1]			
Project(P) Parameter settings(R)	Initial settings(I) Adjustment(A) Communicate(C	Tool() View(V) Language(L) Window(W) Help(H)	- 60
	10		
NC Data	Display/Setting		A Help
☆ Parameter setting	[High-speed high-accuracy]	Adjustment 1/2	•
Base spec param	Acc/dec.performance	Fairing control	MITSUBISHI CNC
NC Axis param	#1206G1bF	#8033Fairing ON O Invalid Valid	
NC servo param	#1207G1btL	#8034 AccClamp ON O Invalid Valid	
Spindle param	Inclination angle	#8029FairingL	
Machine error compensati	at acc/dec.		
PLC param	G code type	Speed control at the arc entrance or exit	
Macro list	#1267	#1149cireft	Parameter
Posn switch param	L	#1209cirdcc	i didificici
Process param	SSS control		Instructions
I/O param ∷	#8090SSS ONInvalid_ Valid	#1572Cirorp	
Anshin-net param	#8091StdLength	Soline control	E
Option	#8092ClampCoeff	#8025Spline ONToyalidValid	
NC spec		O Invalido Valid	
☆ Initialization	#8093StdLeng	18026CANCEL ANG.	
Base system	#8094 DccWaitAdd	#8027Toler-1	
Servo axis	#8095 Tolerance	#8028Toler-2	*After setting up the
Servo drive unit			parameter (PR),turn off the
Spindle drive unit	#15/1555dis	#8030MINUTE LENGS	NC power. To validate the
☆ Adjustment			parameter,turn on the power
Houndness	PREV.	READ WRITE NEXT #	ayam.
High-speed high-accuracy			
		10 T H 10	
NC Data	Param type Param No. Sys/Ax Beto	re Atter lime Modifier	
	[BASE SPEC.P 1002 2 IDASE SPEC.P. 1001 2	1 2015-04-15 13:53:15 Guoyu	
Standard K5232C communicatio	IBASE SPEC.P 1007 2	1 2015-04-15 13:53:12 Gubyu	
	[BASE SPEC.P 1001 1	1 2015-04-15 13:52:53 Guoyu	+
Ready		System type: M System NC series: M60/M60S/E60/E68	CAP NUM

## 4.5.3 Servo Adjustment (M60/M60S Series)

M8V/M8/E80	C80	M7/E70	C70	M60/M60S
-	-	-	-	0

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

(2)

(1) Select [Servo adjustment] in the tree.

Check the procedure and press [OK].

Servo adjustment procedure will be displayed.

Serve	adjustment procedure	
	Bart	
	Parkiner Goodp	
	Chiefe actual machine condition	
	Check actual machine spec	
	Check actual current loop parameter	
	write initially parameter into NC	
	Resonance suppression adjustment	
	VON adjustment	
	PON adoptment	
	-	
	Acceleration/secesarition time.unbalance torque setting	
	Write adjusted parameter into NC	
	8	Note : If actual machine
	Y Y	condition,actual machine spec actual current loop parameters
	Restore machine error compensation	were changed after writing the initially parameters into NC
	Completed	they will be written into the NC



#### The adjustment screen will be displayed.

Machine condition		Machine specifications	
#2201(SV001) PC1	· · ·	#2001rapid	· ·
#2202(SV002) PC2	-	#2002clamp	-
#2217(SV017) SPEC1		#2003smgst	
#2218(SV018) PIT	-	#2013Soft limit I -	-
#2220(SV020) RNG2		#2014Soft limit I +	-
#2225(SV025) MTYP	×		
#2236(SV036) PTYP	-		
		Machine error comp.pa #2011G0 back	ram
- O mont lean energy		#2012G1 back	+
#2209(SV009) IQA		#4006SC axis1	
#2210(SV010) IDA		#4016SC axis2	
#2211(SV011) IQG		#4026SC axis3 [	
#2212(SV012) IDG		#4036SC axis4	
NC param backup Writ	e setup param	Write changed param	ror comp. restored
			1
			PARAM N
(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].





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

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

[Write parameter to NC] screen will be displayed.

Data selection		NC side ready.
<ul> <li>Specified parameter</li> </ul>	<ul> <li>Modified parameteri</li> </ul>	
De Diracaneter type     Diracaneter type     Diracaneter type     Diracaneter type     Diracaneter     Diracaneter	Note: 1. Select (Modified parameters), write parameters only which were charged. 2. If other parameters when reaged. 2. If other parameters out lead as the damage to the NC.	Write Communication settin
NC side guidance 1. Press [DIAGN IN/OUT] button. 2. Press [INPUT] button. 3. Enter "3" in [#()] and press [I 4. Press [INPUT CALC] button.	NPUT] button.	
Progress		
0	%	

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

Write parameters to NC

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
0	0	0	0	-

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

(3)

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

						C Initialization
nnon settings						
	Set	ing item		Setting conte	4	
	NC type		MBOV			
	System type		MI			
	Language		English			
	Unit		FW7			
lem settings						
	Setting item	Axis number	Command unit	Costol unit	Command type	
	No.1 System	3	fjam	0.0(1µm(1nm)	Series1(M)H	
	No 2 System	0	1µm	0.001µm(from)	Series1(M)-I	
	PLC asis	•	1µm	0.001µm(frm)		
	opinale	1		spe		
nip intranation						

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

After entering various data, press [Finish].

•

Moves to "Basic information" window.

irvo Settir	Ça					Insert Axis(up)	Insert Axis(down)	Delete A	is Advar	ced Settings
Servo Avis No.	Command	Daplay	Rotary	Driver Unit	Motor Tipe	Motor detector resolution	Power supply unit Regenerative resistor	External Energency stop	Contector Control output	Synchronou Control
\$1-1	x	x	CH1-1	EM-SPV3-80	HK55	Auto setting				Invald
\$1.2	Y	Y	CH1-2	EM-SPV3-80	HK55	Auto setting				invald
\$1-3	z	z	CH1-3	EM-SPV3-80 ~	HK55	Auto setting				Invalid
				E-W-160W E-W-20 E-W-40 E-W-80 E-W1-160 EH-V1-160W EH-V1-160W EH-V2-160 EH-V2-160 EH-V2-160 EH-V2-160 EH-V2-10 E						
oindle setti	125			EH-Vx-80W EJ-V1-10		Inset Avis(up)	Insert Axis(down)	Delete A	is Adva	oed Settings
Spindle No.	Spi drive	ndle type	Rotary ewtich	EJ-V1-100 EJ-V1-15		Motor Type	Power supply unit Regenerative resistor	External Emergency stop	Contactor Control output	Spindle C Axis
S1	MITSUBIS	HI Driver	CH1-0	EJ-V1-40 EJ-V1-80 EJ-Vk-30 EJ-Vk-40 EJH-V1-15 EJH-V1-20 EJH-V1-40 EJH-V1-40 EJH-V1-40	SJ-D6.5/100	101(normal)				Invalid

Refer to the "Detailed description" for details.



A project file which includes the initial parameters is created.

	10	
4C Data	Display/Setting	< Help
Machine information	Basic Information	Key word 1 (space) Kit 👻 💋 🦉
x Parameter	Customer:	
× Base your name		A MITSOBISHI CNC
Aria spec parem	Machine maker:	
Servo param		
<ul> <li>Spindle param</li> </ul>	Machine name	
Rotary axis configuration para		
8 Machine error compensation	Machine No.:	
8 PLC param		
Macro list	Remarks:	
Position switch param		
VO assign param		D 1
8 Open param		Parameter
8 CC-Link param	Creator information	instructions
Machine Model name	Created by.	
M time comm		
COLEF BASIC		
INCORPOR OR parame	NC information	
s Safety parameter	NC hose:	
Tool life		
	Seriel No.:	
Tool compensation		
Tool compensation Common variable	NC Vec	
Tool compensation Common variable	NC Vec	

## 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.

Setting item	X	Y	Z				
iver Unit	EM-SPV3-80	EM-SPV3-80	EM-SPV3-80				
otor type	HK55	HK55	HK55				
is type	Linear axis	Linear axis	Linear axis				
tor:Machine gear ratio	1:1	1:1	1:1				
	Equation	Equation	Equation				
all screw pitch	10	10	10				
sition control method	INC	INC	INC				
S position detection method							
						Previous avia	Next avia
tert						Previous axis	Next axis
riert					 	Previous axis	Next axis
iterit					 	Previous axis	Next axis
tert				<u></u>	 	Previous axis	Next axis
tert Ing range				×	 	Previous axis	Next axis
tlent ting range				×	 	Previous axis	Next axis

Setting item	X	Y	Z			
Driver Unit	EM-SPV3-80	EM-SPV3-80	EM-SPV3-80			
lotor type	HK55	HK55	HK55			
apid traverse rate(mm/min)	1000	1000	1000			
apid traverse acc/dec type	Linear-Linear	Linear-Linear	Linear-Linear			
0 time constant 1(ms)	100	100	100			
0 time constant 2(ms)						
utting feedrate (mm/min)	1000	1000	1000			
tting feed acc/dec type	Linear-Linear	Linear-Linear	Linear-Linear			
1 time constant 1(ms)	100	100	100			
1 time constant2(ms)						
					Previous ax	s Next axis
tert					Previous ax	s Next axis
tert			4		Previous ax	s Next axis
tert			۵ ۷		Previous ax	s Next axis
tert Ing range			Å		Previous av	s Next axis
tert Ing range			۵ ۷		Previous av	s Next axis

Setting item	Y	Y	7	1			
Seturg item	CM CDV(2.00	EM CDVD 00					
Univer Unit	EM-SPV3-60	EM-SPV3-80	EM-SPV3-60				
viotor type	HINDO	MR00	HN00				
Detector type	No connection	Ivo connection	No connection				
oignaí iype Dataation mathad							
Detection method							
vanuracturer							
etector type							
ntenace unit							
Vesolution							
						Previous axis	Next axis
ntent						Previous axis	Next axis
ntent				A		Previous axis	Next axis
ntent				۵ ۷		Previous axis	Next axis
ntent ting range				Å		Previous axis	Next axis
ntent ting range				A V		Previous axis	Next axis

(3) Spindle Advanced Settings

Colline Arm	C1	 1	 1	T T	
Setting item	51				
iver Unit	EM-SPV3-100				
otor type	SJ-D5.5/100-0				
indle drive method	Timing bet				
aximum motor speed	10000				
otor:Spindle Gear1	1:1				
nit Rotation Speed1 (r/min)	10000				
	Equation				
otor:Spindle Gear2					
nit Rotation Speed2 (r/min)					
des Catalla Casa?					
otor:Spindle Gears					
nt Rotation Speeds (r/min)					
otor:Spindle Gear4					
nit Rotation Speed4 (r/min)					
aximum Rotation Speed1(r/min)	2000				
aximum Rotation Speed2(r/min)					
aximum Rotation Speed3(r/min)					
tent		 	 		
		*			
		~			
ing range					
		~			
		-			

## (4) Check

Setting item	C			D: 11.	1	D Lt	
	Setting value	Servo axis No.	Display name	Driver Unit	Motor type	Resolution	
NC type	M80V	\$1-1	X	EM-SPV3-80	HK55	Auto setting	
System type	Mil	\$1-2	Y	EM-SPV3-80	HK55	Auto setting	
Language	English	\$1-3	Z	EM-SPV3-80	HK55	Auto setting	
System number	1						
Servo axis number	3						
Spindle number	1						
		Spindle settings					
		Spin	dle No.	Driver Unit	M	otor type	
		S1		EM-SPV3-100	SJ-D5.5/100-01(no	mal)	

## 4.6.2 Initial Setting After Creating the Project

M8V/M8/E80	C80	M7/E70	C70	M60/M60S
0	0	0	0	-

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.

No Selan	gs					Insert Acts(up)	Inset Ads(down)	Delete Av	ia A	dvanced Settings
Servo Axis No.	Command	Duplay name	Rotary switch	Driver Unit	Metor Type	Notor detector resolution	Power supply unit Regenerative resistor	Esternal Emergency stop	Contacto Control out	r Synchronous out Control
\$1-1	X	х	CH1-1							
31-2	Y	Y	CH1/2							
\$1-3	Z	z	CH1-3							
nde seti	ngs —					Inset Asis(up)	Inset Asis(down)	Delete Av	a A	dvanced Settings
Spindle	Spi	de	Rotary	Driver	M	otor	Power supply unit	Edemal	Contacto	Spindle
	Sine	10.94	CULO	U.S.		1946 -	The generative research	considered and	COLOR COL	
			GIIIG							

Refer to the "Detailed description" for details.

The parameter modification is reflected to the target

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

Project (2) NC data (2) Comm	nicate() Tool() Vew() Language() Window() Heb(5)	
DOBINDIA A		
	<u>E 0</u>	
NC Date	Display/Setting	<ul> <li>Help</li> </ul>
Machine information	Pasis information	Key word T(space)Key x 🔹 🔎 🙀
R Parameter	0.000	
¥ Userparam	Customer:	MITSUBISHLONG
8 Base spec param		
¥ Axis spec param	Machine maker.	
Servo param		
¥ Spindle param	Machine name:	
Rotary axis configuration para	Headawa Maria	
X Machine error compensation	Machine No.:	Parameter
¥ PLC param	Denster	Faranieter
Macro lat	Perata.	
Position switch param		
DO assign param		Percet U
<ul> <li>Open param</li> <li>CO Link assess</li> </ul>	Contraction	No. Name Conter
PLC before a series		
Machine Model cares	Created by:	
M free owner		
COLEE BASIC		
¥ Safety parameter	NC information	
Tool Me	NC type:	
Tool compensation -		
Tool compensation	Serial No.:	

## **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

Come	Command	Disalau	Datas	Dium	Mater	Mater detector	Reverse weeks wet	External	Contantos	Conchange
Axis No.	name	name	switch	Unit	Type	resolution	Regenerative resistor	External Emergency stop	Contactor Control output	Control
\$1-1	X	х	CH1-1	E-Vx-160	HK154	Auto setting	No connection			
\$1-2	Y	Y	CH1-2	E-Vx-40	НК76 ∨	Auto setting	No connection			
\$1-3	Z	Z	CH1-3		_					
					012C20(TM-RI					
					2R06M(LM-F)					
					HG104					
					HG105					
					HG123					
					HG142					
					HG154					
					HG223 HG302					
					HG54					
					HG75					
					HG96					
					HK104					
indle settir	nga —				HK105 HK123	<ul> <li>Insert Axis(up)</li> </ul>	Insert Axis(down)	Delete A	ós Advar	ced Settings
Spindle No.	Spir	ndle type	Rotary switch	Driver Unit	HK142 HK223	Motor Type	Power supply unit Regenerative resistor	External Emergency stop	Contactor Control output	Spindle C Axis
S1	MITSUBIS	HI Driver	CH1-0	EJ-SPx-20	HK302		FCUA-RB22	Invalid	Invalid	
					HK55					
					HK76					

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

		Axis No.	Туре	tem	Before	Now
		\$1-1	Modify	DriverUnit		F-Wr-160
Setting item	Setting value		Modify	MotorType		HG354
System number	1		Modify	Motor detectorresolution		Auto setting
Servo avis number	3		Modify	Power supply unit Receperative resistor		No connection
Soindle number	1	\$1-2	Modify	DriverUnit		E-Vx-40
			Modify	MotorType		HG75
			Modfy	Motor detectorresolution		Auto setting
			Modify	Power supply unit Regenerative resistor		No connection
		S1	Modfy	Spindledrive type		MITSUBISHI Driver
			Modify	DriverUnit		E-SPx-20
			Modify	MotorType		HG75-D48
			Modify	Power supply unit Regenerative resistor		E-CV-37
w			Modify	External Emergency stop		Invalid
			Modify	Maximum motor speed		4000
			,			
Setting item	Setting value					
System number	1					
Servo axis number	3					
Spindle number	1					
		Attention: 1.Insert/del changed. 2.Initial setu 3.About mo [Finish]:Ma [Cancel]:G	ete operation up will not be dify history ke the settin ive up the in	n has occurred in Base Setting, even if insert or d executed if the setting item is blank. Ig value be effective. It will delete all modify histor tial setup for change. The status of modify history	elete information has y after finishing setting will be returned to the	not displayed in detail, parameter has probably been , time before starting this function.

## NC Configurator2 Instruction Manual 4 Basic Operation

5

## Standard RS232C Communication & Tape Mode

## 5 Standard RS232C Communication & Tape Mode

## 5.1 Tape Mode

M8V/M8/E80	C80	M7/E70	C70	M60/M60S
-	-	0	-	0

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.

MC Configurator2 - [Project1]			
Project(P) Tape mode(D) Comm	unicate(C) Tool(T) View(V) Language(L) Window(W) Help(H)		- 8×
	10		
Standard RS232C communication _Ta	Tape mode	<b>^</b>	Help ×
Tape mode			Key word1(space)Key w 👻 🔎 😭
Standard RS232C communication	Machining program list (Double dick to open a program )		<u>م</u>
	No. Program file O Program No. Size Machining content Machining		
			E
			D
	< >		Parameter
	Annend Delete Modify Move up Move down	Ξ	instructions
	Current program		
	Row No. Program content		
	No machining program was specified. Double click to open a program from the list.		-
			×
			Result: 0
			No. Name Content
NC Data			
Standard RS232C communicatio			
		-	
Ready	System type: M System NC series: M70V/E70		CAP NUM

## **Operation Method**

	lotilot		
(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
-	-	0	-	-

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

MC Configurator2 - [Project1]			
Project(P) Tape mode(D) Comm	unicate(C) Tool(T) View(V) Language(L) Window(W) Help(H)		- 8×
	0		
Standard RS232C communication _Ta	Send text Receive text		Help ×
Tape mode	,	🔲 De estiva sida secolo	Key word1(space)Key w 👻 🔎 🚉
Standard RS232C communication	Select a text file	Receive side ready	
			MITSUBISHI CNC
	Sent text		
			=
			Deremeter
			Falameter
		E	Instructions
			-
			×
			Result: 0
			No Name Content
	Communication settings	Send	
NC Data	Commanication sectings		
Standard RS232C communicatio	Progress		
	09/		
K Function parameter	0%		
Ready	System type: M System NC series: M	70V/E70	CAP NUM

## Operation Method

- (1) Select [Standard RS232C communication] in the tree and choose [Send text] tab.
- (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].

Send text screen will be displayed.



The contents of sent text will be displayed in the text box.

## 5 Standard RS232C Communication & Tape Mode

## 5.2.2 Receiving Text

MC Configurator2 - [Project1]	municate(C) Tool(T) View(V) Language(L) Window(W) Help(H)			- 6 ×
Standard RS232C communication Ta Tape mode Standard RS232C communication	Send text Receive text Communication state Ready to receive data Received text data		Hep Key word 1(space)Ke Mittsu Paramet instructio	BISHI CNC
NC Data	Communication settings Receive Save as	•	Result: No. Name	Content

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



The contents of received text will be displayed in the text box.

# Appendix 1

**Registration after Installation** 

## 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].	•	Register       Image: Cancel         OK       Cancel         Registration succeeded message appears.         NC Configurator2         Image: Registering completed.         Image: OK

# 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.

Appendix 2 Restrictions

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 proj- ect, 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 2 Restrictions

# Appendix 3

**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	to cancel. 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] scree 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 $\sim$ system $\sim$ axis $\sim$ . 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 $\sim$ system $\sim$ axis $\sim$ . 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 $\sim$ system $\sim$ axis $\sim$ . 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 $\sim$ system $\sim$ axis $\sim$ . 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 $\sim$ system $\sim$ axis $\sim$ . 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 $\sim$ system $\sim$ axis $\sim$ . 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 $\sim$ system $\sim$ axis $\sim$ . 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 $\sim$ system $\sim$ axis $\sim$ . 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.	

<b>F</b> unction	Maaaaaa	Datail	Domodu
Function	Message		Remeay
	The maximum feedrate is not set for $\sim$	M6 series Initial Setup - On servo axis	Set maximum feedrate of part
M6 Initial Setup	system $\sim$ axis $\sim$ . Set it and then	screen, clicked [Finish] without setting the	system axis and execute initial
	initialize the parameters.	system and maximum feedrate of axis.	setup, after [OK] is clicked.
	The absolute position detection method	M6 series Initial Setup - On servo axis	Set absolute position detection
MG Initial Catur	The absolute position detection method	screen, clicked [Finish] without setting the	method of part system axis and
Mo Initial Setup	is not set for $\sim$ system $\sim$ axis $\sim$ . Set it	system and absolute position detection	execute initial setup, after [OK] is
	and then initialize the parameters.	method of axis.	clicked.
		M6 series Initial Setup - On base system	
	The axis name is not set for $\sim$ PLC axis	screen part system number and PI C axis	Set PLC axis name, and execute
M6 Initial Setup	Set it and then initialize the parameters	are set and clicked [Finish] without setting	initial setup, after [OK] is clicked
		PI C avis name	
			Set absolute position detection
	The axis amount is not set for PLC axis	M6 series Initial Setup - On base System	method of part system axis and
M6 Initial Setup	Set it and then initialize the peremeters	screen, clicked [Finish] without setting PLC	execute initial actual after [OK] in
	Set it and then initialize the parameters.	axis number.	
	An the initial setup data will be	M6 series Initial Setup - Clicked [Cancel] on	To some stallala D/s -1 (for stallala D) -1
Mb Initial Setup	invalidated if you select [Cancel]. Are	base system screen.	TO CANCELCICK [Yes], If NOT CIICK [NO].
	you sure you want to cancel?		
	G code is not set for $\sim$ system. Set it	M6 series Initial setup - On base System	Set G code of part system axis and
M6 Initial Setup	and then initialize the parameters	screen, G codes of related setting are not	execute initial setup, after [OK] is
	and then initialize the parameters.	set.	clicked.
	The axis name is not set for $\sim$ axis of $\sim$	M6 series Initial Setup - On base system	Set axis name of part system axis
M6 Initial Setup	system. Set it and then initialize the	screen, set axis number to " $\sim$ " and set	and execute initial setup, after [OK]
	parameters.	system number, then clicked [Finish].	is clicked.
	The axis amount is not set for 1st	M6 series Initial Setup - On base system	Set axis number of part system 1
M6 Initial Setup	system. Set it and then initialize the	screen, do not set axis number and set	and execute initial setup, after [OK]
·	parameters.	system number, then clicked [Finish].	is clicked.
	The axis amount is not set for 2nd	M6 series Initial Setup - On base system	Set axis number of part system 2
M6 Initial Setup	system. Set it and then initialize the	screen do not set axis number and set	and execute initial setup after [OK]
ine initial coup	parameters	system number, then clicked [Finish]	is clicked
		M6 series Initial Setun - On base system	
M6 Initial Setun	The system amount is not set. Set it and	screen clicked [Finish] without setting	Set part system and execute initial
	then initialize the parameters.	nothing	setup, after [OK] is clicked.
	The encoified name already evicts at a	M6 acrica Initial Satur Sat loverlanned avia	Sat other axis name, after IOK1 is
M6 Initial Setup	The specified flame already exists at the	no series initial Setup - Set lovenapped axis	
	axis of ~ system. Specify another name.	name on base system screen.	
	The encoder gear ratio is not set for $\sim$	M6 series Initial Setup - On spindle screen,	Set encoder gear ratio of part
M6 Initial Setup	spindle. Set it and then initialize the	clicked [Finish] without setting encoder gear	system spindle and execute initial
	parameters.	ratio of axis.	setup, after [OK] is clicked.
	The minimum rotation speed is not set	M6 series Initial Setup - On spindle screen,	Set minimum rotation speed of part
M6 Initial Setup	for $\sim$ spindle. Set it and then initialize	clicked [Finish] without setting minimum	system spindle and execute initial
	the parameters.	rotation speed of axis.	setup, after [OK] is clicked.
	The spindle encoder is not set for $\sim$	M6 series Initial Setun - On spindle screen	
M6 Initial Setup	•		Set spindle encoder connection and
	spindle. Set it and then initialize the	clicked [Finish] without setting spindle	Set spindle encoder connection and execute initial setup, after [OK] is
	spindle. Set it and then initialize the parameters.	clicked [Finish] without setting spindle encoder connection.	Set spindle encoder connection and execute initial setup, after [OK] is clicked.
	spindle. Set it and then initialize the parameters. The spindle drive unit type is not set for	clicked [Finish] without setting spindle encoder connection. M6 series Initial Setup - On spindle screen.	Set spindle encoder connection and execute initial setup, after [OK] is clicked. Set spindle drive unit name of part
M6 Initial Setup	spindle. Set it and then initialize the parameters. The spindle drive unit type is not set for spindle. Set it and then initialize the	clicked [Finish] without setting spindle screen, encoder connection. M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle drive	Set spindle encoder connection and execute initial setup, after [OK] is clicked. Set spindle drive unit name of part system spindle and execute initial
M6 Initial Setup	spindle. Set it and then initialize the parameters. The spindle drive unit type is not set for ~ spindle. Set it and then initialize the parameters	clicked [Finish] without setting spindle screen, encoder connection. M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle drive unit name	Set spindle encoder connection and execute initial setup, after [OK] is clicked. Set spindle drive unit name of part system spindle and execute initial setup, after [OK] is clicked
M6 Initial Setup	spindle. Set it and then initialize the parameters. The spindle drive unit type is not set for ~ spindle. Set it and then initialize the parameters.	clicked [Finish] without setting spindle screen, encoder connection. M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle drive unit name.	Set spindle encoder connection and execute initial setup, after [OK] is clicked. Set spindle drive unit name of part system spindle and execute initial setup, after [OK] is clicked.
M6 Initial Setup	spindle. Set it and then initialize the parameters. The spindle drive unit type is not set for ~ spindle. Set it and then initialize the parameters. The spindle connection is not set for ~	clicked [Finish] without setting spindle screen, encoder connection. M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle drive unit name. M6 series Initial Setup - On spindle screen, elisked [Finish] without setting spindle	Set spindle encoder connection and execute initial setup, after [OK] is clicked. Set spindle drive unit name of part system spindle and execute initial setup, after [OK] is clicked. Set spindle connecting type of
M6 Initial Setup M6 Initial Setup	spindle. Set it and then initialize the parameters. The spindle drive unit type is not set for $\sim$ spindle. Set it and then initialize the parameters. The spindle connection is not set for $\sim$ spindle. Set it and then initialize the	clicked [Finish] without setting spindle screen, encoder connection. M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle drive unit name. M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle	Set spindle encoder connection and execute initial setup, after [OK] is clicked. Set spindle drive unit name of part system spindle and execute initial setup, after [OK] is clicked. Set spindle connecting type of spindle and execute initial setup, free forth is whether
M6 Initial Setup M6 Initial Setup	spindle. Set it and then initialize the parameters. The spindle drive unit type is not set for ~ spindle. Set it and then initialize the parameters. The spindle connection is not set for ~ spindle. Set it and then initialize the parameters.	<ul> <li>Initial Sector of Spindle Sector,</li> <li>clicked [Finish] without setting spindle</li> <li>encoder connection.</li> <li>M6 series Initial Setup - On spindle screen,</li> <li>clicked [Finish] without setting spindle drive</li> <li>unit name.</li> <li>M6 series Initial Setup - On spindle screen,</li> <li>clicked [Finish] without setting spindle</li> <li>connection type.</li> </ul>	Set spindle encoder connection and execute initial setup, after [OK] is clicked. Set spindle drive unit name of part system spindle and execute initial setup, after [OK] is clicked. Set spindle connecting type of spindle and execute initial setup, after [OK] is clicked.
M6 Initial Setup M6 Initial Setup	spindle. Set it and then initialize the parameters. The spindle drive unit type is not set for ~ spindle. Set it and then initialize the parameters. The spindle connection is not set for ~ spindle. Set it and then initialize the parameters. The number of spindles is not set. Set it	<ul> <li>Initial Sector of Spindle Sector, clicked [Finish] without setting spindle encoder connection.</li> <li>M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle drive unit name.</li> <li>M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle connection type.</li> <li>M6 series Initial Setup - On spindle screen, M6 series Initial Setup - Setup -</li></ul>	Set spindle encoder connection and execute initial setup, after [OK] is clicked. Set spindle drive unit name of part system spindle and execute initial setup, after [OK] is clicked. Set spindle connecting type of spindle and execute initial setup, after [OK] is clicked. Set spindle number and execute
M6 Initial Setup M6 Initial Setup M6 Initial Setup	spindle. Set it and then initialize the parameters. The spindle drive unit type is not set for ~ spindle. Set it and then initialize the parameters. The spindle connection is not set for ~ spindle. Set it and then initialize the parameters. The number of spindles is not set. Set it and then initialize the parameters	<ul> <li>Initial Sector of Spindle Sector, clicked [Finish] without setting spindle encoder connection.</li> <li>M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle drive unit name.</li> <li>M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle connection type.</li> <li>M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle</li> </ul>	Set spindle encoder connection and execute initial setup, after [OK] is clicked. Set spindle drive unit name of part system spindle and execute initial setup, after [OK] is clicked. Set spindle connecting type of spindle and execute initial setup, after [OK] is clicked. Set spindle number and execute initial setup. after [OK] is clicked
M6 Initial Setup M6 Initial Setup M6 Initial Setup	spindle. Set it and then initialize the parameters. The spindle drive unit type is not set for ~ spindle. Set it and then initialize the parameters. The spindle connection is not set for ~ spindle. Set it and then initialize the parameters. The number of spindles is not set. Set it and then initialize the parameters.	<ul> <li>Initial Sector of Spindle Sector, clicked [Finish] without setting spindle screen, clicked [Finish] without setting spindle screen, clicked [Finish] without setting spindle screen, clicked [Finish] without setting spindle connection type.</li> <li>M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle connection type.</li> <li>M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle screen]</li> </ul>	Set spindle encoder connection and execute initial setup, after [OK] is clicked. Set spindle drive unit name of part system spindle and execute initial setup, after [OK] is clicked. Set spindle connecting type of spindle and execute initial setup, after [OK] is clicked. Set spindle number and execute initial setup, after [OK] is clicked.
M6 Initial Setup M6 Initial Setup M6 Initial Setup	spindle. Set it and then initialize the parameters. The spindle drive unit type is not set for ~ spindle. Set it and then initialize the parameters. The spindle connection is not set for ~ spindle. Set it and then initialize the parameters. The number of spindles is not set. Set it and then initialize the parameters. Initial setup data will replace the current	<ul> <li>Initial Sector of Spindle Sector, clicked [Finish] without setting spindle screen, clicked [Finish] without setting spindle screen, clicked [Finish] without setting spindle drive unit name.</li> <li>M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle connection type.</li> <li>M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle number.</li> <li>On M6 series initial setup, set initial setup</li> </ul>	Set spindle encoder connection and execute initial setup, after [OK] is clicked. Set spindle drive unit name of part system spindle and execute initial setup, after [OK] is clicked. Set spindle connecting type of spindle and execute initial setup, after [OK] is clicked. Set spindle number and execute initial setup, after [OK] is clicked. To switch click [Yes] if not click [No]
M6 Initial Setup M6 Initial Setup M6 Initial Setup M6 Initial Setup	<ul> <li>spindle. Set it and then initialize the parameters.</li> <li>The spindle drive unit type is not set for ~ spindle. Set it and then initialize the parameters.</li> <li>The spindle connection is not set for ~ spindle. Set it and then initialize the parameters.</li> <li>The number of spindles is not set. Set it and then initialize the parameters.</li> <li>Initial setup data will replace the current parameter settings, continue?</li> </ul>	<ul> <li>Initial Setup - On spindle screen, clicked [Finish] without setting spindle screen, clicked [Finish] without setting spindle drive unit name.</li> <li>M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle connection type.</li> <li>M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle number.</li> <li>On M6 series initial setup, set initial setup and clicked [Finish].</li> </ul>	Set spindle encoder connection and execute initial setup, after [OK] is clicked. Set spindle drive unit name of part system spindle and execute initial setup, after [OK] is clicked. Set spindle connecting type of spindle and execute initial setup, after [OK] is clicked. Set spindle number and execute initial setup, after [OK] is clicked. To switch click [Yes], if not click [No].
M6 Initial Setup M6 Initial Setup M6 Initial Setup M6 Initial Setup	spindle. Set it and then initialize the parameters. The spindle drive unit type is not set for ~ spindle. Set it and then initialize the parameters. The spindle connection is not set for ~ spindle. Set it and then initialize the parameters. The number of spindles is not set. Set it and then initialize the parameters. Initial setup data will replace the current parameter settings, continue?	clicked [Finish] without setting spindle screen, clicked [Finish] without setting spindle screen, clicked [Finish] without setting spindle drive unit name. M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle connection type. M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle number. On M6 series initial setup, set initial setup and clicked [Finish]. On System/Axis selection without selecting	Set spindle encoder connection and execute initial setup, after [OK] is clicked. Set spindle drive unit name of part system spindle and execute initial setup, after [OK] is clicked. Set spindle connecting type of spindle and execute initial setup, after [OK] is clicked. Set spindle number and execute initial setup, after [OK] is clicked. To switch click [Yes], if not click [No].
M6 Initial Setup M6 Initial Setup M6 Initial Setup M6 Initial Setup	<ul> <li>spindle. Set it and then initialize the parameters.</li> <li>The spindle drive unit type is not set for ~ spindle. Set it and then initialize the parameters.</li> <li>The spindle connection is not set for ~ spindle. Set it and then initialize the parameters.</li> <li>The number of spindles is not set. Set it and then initialize the parameters.</li> <li>Initial setup data will replace the current parameter settings, continue?</li> <li>None of Servo axis selection has been</li> </ul>	<ul> <li>Initial Setup - On Spindle Sereen, clicked [Finish] without setting spindle screen, clicked [Finish] without setting spindle drive unit name.</li> <li>M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle connection type.</li> <li>M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle connection type.</li> <li>M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle number.</li> <li>On M6 series initial setup, set initial setup and clicked [Finish].</li> <li>On System/Axis selection without selecting servo axis, on print screen selected</li> </ul>	Set spindle encoder connection and execute initial setup, after [OK] is clicked. Set spindle drive unit name of part system spindle and execute initial setup, after [OK] is clicked. Set spindle connecting type of spindle and execute initial setup, after [OK] is clicked. Set spindle number and execute initial setup, after [OK] is clicked. To switch click [Yes], if not click [No]. Select servo axis on System/Axis
M6 Initial Setup M6 Initial Setup M6 Initial Setup M6 Initial Setup Print	<ul> <li>spindle. Set it and then initialize the parameters.</li> <li>The spindle drive unit type is not set for ~ spindle. Set it and then initialize the parameters.</li> <li>The spindle connection is not set for ~ spindle. Set it and then initialize the parameters.</li> <li>The number of spindles is not set. Set it and then initialize the parameters.</li> <li>Initial setup data will replace the current parameter settings, continue?</li> <li>None of Servo axis selection has been checked in the System/axis selection.</li> </ul>	clicked [Finish] without setting spindle screen, M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle drive unit name. M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle connection type. M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle number. On M6 series initial setup, set initial setup and clicked [Finish]. On System/Axis selection without selecting servo axis, on print screen selected parameter of servo axis, and clicked [Priview]	Set spindle encoder connection and execute initial setup, after [OK] is clicked. Set spindle drive unit name of part system spindle and execute initial setup, after [OK] is clicked. Set spindle connecting type of spindle and execute initial setup, after [OK] is clicked. Set spindle number and execute initial setup, after [OK] is clicked. To switch click [Yes], if not click [No]. Select servo axis on System/Axis selection, after [OK] is clicked.
M6 Initial Setup M6 Initial Setup M6 Initial Setup M6 Initial Setup Print	<ul> <li>spindle. Set it and then initialize the parameters.</li> <li>The spindle drive unit type is not set for ~ spindle. Set it and then initialize the parameters.</li> <li>The spindle connection is not set for ~ spindle. Set it and then initialize the parameters.</li> <li>The number of spindles is not set. Set it and then initialize the parameters.</li> <li>Initial setup data will replace the current parameter settings, continue?</li> <li>None of Servo axis selection has been checked in the System/axis selection.</li> </ul>	clicked [Finish] without setting spindle screen, M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle drive unit name. M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle connection type. M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle number. On M6 series initial setup, set initial setup and clicked [Finish]. On System/Axis selection without selecting servo axis, on print screen selected parameter of servo axis, and clicked [Priview] or [Print].	Set spindle encoder connection and execute initial setup, after [OK] is clicked. Set spindle drive unit name of part system spindle and execute initial setup, after [OK] is clicked. Set spindle connecting type of spindle and execute initial setup, after [OK] is clicked. Set spindle number and execute initial setup, after [OK] is clicked. To switch click [Yes], if not click [No]. Select servo axis on System/Axis selection, after [OK] is clicked.
M6 Initial Setup M6 Initial Setup M6 Initial Setup M6 Initial Setup Print	spindle. Set it and then initialize the parameters. The spindle drive unit type is not set for ~ spindle. Set it and then initialize the parameters. The spindle connection is not set for ~ spindle. Set it and then initialize the parameters. The number of spindles is not set. Set it and then initialize the parameters. Initial setup data will replace the current parameter settings, continue? None of Servo axis selection has been checked in the System/axis selection.	clicked [Finish] without setting spindle screen, clicked [Finish] without setting spindle screen, clicked [Finish] without setting spindle drive unit name. M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle connection type. M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle number. On M6 series initial setup, set initial setup and clicked [Finish]. On System/Axis selection without selecting servo axis, on print screen selected parameter of servo axis, and clicked [Priview] or [Print].	Set spindle encoder connection and execute initial setup, after [OK] is clicked. Set spindle drive unit name of part system spindle and execute initial setup, after [OK] is clicked. Set spindle connecting type of spindle and execute initial setup, after [OK] is clicked. Set spindle number and execute initial setup, after [OK] is clicked. To switch click [Yes], if not click [No]. Select servo axis on System/Axis selection, after [OK] is clicked. Set System/Axis selection of servo
M6 Initial Setup M6 Initial Setup M6 Initial Setup M6 Initial Setup Print	spindle. Set it and then initialize the parameters. The spindle drive unit type is not set for ~ spindle. Set it and then initialize the parameters. The spindle connection is not set for ~ spindle. Set it and then initialize the parameters. The number of spindles is not set. Set it and then initialize the parameters. Initial setup data will replace the current parameter settings, continue? None of Servo axis selection has been checked in the System/axis selection.	clicked [Finish] without setting spindle screen, clicked [Finish] without setting spindle screen, clicked [Finish] without setting spindle drive unit name. M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle connection type. M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle number. On M6 series initial setup, set initial setup and clicked [Finish]. On System/Axis selection without selecting servo axis, on print screen selected parameter of servo axis, and clicked [Priview] or [Print].	Set spindle encoder connection and execute initial setup, after [OK] is clicked. Set spindle drive unit name of part system spindle and execute initial setup, after [OK] is clicked. Set spindle connecting type of spindle and execute initial setup, after [OK] is clicked. Set spindle number and execute initial setup, after [OK] is clicked. To switch click [Yes], if not click [No]. Select servo axis on System/Axis selection, after [OK] is clicked. Set System/Axis selection of servo axis and execute initial setup. after
M6 Initial Setup M6 Initial Setup M6 Initial Setup M6 Initial Setup Print	spindle. Set it and then initialize the parameters. The spindle drive unit type is not set for ~ spindle. Set it and then initialize the parameters. The spindle connection is not set for ~ spindle. Set it and then initialize the parameters. The number of spindles is not set. Set it and then initialize the parameters. Initial setup data will replace the current parameter settings, continue? None of Servo axis selection has been checked in the System/axis selection.	<ul> <li>Initial Section String Section, Section, Section, Section Section, Section Section, M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle drive unit name.</li> <li>M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle connection type.</li> <li>M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle screen, clicked [Finish] without setting spindle screen, clicked [Finish] without setting spindle number.</li> <li>On M6 series initial setup, set initial setup and clicked [Finish].</li> <li>On System/Axis selection without selecting servo axis, on print screen selected parameter of servo axis, and clicked [Priview] or [Print].</li> <li>Non of the check boxes are selected on System/Axis Selection screen.</li> </ul>	Set spindle encoder connection and execute initial setup, after [OK] is clicked. Set spindle drive unit name of part system spindle and execute initial setup, after [OK] is clicked. Set spindle connecting type of spindle and execute initial setup, after [OK] is clicked. Set spindle number and execute initial setup, after [OK] is clicked. To switch click [Yes], if not click [No]. Select servo axis on System/Axis selection, after [OK] is clicked. Set System/Axis selection of servo axis and execute initial setup, after [OK] is clicked.
M6 Initial Setup M6 Initial Setup M6 Initial Setup M6 Initial Setup Print	spindle. Set it and then initialize the parameters. The spindle drive unit type is not set for ~ spindle. Set it and then initialize the parameters. The spindle connection is not set for ~ spindle. Set it and then initialize the parameters. The number of spindles is not set. Set it and then initialize the parameters. Initial setup data will replace the current parameter settings, continue? None of Servo axis selection has been checked in the System/axis selection.	<ul> <li>Initial Section Similal Section of Spinlar Section, clicked [Finish] without setting spindle screen, clicked [Finish] without setting spindle drive unit name.</li> <li>M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle connection type.</li> <li>M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle connection type.</li> <li>M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle number.</li> <li>On M6 series initial setup, set initial setup and clicked [Finish].</li> <li>On System/Axis selection without selecting servo axis, on print screen selected parameter of servo axis, and clicked [Priview] or [Print].</li> <li>Non of the check boxes are selected on System/Axis selection screen.</li> <li>On System/Axis selection without selecting</li> </ul>	Set spindle encoder connection and execute initial setup, after [OK] is clicked. Set spindle drive unit name of part system spindle and execute initial setup, after [OK] is clicked. Set spindle connecting type of spindle and execute initial setup, after [OK] is clicked. Set spindle number and execute initial setup, after [OK] is clicked. To switch click [Yes], if not click [No]. Select servo axis on System/Axis selection, after [OK] is clicked. Set System/Axis selection of servo axis and execute initial setup, after [OK] is clicked. Select system on System/Axis
M6 Initial Setup M6 Initial Setup M6 Initial Setup M6 Initial Setup Print Print	<ul> <li>spindle. Set it and then initialize the parameters.</li> <li>The spindle drive unit type is not set for ~ spindle. Set it and then initialize the parameters.</li> <li>The spindle connection is not set for ~ spindle. Set it and then initialize the parameters.</li> <li>The number of spindles is not set. Set it and then initialize the parameters.</li> <li>Initial setup data will replace the current parameter settings, continue?</li> <li>None of Servo axis selection has been checked in the System/axis selection.</li> <li>Please set the range of system or axis.</li> <li>None of system selection has been</li> </ul>	<ul> <li>Initial Section Similal Section of Spinlar Section, clicked [Finish] without setting spinlar section.</li> <li>M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle drive unit name.</li> <li>M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle connection type.</li> <li>M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle connection type.</li> <li>M6 series Initial Setup - On spindle screen, clicked [Finish] without setting spindle number.</li> <li>On M6 series initial setup, set initial setup and clicked [Finish].</li> <li>On System/Axis selection without selecting servo axis, on print screen selected parameter of servo axis, and clicked [Priview] or [Print].</li> <li>Non of the check boxes are selected on System/Axis selection screen.</li> <li>On System/Axis selection without selecting system, on print screen selected parameter</li> </ul>	Set spindle encoder connection and execute initial setup, after [OK] is clicked. Set spindle drive unit name of part system spindle and execute initial setup, after [OK] is clicked. Set spindle connecting type of spindle and execute initial setup, after [OK] is clicked. Set spindle number and execute initial setup, after [OK] is clicked. To switch click [Yes], if not click [No]. Select servo axis on System/Axis selection, after [OK] is clicked. Set System/Axis selection of servo axis and execute initial setup, after [OK] is clicked. Select system on System/Axis Select os system on System/Axis

Eunction	Mossago	Dotail	Bomody
Function	(None of system selection has been	Detail	Reffieuy
	checked in the System/axis selection		
	None of Serve axis selection has been	On print screen select system, axis or	
	checked in the System/axis selection	BaseCom param without selecting system	
	None of spindle selection has been	or axis on System/Axis selection, and clicked	To print only selected part click
Print	checked in the System/axis selection	[Priview] or [Print]	[Yes] to cancel click [No]
	None of PLC index axis selection has	Message inside of () changes by selected	
	been checked in the System/axis	contents	
	selection )	contente:	
	Continue to print the other parameters?		
		On System/Axis selection without selecting	Select spindle on System/Axis
Print	None of spindle selection has been	spindle, on print screen selected parameter	selection screen, after [OK] is
	checked in the System/axis selection.	of spindle, and clicked [Priview] or [Print].	clicked.
	None of PLC index axis selection has	Selected PLC axis param to print for C70,	Select PLC axis on System/Axis
Print	been checked in the System/axis	although no PLC axis is specified on the	selection screen, after [OK] is
	selection.	System/Axis selection screen.	clicked.
	PLC index parameter is not exist.		
	1.Please set the PLC axis to be	Selected PLC Index param and executed	Sot PLC axis or PLC Index param
Print	valid(#1001,#1002).	print for C70, although there is no PLC axis or	after [OK] is clicked
	2.Please set the PLC index axis to be	PLC Index param setting.	
	valid(#12800).		
	Failed to print the data!		Load system configuration
Print	No system configuration data exist,	There is no system configuration information	infromation by NC or import. after
	please read or import system	when [Preview] or [Print] is clicked.	IOKI is clicked.
	configuration data .		
Import/Export	Failed to import $\sim$ .	Format of importing NC data file is different.	Check import file (" $\sim$ " part), after
. · · ·		1 3 -	[OK] is clicked.
	Data importing failed. The format of the		
Import/Export	parameter file is incorrect.	I ne file attempted to import is not a	Check import file, after [OK] is
	1.Please check if the file is parameter	parameter file.	сискеа.
	Tile.		Charlets and if theme is a memory star
Import/Export	Data importing failed. Could not find the	Parameter displayed by error message is not	thet diaplays array massage on
impon/Expon	parameter $\# \sim$ .Please check the	inclued in parameter file.	import file, after IOK is aliaked
	parameter file.		
	Data Importing failed. The value of	Oct weight of weight other that is disculated by	Check parameter set point displayed
Import/Export	parameter # $\sim$ is incorrect. Please	Set point of parameter that is displayed by	by error massage on import file, after
	check the value of parameter $\# \sim$ in the	error massage is out of range.	[OK] is clicked.
	NC machine.	There is inconsistency of the related actting	
	Data importing failed The setting value	between "#1007 System type select" and	Check set point of import file "#1007
Import/Export	of the #1007 do not match #1037	"#1037 cmdtyp" in the parameter file to	System type select" and "#1037
		import (for M70 and M70V)	cmdtyp", after [OK] is clicked.
	Data importing failed The NC type which		
Import/Export	is importing parameter file is different	Contents of impoort file and series selected	Reexecute import and select correct
import Export	from the one you chose.	on importing screen differs.	series, after [OK] is clicked.
	Data importing failed. The system type		
Import/Export	(#1037) which is importing parameter	Contents of impoort file and system type	Reexecute import and select correct
1 1	file is different from the one you chose.	selected on importing screen differs.	system type, after [OK] is clicked.
	Data importing failed. The NC type which	The NC model selected in the file to be	Check series of import object and
Import/Export	is importing parameter file is different	imported is different from that of the import	reexecute import after [OK] is
	from the one in the project.	target project.	clicked.
	Data importing failed. The system type		Check system type of import object
Import/Export	(#1037) which is importing parameter	The system type of the file to be imported is	and reevecute import after [OK] is
	file is different from the one in the	different from that of the import target project.	clicked
	project.		
	Machining program importing failed	Clicked the [+] button for a machining	
Import/Export	1 Check if the length of the machining	program on the Import machining program or	Check file name, after [OK] is
	program name is correct.	Project management screen, while the file	clicked.
		has more than 32 letters.	
	A machining program may already exist	Attempted to import machining program that	I o import and replace with existing
Import/Export	in the project, replace it?	is same name as the machining program in	machining program click [Yes], not
		the project.	to import click [NO].
		I nere is inconsistency with the parameter file	Chaolanoromator file offer (Old is
Import/Export	Parameter importing failed.	IN the imported, or there is a difference in the	Check parameter file, after [OK] Is
•	-	no model of system type between the	
		parameter me to be imported and the project. Imported 2 or more parameter file to NC	
Import/Export	Could not open multiple files at once.	Configurator2.	To cancel import click [OK].

Eurotion	Maaaaaa	Detail	Remody			
Function	Wessage	Detall	Remedy			
	Data Importing failed. Please make sure					
	that the file to import meets the	Attempted to import any file except for the				
Import/Export	following.	following: PRM. TLF. OFS. VAR. PRG.	Check importing NC data file, after			
1 1	When the file to import is an NC data file,	TXT INF	[OK] is clicked.			
	the extension must be *.PRM, *.TLF,					
	*.OFS, *.VAR, *.PRG, *.TXT or *.INF.					
	Data importing failed.Please make sure					
	that the file to import meets the					
	following.	Opened any file except for the following using				
luce a set/E sup a set	1. When the file is a project file, the	D&D: project file, .PRM, .nc2, .ncp, .cpg, NC	Check importing NC data file, after			
Import/Export	extension must be *.nc2, *.ncp or *.cpg.	data file, .PRM, .TLF, .OFS, .VAR, .PRG,	[OK] is clicked.			
	2. When the file is an NC data file, the	.TXT, .INF				
	extension must be *.PRM, *.TLF, *.OFS,					
	*.VAR, *.PRG, *.TXT or *.INF.					
	Data importing failed Please make sure					
	that the file to import meets the					
	following					
	1 When the file is a project file, the	Opened any file except for the following using	Check importing NC data file after			
Import/Export	extension must be * nc2 * ncn or * cng	D&D: project file, .PRM, .nc2, .ncp, .cpg, NC	IOK1 is clicked			
	2 When the file is an NC data file, the	data file, .PRM,.OFS,.VAR,.PRG,.TXT (C70)				
Import/Export Import/Export Import/Export Import/Export Import/Export Import/Export Import/Export	extension must be * PRM * OFS					
	* VAR * PRC or * TYT					
	Data importing failed Please make sure					
	that the file to import mosts the					
	following	Attempted to import any file execut for the				
	ioliowing.		Check importing NC data file, after			
Import/Export	when the file to import is an NC data file,	TOHOWING: PRIVI, BIN, TLF, UFS, VAR, PRG,	[OK] is clicked.			
	the extension must be ^.PRM, ^.BIN,	.1X1,.INF,.DA1 (M8V/M8/E80)				
Import/Export	^.1LF, ^.OFS, ^.VAR, ^.PRG, ^.1X1,					
	*.INF or *.DAT.					
	Data importing failed.Please make sure					
	that the file to import meets the					
	following.	Opened any file except for the following using				
	1. When the file is a project file, the	D&D project file PRM nc2 ncp cpg NC	Check importing NC data file after			
Import/Export	extension must be *.nc2, *.ncp or *.cpg.	data file PRM BIN TIE OES VAR	IOK1 is clicked			
	2. When the file is an NC data file, the	$PRC_TYT_INF_DAT(M8)/(M8/F80)$				
	extension must be *.PRM, *.BIN, *.TLF,					
	*.OFS, *.VAR, *.PRG, *.TXT, *.INF or					
	*.DAT.					
	Data importing failed.Please make sure					
	that the file to import meets the	Attempted to import any file execut for the				
luce a set/E sup a set	following.		Check importing NC data file, after			
Import/Export Import/Export	When the file to import is an NC data file,	IOIIOWING: PRIVI,.UFS,.VAR,.PRG, .TXT	[OK] is clicked.			
	the extension must be *.PRM, *.OFS,	(C70)				
	*.VAR. *.PRG or *.TXT.					
	Data importing failed. Please make sure	NC data file .PRM,.TLF,.OFS,.VAR,.PRG,				
	that the file to import meets the	.TXT, INF, or .DAT (.DAT is only for M8V/M8/				
	following.	E80 series project or when there is no	Check importing NC data file, after			
Import/Export	When the file to import is an NC data file.	project) is 0 byte.	[OK] is clicked.			
FunctionIImport/ExportfrImport/ExportfrImport/Export1Import/Export1Import/Export1Import/ExportfrImport/Export </td <td>the extension must be * PRM, * OFS,</td> <td>Or the file format of the system configuration</td> <td></td>	the extension must be * PRM, * OFS,	Or the file format of the system configuration				
	* VAR. * PRG or * TXT.	(INF) is illegal.				
	M700/M700V parameter converts to	Imported a parameter of M700/M700V to the	Click [Yes] to convert to M800, or			
Import/Export	M800 parameter. Continue?	project of M800.	click [No] not to import.			
	M70/M70V parameter converts to M80	Imported a parameter of M70/M70V to the	Click [Yes] to convert to M80, or click			
Import/Export	parameter. Continue?	project of M80.	[No] not to import.			
	M700/M700V parameter converts to	Imported a parameter of M700/M700V to the	Click [Yes] to convert to M800V. or			
Import/Export	M800V parameter Continue?	project of M800V	click [No] not to import			
	M70/M70V parameter converts to M80V	Imported a parameter of M70/M70V to the	Click [Yes] to convert to M80V or			
Import/Export	parameter Continue?	project of M80V	click [No] not to import			
	M80V parameter converts to M80	Imported a parameter of M80V to the project	Click [Yes] to convert to M80, or click			
Import/Export	narameter Continue?	of M80	[No] not to import			
	M80 parameter converts to M80V	Imported a parameter of M80 to the project of	Click [Yes] to convert to M80V or			
Import/Export	narameter Continue?		click [No] not to import			
	M800V parameter convorte to M800	Imported a parameter of M800V/ to the	Click [No] to convert to M800 or			
Import/Export	narameter Continue?	project of M800	click [No] not to import			
	M800 parameter converte to M200V	project of Mood.	Click [Ves] to convert to MOON/			
Import/Export	parameter Continue?		click [No] not to import			

Function	Anessad	Detail	Remedy	
Tunction	Data importing failed. Please check as	Detail	Kennedy	
Import/Export	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 $\# \sim$ from [ $\sim$ ] to [ $\sim$ ] ?	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.	

		<b>D</b> _4_1	Domody		
Function	Message Machine side signal resolution is invalid	Detail On serve advanced settings, when [Einish] is	Kemeay		
Initialization Wizard	Please ensure that the signal resolution is invalid.	clicked value of machine side resolution is	resolution to be within the specified		
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	range. 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.	max. On Basic information screen when [Insert] is clicked the system value has reached the	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.	<ol> <li>I ne error occurs when any of the following conditions exist at the startup of NC Configurator2.</li> <li>When there are no database files in the installation folder</li> <li>When there are no setting files</li> <li>When the project file whose path contains a fullwidth character is double-clicked</li> </ol>	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	
Function         Message The alarm will be displayed when the current value of parameter #/ NC which has 5 systems or more Please make sure the axis devic assignment No. of each axis and axis device assignment No. (exc for all axes of parameter #1603.           nitialization         Number of control axes(NC axis- axis 4evice assignment No. (exc for all axes of parameter #1603.           nitialization         Number of control axes(NC axis- axis +Spindle) has exceeded the Please change the number of ax set spindle C axis.           nitialization         Are you sure to cancel the initiali ratio is invalid. Set the gear ratio separated by ":".           The setting value of Motor:Spind □ is invalid. Set the gear ratio va separated by ":".           Nizard         The setting value of Motor:Spind □ is invalid. Set the gear ratio va separated by ":".           Nizard         (*) A number (1 to 4) will be displ- □.           New Project         Can only open one M60 project.           New Project         Maximum number of NC projects Project Open           Failed to read the file. The possible causes are as follo [1] The file is corrupted. [2] The file type is different.           Tool         Delete all the ~ data in this project Pape Mode           Tape Mode         Machining program was specifie Specify a program and retry.           Tape Mode         The specified file is not a program filist.           Tape Mode         The specified file name, path nat format".nc2" is invalid.           Parameter Comparison <t< td=""><td>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)</td><td>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.</td><td>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.</td></t<>	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)	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	for all axes of parameter #1603. 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 $\sim$ 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 type, the number of system	(1) Any change has been made in the number of part systems, servo axes, or					
Parameter Comparison	or axis and other project conditions have been changed. Refresh these contents on param comparison. Please compare again after checking selected contents.	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.	<ul> <li>(1) After the comparison, the parameter type of the source project and target project was hidden due to parameter setting.</li> <li>(2) After the comparison, the target parameter was hidden on the parameter screen.</li> </ul>	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		
Tunction	NC type is different between the project	Detail	Kennedy		
Communication	and the NC. Update NC type information from NC? Yes: Update NC type information and write. No: Write directly	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].		
	Cancel: Not writing.				
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 $\# \sim$ is incorrect. Please check the value of parameter $\# \sim$ 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 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.         Tool comp. amount reading failed.       1. The tool compensation type of the project may do not match NC side.Please check the parameter #1037.       Corresponds to contents of 1 and 2 in error message.         ication       Tool comp. amount reading failed.       Corresponds to contents of 1 and 2 in error message.         ication       Side.Please check the parameter #1037.       Corresponds to contents of 1 and 2 in error message.         ication       Writing data now. End now?       Canceled writing during serial communication.         ication       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.         ication       The NC to communicate is unspecified.       On Read from NC to Write to NC screen, clicked read or write without setting communication settings.		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	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 er message.         1. The 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 message.         nunication       Writing data now. End now?       Canceled writing during serial communication.         nunication       No file selected. Select the file to write and try again.       Clicked [Send] without selecting a to on the Send text screen of Standar communication.         nunication       The NC to communicate is unspecified. Select a NC by communication setting now?       On Read from NC to Write to NC to correctly?         2. NC is connected to computer correctly?       Communication failed. Check the following items and then try again.       On Read from NC to Write to NC to communication settings.         1. The NC is running normally?       Communication test cor over 60 sec. after you clicked [Communication test cor over 60 sec. after you clicked [Communication settings]         nunication       Communication parameter are set to standard values?       The connection test with the select failed on the Communication setting over 60 sec. after you clicked [Communication setting]         nunication       Communication failed.       Please check if the IP address exists.         2. Please check if the communication corrected.(K1)		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	Mossago	Dotail	Remedy			
Function	wiessage	(1) The NC models selected by NC and NC	Remeay			
	Parameter reading failed because the	Configurator2 are different (possible to				
	NC type or system type of the parameter	communicate between M70 and M70V/F70				
	file is different from the one in the	or between M700 and M700V)	(1) Click [OK] and check the NC			
Communication	project.	(2) The system types selected by NC and NC	models and system types of NC and			
	But M70 and M70V/E70,M700 and	Configurator2 are different.	NC Configurator2.			
	M700V with the same system type can	In the case (1) or (2) as stated above, you				
	communicate.	clicked [Preview] or [Read] on the Read				
		screen.				
		(1) The NC models selected by NC and NC				
	Parameter writing failed because the NC	Configurator2 are different. (possible to				
	type or system type of the parameter file	communicate between M/0 and M/0V/E/0,				
Communication	is different from the one in the project.	or between M700 and M700V)	(1) Click [OK] and check the NC			
Communication	But M70 and M70V/E70,M700 and	(2) The system types selected by NC and NC	NC Configurator?			
	M700V with the same system type can	In the case (1) or (2) as stated above, you	NC Comgulatorz.			
	communicate.	clicked [Preview] or [Read] on the Read				
		screen.				
Communication	Communicating. Are you sure you want	Selected cancel during serial	To and click (OK) if not click [No]			
Communication	to exit?	communication.	TO END CIICK [UK], IF NOT CIICK [INO].			
Communication	Communicating End now?	Clicked [Communication test] and then [x] on	To end click [OK] if not click [No]			
Communication	Communicating. End now?	the Serial communication screen.				
	The same type data already exists in the					
	project, replace it?					
Communication	If the data file for reading or importing is	(1) Attempt to import parameter.	To keep inporting click [Yes], to			
Communication	a program file,		cancel click "No".			
Communication Communication Communication Communication	It will be added to the project but the	program.				
	won't be cleared					
		Although no parameter change has been				
0	The parameter has not changed. Not	made since the last parameter write (or				
Communication r Communication Communication	necessary to write again.	read), selected a parameter to write on the				
Communication		[Write to NC] screen.				
	Please select the parameter while	Did not select parameter when clicking	Press create a new project again			
Communication	reading the NC data.	[Create a new project].	after selecting parameter, after [OK]			
	<b>J</b>		is cliked.			
Communication	Please set the IP address.	IP adrees is not set when online.	Set communication setting again,			
	Parameter reading failed Please check					
	as follows:					
	1.The value of parameter #1001 or	Any of the NC parameter settings is				
Communication	#1002 is incorrect.	exceeding the specified range of the number	Check NC parameter setting value,			
Communication	2.The value of #1001 and #1002 do not	of part systems or axes. There is	after [OK] is clicked.			
	match.	inconsistency.				
	3.The sum of servo axes(NC axis and					
	PLC axis) is out of setting range.					
	Parameter reading failed.					
Communication	in esistem of which #1001=1, #1002=0	The system of which #1001=1, #1002=0	#1002=0 on NC and the value other			
Communication	Please read again after set #1002 on the	exists in M8 series.	than 0 to #1002 after [OK] is clicked			
	NC.					
	Can not communicate with the following					
	data in NC of which data protection key					
	is valid.					
	Please communicate again after change	Data protaction key is valid on NC				
	data protection key to invalid by	Data protection key is valid on NC.				
Communication	consulting the machine maker manual.	The display of (*1) differs depending on the	Check the data protection key state			
Communication	Parameter KEY2 (*1)	status of data protection key and	on NC, after [OK] is clicked.			
	Tool compensation KEY1 (*1)	communication target data				
	Lool life KEY1 (*1)					
	Common variable KEY2 (*1)					
	Drogrom					
	Can not read programs of					
Communication	No 8000~0000 from NC of which data is	Edit lock B is enabled (#8105-1) on NC	Check the edit lock B state on NC,			
Communication	in edit lock B		after [OK] is clicked.			
	Can not read programs of					
Communication	No.9000~9999 from NC of which data is	Edit lock C is enabled (#1121=1) on NC.	Check the edit lock C state on NC,			
	in edit lock C.		aner [UK] is clicked.			

Function         Message         Detail           Can not communicate with NC of which parameter lock is valid.         Parameter lock is valid on NC.         Parameter lock is valid on NC.           Communication         Please communicate again after unlock by consulting the machine maker manual.         The NC data communication is limiter setting user level-based data protection operation level is low.           Communication         Can not communicate with NC of which operation level is low.         The NC data communication is limiter setting user level-based data protection operation level is low.           Communication         Safety parameter writing failed. Use one of the following methods to cancel the parameter "#51013 SF_PSWD" has been set on the NC.         Safety parameter reading failed.           Communication         Please make sure that smart safety observation is enabled on the NC.         Smart safety observation is not enable the NC, or the parameter value is outs sis not renabled.           Communication         Parameter reading failed. The format of (C70)         The file to be read is not a parameter such aparameter is system number is different with project's.         The file to be read is not a parameter is not renabled.           Communication/ Import         Parameter reading failed. The format of trom project's.         The file to be read is not a parameter with project's.           Communication/ Import         Parameter reading failed. The format of trom project's.         The file to be read is not a parameter stath sa folows:           Communication/ I	Detail	Remedy			
Tunotion	Can not communicate with NC of which	Detail	Reincuy		
	parameter lock is valid.				
Communication	Please communicate again after unlock	Parameter lock is valid on NC.	Check the parameter lock state on		
	by consulting the machine maker		NC, after [OK] is clicked.		
	manual.				
		The NC data communication is limited by	Check the protection level on the		
Communication	Can not communicate with NC of which	setting user level-based data protection	protection setting screen of NC, after		
	operation level is low.	operation level on NC.	[OK] is clicked.		
	Safety parameter writing failed. Use one				
	of the following methods to cancel the				
	safety password.				
	1. Input the machine tool builder	Safaty parameter writing failed due to a	Check the password setting state for		
Communication	password when the parameter "#51013		the safety parameter on NC, after		
	SF_PSWD" has not been set on the NC.	salety password issue.	[OK] is clicked.		
	2. Input the safety password when the				
	parameter "#51013 SF_PSWD" has				
	been set on the NC.				
	Safety parameter reading failed.	Smart safety observation is not enabled on	Make sure that smart safety		
Communication	Please make sure that smart safety	the NC	observation is enabled on the NC,		
Function         Message         Detail           Can not communicate with NC of which parameter lock is valid.         Parameter lock is valid on NC. by consulting the machine maker manual.         Parameter lock is valid on NC.           Communication         Can not communicate with NC of which operation level is low.         The NC data communication is setting user level-based data properation level on NC.           Safety parameter writing failed. Use one of the following methods to cancel the safety password.         Safety parameter writing failed astery password when the parameter "#51013 SF_PSWD' has been set on the NC.           2. Input the safety password when the parameter #51013 SF_PSWD' has been set on the NC.         Safety parameter reading failed.           Communication         Please make sure that smart safety observation is enabled on the NC.         Smart safety observation is not the NC, or the parameter value setting range.           Communication         Parameter reading failed. The format of (C70)         The file to be read is not a para Communication/ Common variable's system number is is incorrect.         Smart safety observation is not enabled.           Communication/ Communication/ Communication/ System number of tool life is different import         Work offset life's system number is incorrect.           Communication/ Communication/ System number of tool life is different import         System number of work offset is from project's.           Communication/ System number of tool life is different inport         System number of work offset is from project's.      <			after [OK] is clicked.		
	Parameter writing ended abnormally		Make sure that the parameter value		
	because the parameter number setting	Smart safety observation is not enabled on	to be written is inside the setting		
Communication	is incorrect or smart safety observation	the NC, or the parameter value is outside the	range, or smart safety observation is		
	is not enabled	setting range.	enabled on the NC, after [OK] is		
			clicked.		
Communication	Parameter reading failed. The format of	The file to be read is not a parameter file.	Check the file to be read, after [OK]		
(C70)	the parameter file is incorrect.	Common unichtele ourtem number is	IS CIICKED.		
Communication/	different with prejectle	Common variable's system number is	Click [OK].		
Communication/	Work offset file's system number is	Work offset file's system number is different			
Import	different with project's	with project's	Click [OK].		
Communication/	System number of tool life is different	System number of tool life is different from			
Import	from project's.	project's.			
Communication/	System number of work offset is	System number of work offset is different	Click IOK1		
Import	different from project's.	from project's.			
	Cannot resume the value of parameter #				
	$\sim$ from antecedent.The reason may be				
	as follows:	Due to a change of the link parameter setting			
Modification	1.This parameter is not exist.	the parameter state has changed, and	Check state of object parameter		
Communication Communication Communication Communication Communication/ Import Communication/ Import Communication/ Import Communication/ Import Modification History Modification History Modification History	2.The axis No. of parameter or system	cannot be restored by double-clicking the	after IOK1 is clicked		
Thistory	No. which is resumed is not exist.	parameter modification history			
	3.This parameter can not be edited.	parameter mounication history.			
	(Correlative parameter wasn't set or the				
	password wasn't inputted.)				
Modification	Recover the value of parameter # $\sim$	An attempt was made to restore the target	To rootoro olick [Vool if not olick		
History	(System/Axis No.: $\sim / \sim$ ) from [ $\sim$ ] to	data state on the parameter modification			
Thistory	[ ~ ], continue?	history screen.	[10].		
Modification	Parameter modification history list will				
History	be cleared because system/axis number	Changed the value of #1001 and #1002.	Click [OK].		
Thistory	changed.				
	The value of parameter #parameter				
	number can not be resumed. The				
	reason may be as follows:				
	1.The parameter does not exist.				
Modification	2.The axis or system number of	The value of parameter number in	Click [OK]		
History	parameter which is resumed does not	modification history can not be resumed.			
	exist.				
	3.This parameter can not be edited.				
	(Correlative parameter wasn't set or the				
	password wasn't inputted.)				

# Appendix 4

**Setting Firewall Exceptions** 

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.

Allowed apps							-		
⇒ <b>*</b> ↑	🔗 « Windows Defe	nder Firewall > Allowed apps			ٽ ×		h Cont	rol Panel	
	Allow apps to o	ommunicate through Windo	ws Defer	nder Fire	ewall				
Allowed apps → * ↑	To add, change, or i	emove allowed apps and ports, click C	hange sett	ings.					
	What are the risks o	f allowing an app to communicate?				Cha <u>ng</u> e sett	ings	)	
									rel
	For your secur	ity, some settings are managed by you	ir system ad	dministrate	or.				
							_		el
	Allowed apps and	features:					_		
	Name		Domain	Private	Public	Group Policy	^		
	P. D. Marriella	water a state of a state of a		2		No	- Control Panel		
	R Distances	heating-lager staffer_13.208213_c64	✓			No		rol Panel	
	R Distant	Henaging, 4 7871 70247 J., etc., Box.,	✓	1	1	No			DI Panel
	# Different	Record Adda, 41, 16285, 10942, read-	$\checkmark$	<b>V</b>		No			
	Rennet	Access/All Apr. J. 10788 1024.2, read-	$\checkmark$	✓		No			
	E Distances	Access/Alidge_A1.16286.1034.2_read-	✓	✓		No			
	# Different	Acres \$2511 (\$258.14, april \$4, apri	✓			No			
	M D.M. mark	Acres 614 (811) 44 (200)				No			
	# Different	Access/644, 44 1010, 461, real-	✓			No			
	R Distances	Accessibility, M. 1990, MR.1, read-	✓	V		No			
	Rennet	Accessibility ALTERCARD, real-	<b>v</b>	✓		No			
	Rentwork	Accessible in 1992 ARL made	<b>V</b>	2		No	$\sim$		
					Detai <u>l</u> s	. Remov	È		
							-		
					A	low another app			
					OK	Cano	el		

(5) Click the [Browse] button.

Add an app	$\times$
Select the app you want to add, or click Browse to find one that is not listed, and then click OK.	
Apps:	
Path:	-
What are the risks of unblocking an app?	
You can choose which network types to add this app to.	
Network types Add Cance	1

(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.

Add an app	×
Select the app you want to add, or click Browse to find one that is not listed, and then click OK.	
Apps:	
MC Configurator2.exe	
Path: C:¥Program Files (x86)¥MFI SOFT¥NC Conf Browse	
What are the risks of unblocking an app?	
You can choose which network types to add this app to.	
Network types Add Cance	4

Appendix 4 Setting Firewall Exceptions

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


NC Configurator2 Instruction Manual Appendix 4 Setting Firewall Exceptions

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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.
		<ul> <li>Corresponded to E70 series</li> <li>Separated "4.12 Adjustment Function" to "4.12 Function Parameter" and "4.13 Adjustment function" then configured as below:</li> <li>4.12 Function parameter</li> <li>4.12.1 High-speed high-accuracy (M7 series)</li> <li>4.12.2 Machining condition selection I (M7 series)</li> <li>4.12.3 Soft limit (M7/E70 series,C70)</li> <li>4.12.4 Thread cutting (M7/E70 series)</li> <li>4.13 Adjustment Function</li> <li>4.13.1 Roundness (M60/M60S series)</li> <li>4.13.2 High-speed high-accuracy (M60/M60S series)</li> <li>4.13.3 Servo Adjustment (M60/M60S series)</li> <li>Added "Appendix 3 List of Error Messages".</li> <li>Mistakes were corrected.</li> </ul>
Jan. 2015	IB(NA)1501046-C	Corresponded to S/W version B0.
		<ul> <li>Corresponded to M800 series.</li> <li>Following sections were deleted.</li> <li>1.4 Connection Configuration</li> <li>3.1 Start NC Configurator2</li> <li>3.2 Operation Flow</li> <li>4.2 Machine Information Management</li> <li>4.6 Common Variable Data Management</li> <li>4.7 Workpiece Offset Data Management</li> <li>4.8 Machining Program Management</li> <li>4.9 System Configuration Management</li> <li>4.10 Project Management</li> <li>Subsequent sections were re-numbered due to the deletion.</li> <li>Added the description for the print of parameter modification history and the file output function to "4.2.5 Parameter Initial Setting After Create Project".</li> <li>Mistakes were corrected.</li> </ul>
Jun 2015	IB(NA)1501046-D	Corresponded to S/W version B1
		<ul> <li>Corresponded to M80 series.</li> <li>Added the NC data reading function of M8 series to "3.2.2 Menu Configuration" and "4.1.5 Importing NC Data".</li> <li>Following sections were deleted.</li> <li>4.3 Tool Life Data Management</li> <li>4.4 Tool Compensation Data Management</li> <li>Subsequent sections were re-numbered due to the deletion.</li> <li>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".</li> <li>Added M8 series to "4.6 Function Parameter".</li> <li>Mistakes were corrected.</li> </ul>
Sep. 2015	IB(NA)1501046-E	Corresponded to S/W version B2.
		<ul> <li>Corresponded to the import of tool life data for M80 series.</li> <li>Enabled the import of M8 tool life data in "1.2 Outline of Functions".</li> <li>Enabled the import of M8 tool life data and added all tool data in "4.1.5 Importing NC Data".</li> <li>Added the error messages related to the all tool data to "Appendix 3 List of Error Messages".</li> <li>Enabled the selection of whether or not to create a shortcut on the desktop in "2.2.1 First Time Installation Procedure".</li> <li>Enabled high-speed high-accuracy control and machining condition selection I for L system of M8 series.</li> </ul>

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.
		<ul> <li>Axis batch copy / paste functions were added.</li> <li>Operation method was added to "4.2.1 M8 Series, M7/E70 Series Parameters".</li> <li>Operation method and caution were added to "4.2.2 C70 Series Parameters".</li> <li>Corresponded to M80 L system 4 part systems.</li> <li>Number of part systems was changed in "4.2.1 M8 Series, M7/E70 Series</li> <li>Parameters".</li> <li>Corresponded to the switch of the parameter display on the machining condition selection I screen by enabling or disabling tolerance control.</li> <li>Description of the tolerance control parameter was added to "4.4.2 Machining</li> <li>Condition Selection I (M8/M7 series)".</li> <li>Descriptions related to the correspondence to Windows10 were added.</li> <li>Windows10 was added to "1.3 System Requirements".</li> <li>Descriptions of Windows10 were added to "2.2.1 First Time Installation Procedure".</li> <li>Descriptions of Windows10 were added to "2.2.1 Uninstall Procedure".</li> <li>Windows10 was added to the OS which the message is displayed at the time of starting in "Appendix 2.1 Restrictions".</li> <li>Restriction for not corresponding "Data protection by user's level" was deleted from "Appendix 2.1 Restrictions".</li> <li>Restrictions when changing the parameter "#1041 Initial inch" was added to "Appendix 2.1 Restrictions".</li> <li>Restriction when changing the parameter "#1041 Initial inch" was added to "Appendix 2.1 Restrictions".</li> <li>Restriction when writing to M800W with USB memory set as storage was added to "Appendix 2.1 Restrictions".</li> <li>Restriction when writing to M800W with USB memory set as storage was added to "Appendix 2.1 Restrictions".</li> <li>Restriction when writing to M800W with USB memory set as storage was added to "Appendix 2.1 Restrictions".</li> <li>Restriction when writing to M800W with USB memory set as storage was added to "Appendix 2.1 Restrictions".</li> <li>Restriction when writing to the parameter #1603 was added in Initial Setup Wizard. Error message related to the parameter lock was</li></ul>
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 to "4.2.7 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	<ul> <li>Corresponded to S/W version B5.</li> <li>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.</li> <li>Added to "Appendix 2.1 Restrictions" the models for which the program display at import is restricted.</li> <li>A restriction related to the font size for system requirements was changed in "Appendix 2.1 Restrictions".</li> <li>"Appendix 2.1 Restrictions".</li> <li>"Appendix 3 List of Error Messages"</li> <li>Operation messages related to Initialization Wizard were added and changed.</li> </ul>
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 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 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	<ul> <li>Corresponded to S/W version B9.</li> <li>Changed the descriptions in "Precautions for Safety".</li> <li>Corresponded to Windows 11.</li> <li>Added the descriptions on Windows 11 to "1.4 System Requirements".</li> <li>Changed the descriptions in "2.2.1 First Time Installation Procedure".</li> <li>Changed the descriptions in "2.3 Uninstall Procedure".</li> <li>Changed the title of "2.3.1 Uninstall from [Settings]" and the descriptions.</li> <li>Corresponded to M8 series version FA and M8V series version A6.</li> <li>Added the applicable versions of the system software version B9 to "1.3 Applicable</li> <li>Models and Versions".</li> <li>Corresponded to HK motors.</li> <li>Changed the descriptions on Windows 8.1 as the support ended.</li> <li>Deleted the descriptions on Windows 8.1 from "1.4 System Requirements".</li> <li>Deleted the descriptions on Windows 8.1 from "1.4 System Requirements".</li> <li>Deleted the descriptions on Windows 8.1 from "2.2.1 First Time Installation Procedure".</li> <li>Changed the title of "2.3.1 Uninstall from [Settings]" and deleted the descriptions on Windows 8.1.</li> <li>Added "1.3.3 Supported Drive Units/Motor types".</li> <li>Deleted Chinese (simplified) from the supported languages of the installer.</li> <li>Changed the screen in "2.2.1 First Time Installation Procedure".</li> <li>Revised the contents of END-USER SOFTWARE LICENSE AGREEMENT.</li> <li>Changed the screen in "4.1.1 Create a New Project (with Initial Setting)" and "4.6 Wizard Function".</li> <li>Added error messages for when ":" is not included in a gear ratio in the Initialization Wizard.</li> <li>Added messages to "Appendix 3.1 List of Error Messages".</li> <li>Changed the descriptions on when failed to initialize a project.</li> <li>Changed the restriction in "Appendix 2.1 Restrictions".</li> </ul>

## **Global Service Network**

## AMERICA

## MITSUBISHI ELECTRIC AUTOMATION INC. (AMERICA FA CENTER)

HQ and Central Region Service Center (Chicago) 500 CORPORATE WOODS PARKWAY, VERNON HILLS, ILLINOIS 60061, U.S.A TEL: +1-847-478-2500 / FAX: +1-847-478-2650

HEL: +1-547-478-2000/FAX: +1-547-Minneapolis, MN Service Satellite Detroit, MI Service Satellite Grand Rapids, MI Service Satellite Cleveland, OH Service Satellite St. Louis, MO Service Satellite Indianapolis, IN Service Satellite

South/East Region Service Center (Georgia) 1845 SATELLITE BOULEVARD STE. 450, DULUTH, GEORGIA 30097, U.S.A. TEL +1-678-258-4529 / FAX +1-678-258-4519 Charleston, SC Service Satellite Charlotte, NC Service Satellite Dallas, TX Service Satellite Houston, TX Service Satellite Hartford, CT Service Satellite Kanavidio TN Service Satellite

Hartford, CT Service Satellite Knoxville, TN Service Satellite Nashville, TN Service Satellite Huntsville, AL Satellite Tittsburg, PA Service Satellite Tampa, FL Service Satellite Miami, FL Satelite Lafayette, LA Service Satellite Allentown, PA Satelite

Western Region Service Center (California) 5900-B KATELLA AVE. - 5900-A KATELLA AVE. CYPRESS, CALIFORNIA 90630, U.S.A. TEL: +1-714-699-2625 / FAX: +1-847-748-2650 EL: +1-/14-699-2025 / FAX: + San Francisco, CA Satelite Seattle, WA Service Satellite Denver, CO Service Satellite

Canada Region Service Center (Toronto) 4299 14TH AVENUE MARKHAM, ONTARIO L3R OJ2, CANADA TEL: +1-905-475-7728 / FAX: +1-905-475-7935 Edmonton, AB Service Satellite Montreal, QC Service Satellite

Mexico Region Service Center (Queretaro) Parque Tecnológico Innovación Querétaro, Lateral Carretera Estatal 431, Km 2+200, Lote 91 Modulos 1 y 2 Hacienda la Machorra, CP 76246, El Marqués, Querétaro, México TEL: +52-442-153-6050

Monterrey, NL Service Satellite Mexico City, DF Service Satellite

#### BRAZIL

## MITSUBISHI ELECTRIC DO BRASIL COMÉRCIO E SERVIÇOS LTDA.

Votorantim Office AV. GISELE CONSTANTINO,1578, PARQUE BELA VISTA, VOTORANTIM-SP, BRAZIL CEP:18.110-650 TEL: +55-15-3023-9000

Blumenau, Santa Catarina Office

EUROPE

MITSUBISHI ELECTRIC EUROPE B.V.

European Service Headquarters (Dusseldorf, GERMANY) Mitsubishi-Electric-Platz 1 40882 RATINGEN, GERMANY TEL: +49-2102-486-5000 / FAX: +49-2102-486-5910

South Germany Service Center (Stuttgart) SCHELMENWASENSTRASSE 16-20, 70567 STUTTGART, GERMANY TEL: + 49-711-770598-123 / FAX: +49-711-770598-141

France Service Center (Paris) 2 RUE DE L'UNION, 92565 RUEIL-MALMAISON CEDEX, FRANCE TEL: +33-1-41-02-83-13 / FAX: +33-1-49-01-07-25

France Service Satellite (Lyon) 240, ALLEE JACQUES MONOD 69800 SAINT PRIEST FRANCE TEL: +33-1-41-02-83-13 / FAX: +33-1-49-01-07-25

# Italy Service Center (Milan) VIA ENERGY PARK 14, VIMERCATE 20871 (MB) ITALY TEL: +39-039-6053-342 / FAX: +39-039-6053-206

# Italy Service Satellite (Padova) VIA G. SAVELLI, 24 - 35129 PADOVA, ITALY TEL: +39-039-6053-342 / FAX: +39-039-6053-206

U.K. Service Center TRAVELLERS LANE, HATFIELD, HERTFORDSHIRE, AL10 8XB, U.K. TEL: +44-1707-288-780 / FAX: +44-1707-278-695

Spain Service Center CTRA. RUB1, 76-80 8174 SAINT CUGAT DEL VALLES, BARCELONA, SPAIN TEL: +34-935-65-2236 / FAX: +34-935-89-1579

Poland Service Center UL.KRAKOWSKA 50, 32-083 BALICE, POLAND TEL: +48-12-347-6500 / FAX: +48-12-630-4701

#### Hungary Service Center MITSUBISHI ELECTRIC EUROPE B.V. HUNGARIAN BRANCH BUDAÖRS OFFICE PARK. SZABADSÁG ÚT 117., 2040 BUDAÖRS, HUNGARY TEL: +36-70-433-2263

Turkey Service Center MITSÜBISHI ELECTRIC TURKEY ELEKTRİK ÜRÜNLERİ A.Ş SERIFALI MAHALLESI KALE SOKAK. NO.41 34775 UMRANIYE, ISTANBUL, TURKEY TEL: +90-216-969-2500 / FAX: +90-216-661-44-47

## Czech Republic Service Center MITSUBISHI ELECTRIC EUROPE B.V. PRAGUE OFFICE

Pekařská 621/7, 155 00 PRAHA 5, CZECH REPUBLIC TEL: +420-734-402-587

weden Service Center HAMMARBACKEN 14, P.O.BOX 750 SE-19127, SOLLENTUNA, SWEDEN TEL: +46-8-6251200 / FAX: +46-8-6251014

## Bulgaria Service Center

AKHATON Ltd. (Service Partner) 4 ANDREJ LJAPCHEV BLVD. POB 21, BG-1756 SOFIA, BULGARIA TEL: +359-2-8176009 / FAX: +359-2-9744061

## Ukraine Service Center (Kiev)

CSC Automation Ltd. (Service Partner) 4 B, YEVHENA SVERSTYUKA STR., 02002 KIEV, UKRAINE TEL: +380-44-494-3344 / FAX: +380-44-494-3366

## South Africa Service Center

Adroit Technologies (Service Partner) 20 WATERFORD OFFICE PARK, WATERFORD DRIVE, CNR OF WITKOPPEN ROAD, FOURWAYS JOHANNESBURG SOUTH AFRICA TEL: +27-11-658-8100 / FAX: +27-11-658-8101

### ASEAN

## MITSUBISHI ELECTRIC ASIA PTE. LTD. (ASEAN FA CENTER)

Singapore Service Center 307 ALEXANDRA ROAD MITSUBISHI ELECTRIC BUILDING SINGAPORE 159943 TEL: +65-6473-2308 / FAX: +65-6476-7439

## PHILIPPINES

## MELCO FACTORY AUTOMATION PHILIPPINES INC.

Head Office 128 LOPEZ RIZAL STREET, BRGY., HIGHWAY HILLS, MANDALUYONG CITY , MM PHILIPPINES 1550 TEL: +63-2-8256-8042 / FAX: +632-8637-2294

#### Philippines Service Center

KM.23 WEST SERVICE ROAD SSH, CUPANG ,MUNTINLUPA CITY, PHILIPPINES TEL: +63-2-8807-0420 / FAX: +63-2-8842-5202

## VIETNAM

## MITSUBISHI ELECTRIC VIETNAM CO., LTD.

Vietnam Ho Chi Minh Service Center 11TH & 12TH FLOOR, VIETTEL TOWER B, 285 CACH MANG THANG 8 STREET, WARD 12, DISTRICT 10, HO CHI MINH CITY, VIETTEL TOWA TEL: +84-28-3910-5945 / FAX: +84-28-3910-5947

Vietnam Hanoi Service Center 14TH FLOOR, CAPITAL TOWER, 109 TRAN HUNG DAO STREET, CUA NAM WARD, HOAN KIEM DISTRICT, HA NOI CITY, VIETNAM TEL: +84-24-3937-8075 / FAX: +84-24-3937-8076

#### INDONESIA

PT. MITSUBISHI ELECTRIC INDONESIA Indonesia Service Center (Cikarang) JL. KENARI RAYA BLOK G2-07A, DELTA SILICON 5, LIPPO CIKARANG - BEKASI 17550, INDONESIA TEL: +62-21-2961-7797 / FAX: +62-21-2961-7794

#### MALAYSIA

## MITSUBISHI ELECTRIC SALES MALAYSIA SDN. BHD.

Malaysia Service Center (Kuala Lumpur Service Center) LOT 11, JALAN 219, P.O BOX 1036, 46860 PETALING JAYA, SELANGOR DARUL EHSAN, MALAYSIA TEL: +60-3-7626-5032

Johor Bahru Service Center

9, Jalan Perjiranan 4/6, Bandar Dato Onn, 81100 Johor TEL: 07-3642250 / 2256

Pulau Pinang Service Center 25-G, Pusat Perniagaan Perdana Jaya, Jalan Permatang Rawa, 14000 Bukit Mertajam, Pulau Pinang TEL: +60-4-510-1838 / Fax: +60-4-510-1835

## THAILAND

INDIA

#### MITSUBISHI ELECTRIC FACTORY AUTOMATION (THAILAND) CO., LTD.

halland Service Center (Bangkok) 101, TRUE DIGITAL PARK OFFICE, 5TH FLOOR, SUKHUMVIT ROAD, BANGCHAK, PHRA KHANONG, BANGKOK, 10260 THAILAND TEL: +66-2-092-8600 / FAX: +66-2-043-1231-33

#### MITSUBISHI ELECTRIC INDIA PVT., LTD.

MITSUBISHI ELECTRIC INDIA PVT., LTD. Service Head office and South India Service Center (Bangalore) CNC eXPerience Park, PLOT NO. 57/A, PEENYA PHASE 3, PEENYA INDUSTRIAL AREA, BANGALORE 560058, KARNATAKA, INDIA TEL: +91-80-4655-2121 Chennai Service Satellite

Coimbatore Service Satellite

Hyderabad Service Satellite

Panthnagar Service Satellite Delhi Service Satellite Jamshedpur Service Satellite

Jamshedpur Service Sate Manesar Service Satellite

West India Service Center (Pune) ICC-Devi GAURAV TECHNOLOGY PARK, UNIT NO.402, FOURTH FLOOR, NORTH WING, SURVEY NUMBER 191-192 (P), NEXT to INDIAN CARD CLOTHING COMPANY Ltd, OPP. VALLABH NAGAR, PIMPRI, PUNE-411 018, MAHARASHTRA, INDIA TEL: +91-20-6819-2274

Kolhapur Service Satellite Aurangabad Service Satellite Mumbai Service Satellite

West India Service Center (Ahmedabad) 204-209, 2ND FLOOR, 31FIVE, CORPORATE ROAD PRAHLADNAGAR, AHMEDABAD -380015, GUJARAT, INDIA TEL: + 91-79-6777-788 Rajkot Service Satellite

## CHINA

## MITSUBISHI ELECTRIC AUTOMATION (CHINA) LTD. (CHINA FA CENTER) CNC Call Center TEL: +86-400-921-5130

- Shanghai Service Center shanghai Service Center NO. 1386 HONG QIAO ROAD, CHANG NING QU, SHANGHAI 200336, CHINA TEL: +86-21-2322-3030 / FAX: +86-21-2322-3000\*8422 Qingdao Service Center Suzhou Service Center Wuhan Service Center Ningbo Service Center Hefei Service Center Hefei Service Center Beijing Service Center Tianjin Service Center Xian Service Center Dalian Service Center Chengdu Service Cent

#### Shenzhen Service Center

LEVELS, GALAXY WORLD TOWER B, 1 YABAO ROAD, LONGGANG DISTRICT, SHENZHEN 518129, CHINA

- TEL: +86-755-2399-8272 / FAX: +86-755-8229-3686
- Dongguan Service Center Xiamen Service Center

#### KOREA

#### MITSUBISHI ELECTRIC AUTOMATION KOREA CO., LTD. (KOREA FA CENTER)

Korea Seoul Service Center 8F GANGSEO HANGANG XI-TOWER A, 401 YANGCHEON-RO, GANGSEO-GU, SEOUL 07528 KOREA TEL: +82-2-3660-9631 / FAX: +82-2-3664-8668

Korea Daegu Service Center 2F KT BLDG. 8, HOGUK-RO, BUK-GU, DAEGU 41518, KOREA TEL: +82-53-382-7401 / FAX: +82-53-382-7412

Korea Changwon Technical Center #205, 888, CHANGWON-DAERO, SEONGSAN-GU, CHANGWON-SI, GYEONGSANGNAM-DO, 51532, KOREA TEL: +82-55-261-5559 / FAX: +82-55-261-5558

## TAIWAN

## MITSUBISHI ELECTRIC TAIWAN CO., LTD. (TAIWAN FA CENTER)

Taiwan Taichung Service Center NO. 8-1, GONGYEQU 16TH RD., XITUN DIST., TAICHUNG CITY 40768 , TAIWAN TEL: +886-4-2359-0688 / FAX: +886-4-2359-0689

## Taiwan Taipei Service Center

11F, NO.86, SEC.6, ZHONGSHAN N. RD., SHILIN DIST., TAIPEI CITY 11155, TAIWAN TEL: +886-2-2833-5430 / FAX: +886-2-2833-5433

Taiwan Tainan Service Center 11F-1, NO.30, ZHONGZHENG S. RD., YONGKANG DIST., TAINAN CITY 71067, TAIWAN TEL: +886-6225-030 / FAX: +886-6-252-5031

## OCEANIA

## MITSUBISHI ELECTRIC AUSTRALIA PTY. LTD.

Oceania Service Center 348 VICTORIA ROAD, RYDALMERE, N.S.W. 2116 AUSTRALIA TEL: +61-2-9684-7269/ FAX: +61-2-9684-7245

North India Service Center (Gurgaon) PLOT 517, GROUND FLOOR, UDYOG VIHAR PHASE-III, GURUGRAM 122008, HARYANA, INDIA TEL: +91-124-463-0300 Ludhiana Service Satellite

## 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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# **MITSUBISHI ELECTRIC CORPORATION** HEAD OFFICE : TOKYO BLDG.,2-7-3 MARUNOUCHI,CHIYODA-KU,TOKYO 100-8310,JAPAN

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