



## Providing Information of Data regarding “Connected Product”

FANUC CORPORATION provides the following information regarding data related to FANUC ROBODRILL  $\alpha$ -DiB Plus series.

For information on each data, refer to the files below (hereafter referred to as the data list).

「Materials for Providing Information\_Annex\_CNC,Power Motion」, 「Materials for Providing Information\_FANUC ROBODRILL  $\alpha$ -DiB Plus serie Annex」

### 1. Type, format and estimated volume of product data

- Type: Refer to the data list.
- Format: Refer to the data list.
- Estimated volume: Refer to the data list.

### 2. Frequency of product data generation

The frequency of generation varies depending on the data. Refer to the data list.

### 3. Product data storage location

The storage location varies depending on the data. Refer to the data list.

### 4. Methods for accessing, obtaining, or deleting product data

The methods for accessing, obtaining, and deleting data vary depending on the data. Refer to the data list.

Connected Product Name	(1)Product data				(2)Frequency of product data generation (whether data can be generated continuously and in real time)	(3)Whether data is stored on your device or on a remote server	(4)Methods for accessing, obtaining, or deleting product data	
	Type	Data name	Format	Estimated volume				
FANUC Series 30i-MODEL B FANUC Series 30i-MODEL B Plus FANUC Series 31i-MODEL B FANUC Series 31i-MODEL B Plus FANUC Series 31i-MODEL B5 FANUC Series 31i-MODEL B5 Plus FANUC Series 32i-MODEL B FANUC Series 32i-MODEL B Plus FANUC Series 35i-MODEL B	CNC composition	Software, Hardware series/edition number	text file	1.2 Kbyte	Static information, always up-to-date	Possible	·Output on the CNC screen (ALL I/O screen)	
FANUC Series 30i-LB FANUC Series 30i-LB Plus FANUC Series 30i-PB FANUC Series 31i-LB FANUC Series 31i-LB Plus FANUC Series 31i-PB FANUC Series 31i-PB Plus FANUC Series 31i-WB	CNC status	Actual power consumption	number	4 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (power consumption monitor screen)	
		Executing program name*2	string	32 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen	
		Operating status*2	string	10 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen	
		Main program name*2	string	32 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen	
		Total power-on time	number	4 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (setting screen)	
		Fan speed of CNC	number	8 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (diagnosis screen) ·Diagnosis number : 1002, 1003, 1490, 1491	
		Fan status of CNC	number	2 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (diagnosis screen) ·Diagnosis number : 1495, 1496	
		Absolute coordinates of the axis*2	number	8 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (position screen)	
		Actual power consumption of the axis	number	4 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (power consumption monitor screen)	
		Axis load	number	4 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (operating monitor screen)	
FANUC Series 0i-MF FANUC Series 0i-MF Plus FANUC Series 0i-TF FANUC Series 0i-TF Plus FANUC Series 0i-PF FANUC Series 0i-PF Plus FANUC Series 0i-LF Plus	CNC axis status	Insulation resistance value of the axis	number	8 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (diagnosis screen) ·Diagnosis number : 1701(axis) , 1703(main axis)	
		Deterioration status of insulation resistance of the axis	number	1 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (diagnosis screen) ·Diagnosis number : 1700(axis) , 1701(main axis)	
		Machine coordinates of the axis	number	8 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (position screen)	
		Relative coordinates of the axis*2	number	8 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (position screen)	
		Rotational speed of the axis*2	number	8 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (position screen)	
		Axis motor temperature	number	1 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (diagnosis screen) ·Diagnosis number : 308(axis) , 403(main axis)	
		B code*1	number	4 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (program check screen)	
		F code	number	4 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (program check screen)	
		G code	number	4 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (program check screen)	
		H code	number	4 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (program check screen)	
FANUC Power Motion i-A Plus FANUC Power Motion i-MODEL A  FANUC Digital Servo Adapter- MODEL B	CNC path status *2	M code	number	4 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (program check screen)	
		Running program name of the path	string	32 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (program check screen)	
		Actual rotation speed of the path	number	4 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (position screen)	
		S code	number	4 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (program check screen)	
		T code	number	4 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (program check screen)	
		Cutting time of the path	number	4 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (setting screen)	
		Actual feedrate of the path	number	4 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (position screen)	
		Machine lock signal of the path	number	1 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (position screen)	
		Program running time of the path	number	4 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (setting screen)	
		Number of machined parts of the path	number	4 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (setting screen)	
		Main program name of the path	string	32 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen	
		Sequence number of the path	number	4 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (program check screen)	
		Total number of machined parts of the path	number	4 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (setting screen)	
		Alarm information	Alarm message	string	64 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (alarm screen)
			Alarm numbe	number	2 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (alarm screen)
			Alarm type	string	2 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (alarm screen)
		Operator message *2	Operator message	string	128 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (message screen)
			Message number	number	2 byte	Dynamic information, always up-to-date	Not possible	·Check on the CNC screen (message screen)
Program*2	Program	text file	~32Mbyte	Static information, always up-to-date	Possible	·Output on the CNC screen (ALL I/O screen)		
	Tool offset*2	text file	~100Kbyte	Static information, always up-to-date	Possible	·Output on the CNC screen (ALL I/O screen)		
Setting	Workpiece origin offset amount*2	text file	~10Kbyte	Static information, always up-to-date	Possible	·Output on the CNC screen (ALL I/O screen)		
	Pitch error compensation*2	text file	~100Kbyte	Static information, always up-to-date	Possible	·Output on the CNC screen (ALL I/O screen)		
	3D error compensation*1,*2	text file	~1Mbyte	Static information, always up-to-date	Possible	·Output on the CNC screen (ALL I/O screen)		
	Custom macro variables*2	text file	~100Kbyte	Static information, always up-to-date	Possible	·Output on the CNC screen (ALL I/O screen)		
	Tool life management*1,*2	text file	~10Kbyte	Static information, always up-to-date	Possible	·Output on the CNC screen (ALL I/O screen)		
	Tool management*1,*2	text file	~1Mbyte	Static information, always up-to-date	Possible	·Output on the CNC screen (ALL I/O screen)		
	Tool geometry and dimensions*1,*2	text file	~100Kbyte	Static information, always up-to-date	Possible	·Output on the CNC screen (ALL I/O screen)		
	Parameters	text file	~1Mbyte	Static information, always up-to-date	Possible	·Output on the CNC screen (ALL I/O screen)		
History	Operation history	text file	~300 K byte	Dynamic information, always up-to-date	Possible	·Output on the CNC screen (ALL I/O screen)		
	Alarm history	text file	~300 K byte	Dynamic information, always up-to-date	Possible	·Output on the CNC screen (ALL I/O screen)		
	Operator message history*2	text file	~300 K byte	Dynamic information, always up-to-date	Possible	·Output on the CNC screen (ALL I/O screen)		
Maintenance	Regular maintenance	text file	~1 Kbyte	Static information, always up-to-date	Possible	·Output on the CNC screen (ALL I/O screen)		
PMC	PMC signal	number	~256 kbyte	Dynamic information, always up-to-date	Not Possible	·Check on the CNC screen (Signal status screen)		
CNC identification number	CNC identification number	text file	1Kbyte	Static information, always up-to-date	Possible	·Output on the CNC screen (ALL I/O screen)		

\*1:FANUC Power Motion i-A Plus and\*2:FANUC Power Motion i-MODEL A are not supported.

\*2:FANUC Digital Servo Adapter-MODEL B are not supported.

Connected Product Name	(1)Product data				(2)Frequency of product data generation (whether data can be generated continuously and in real time)	(3)Whether data is stored on your device or on a remote server	(4)Methods for accessing, obtaining, or deleting product data
	Type	Data name	Format	Estimated volume			
FANUC Series 501i-A FANUC Series 501iS-A FANUC Series 502i-A FANUC Series 502iS-A FANUC Series 503i-A	CNC composition	Software, Hardware series/edition number	text file	1.2 Kbyte	Static information, always up-to-date	Possible	•Output on the CNC screen (data input/output screen)
	CNC status	Executing program name*2	string	32 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (operation screen)
		Operating status*2	string	10 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen
		Main program name*2	string	32 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (operation screen)
		Total power-on time	number	8 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (operation screen)
		Fan speed of CNC	number	16 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (diagnosis screen) •Diagnosis number : 1002, 1003, 1490, 1491
	CNC axis status	Fan status of CNC	number	2 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (diagnosis screen) •Diagnosis number : 1495, 1496
		Absolute coordinates of the axis*2	number	8 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (operation screen)
		Actual power consumption of the axis	number	4 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (power consumption monitor screen)
		Axis load	number	4 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (operation screen)
		Insulation resistance value of the axis	number	8 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (diagnosis screen) •Diagnosis number : 1701(axis) , 1703(main axis)
		Deterioration status of insulation resistance of the axis	number	1 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (diagnosis screen) •Diagnosis number : 1700(axis) , 1701(main axis)
		Machine coordinates of the axis	number	8 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (operation screen)
		Relative coordinates of the axis*2	number	8 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (operation screen)
	CNC path status *2	Rotational speed of the axis*2	number	8 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (operation screen)
		Axis motor temperature	number	1 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (diagnosis screen) •Diagnosis number : 308(axis) , 403(main axis)
		B code*1	number	4 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (operation screen)
		F code	number	4 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (operation screen)
		G code	number	4 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (operation screen)
		H code	number	4 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (operation screen)
		M code	number	4 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (operation screen)
		Running program name of the path	string	32 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (operation screen)
		Actual rotation speed of the path	number	4 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (operation screen)
		S code	number	4 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (operation screen)
		T code	number	4 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (operation screen)
		Cutting time of the path	number	8 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (operation screen)
		Actual feedrate of the path	number	4 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (operation screen)
		Machine lock signal of the path	string	1 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (operation screen)
		Program running time of the path	number	8 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (operation screen)
		Number of machined parts of the path	number	4 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (operation screen)
		Alarm information	Main program name of the path	string	32 byte	Dynamic information, always up-to-date	Not possible
	Sequence number of the path		number	4 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (operation screen)
	Operator message *2	Total number of machined parts of the path	number	4 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (operation screen)
		Alarm message	string	512 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (message screen)
	Program*2	Alarm numbe	number	2 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (message screen)
		Alarm type	string	2 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (message screen)
	Setting	Operator message	string	512 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (message screen)
		Message number	number	2 byte	Dynamic information, always up-to-date	Not possible	•Check on the CNC screen (message screen)
		Program	text file	~32Mbyte	Static information, always up-to-date	Possible	•Output on the CNC screen (data input/output screen)
		Tool offset*2	text file	~100Kbyte	Static information, always up-to-date	Possible	•Output on the CNC screen (data input/output screen)
		Workpiece origin offset amount*2	text file	~10Kbyte	Static information, always up-to-date	Possible	•Output on the CNC screen (data input/output screen)
		Pitch error compensation*2	text file	~100Kbyte	Static information, always up-to-date	Possible	•Output on the CNC screen (data input/output screen)
		3D error compensation*1,*2	text file	~1Mbyte	Static information, always up-to-date	Possible	•Output on the CNC screen (data input/output screen)
		Custom macro variables*2	text file	~100Kbyte	Static information, always up-to-date	Possible	•Output on the CNC screen (data input/output screen)
		Tool life management*1,*2	text file	~10Kbyte	Static information, always up-to-date	Possible	•Output on the CNC screen (data input/output screen)
		Tool management*1,*2	text file	~1Mbyte	Static information, always up-to-date	Possible	•Output on the CNC screen (data input/output screen)
		Tool geometry and dimensions*1,*2	text file	~100Kbyte	Static information, always up-to-date	Possible	•Output on the CNC screen (data input/output screen)
		CNC built-in 3D interference check geometry	text file	~100Kbyte	Static information, always up-to-date	Possible	•Output on the CNC screen (data input/output screen)
		Parameters	text file	~1Mbyte	Static information, always up-to-date	Possible	•Output on the CNC screen (data input/output screen)
	History	Operation history	text file	~450 Kbyte	Dynamic information, always up-to-date	Possible	•Output on the CNC screen (data input/output screen)
		Alarm history	text file	~450 Kbyte	Dynamic information, always up-to-date	Possible	•Output on the CNC screen (data input/output screen)
		Operator message history*2	text file	~450 Kbyte	Dynamic information, always up-to-date	Possible	•Output on the CNC screen (data input/output screen)
	PMC	PMC signal	number	~768 Kbyte	Dynamic information, always up-to-date	Not Possible	•Check on the CNC screen (PMC status screen)
CNC identification number	CNC identification number	text file	1Kbyte	Static information, always up-to-date	Possible	•Output on the CNC screen (data input/output screen)	

\*1:FANUC Power Motion i-A Plus and\*2:FANUC Power Motion i-MODEL A are not supported.

\*2:FANUC Digital Servo Adapter-MODEL B are not supported.

Connected Product Name	(1) Product Data				(2) Frequency of data generation (availability of continuous and real-time data generation)	(3) Whether data can be stored on the device or on a remote server	(4) Method of accessing, acquiring, or, if applicable, erasing data.	
	Classification.	data-name	form (something takes)	Estimated quantity				
FANUC ROBODRILL α-D21SiB5 Plus FANUC ROBODRILL α-D14SiB5 Plus FANUC ROBODRILL α-D21SiB Plus FANUC ROBODRILL α-D14SiB Plus	Log	Production Results	text file	475 bytes	Dynamic information, always up-to-date output	Allowed	Output on iHMI screen (production results screen)	
		Power Consumption History	text file	373 bytes	Dynamic information, always up-to-date output	Allowed	Output on iHMI screen (energy saving screen)	
		Coolant condition history	text file	656 byte	Dynamic information, always up-to-date output	Allowed	Output on iHMI screen (coolant management screen)	
		Thermal displacement correction	text file	12.1 Kbyte	Dynamic information, always up-to-date output	Allowed	Output on iHMI screen (thermal displacement correction)	
		iHMI Alarm History	character string	4 bytes x 1000	Dynamic information, always up-to-date	Not allowed	Check on the iHMI screen (alarm history screen)	
	FANUC ROBODRILL α-D21MiB5 Plus FANUC ROBODRILL α-D14MiB5 Plus FANUC ROBODRILL α-D21MiB Plus FANUC ROBODRILL α-D14MiB Plus	Maintenance	CNC Alarm History	text file	129 Kbyte	Dynamic information, always up-to-date output	Allowed	Output by NCBOOT (file name CEX6DATA)
			Factory parameter	text file	385 Kbyte	Static information, always up-to-date output	Allowed	Output by NCBOOT (file name CEX8DATA)
			User Registration Parameters	text file	385 Kbyte	Dynamic information, always up-to-date output	Allowed	Output by NCBOOT (file name CEX7DATA)
			Results of insulation degradation	text file	1.27 Kbyte	Dynamic information, always up-to-date output	Allowed	Output on iHMI screen (insulation degradation detection)
FANUC ROBODRILL α-D21LiB5 Plus FANUC ROBODRILL α-D14LiB5 Plus FANUC ROBODRILL α-D21LiB Plus FANUC ROBODRILL α-D14LiB Plus	Setting	Setup setup file (workpiece name, machining program, coordinate system, offset, table weight)	text file	1025 Kbyte	Dynamic information, always up-to-date output	Allowed	Output by NCBOOT (file name CEX9DATA)	
		Machining data management (workpiece name, machining program, coordinate system, offset, table weight, macro variables, machining mode, thermal displacement compensation, robot IF settings)	text file	200 Kbyte *2	Dynamic information, always up-to-date output	Allowed	Output on iHMI screen (processing data management screen)	
		Spindle speed limit	text file	298 byte	Dynamic information, always up-to-date output	Allowed	Output on iHMI screen (spindle speed limit screen)	
		Settings related to linkage with robots (workpiece exchangeable area, robot specifications, control method)	text file	1.5 Kbyte	Dynamic information, always up-to-date output	Allowed	Output on iHMI screen (robot I/F screen)	
		RFID tag and user management *1	text file	2.39 Kbyte	Dynamic information, always up-to-date output	Allowed	Output on iHMI screen (operation level management screen)	
		Operation level authentication by password, external signal, or USB	text file	1.27 Kbyte	Dynamic information, always up-to-date output	Allowed	Output on iHMI screen (operation level management screen)	
		Operation level required to access	text file	4.32 Kbyte	Dynamic information, always up-to-date output	Allowed	Output on iHMI screen (operation level management screen)	
		Favorites screen	text file	3.89 Kbyte	Dynamic information, always up-to-date output	Allowed	Output on iHMI screen (favorite screen)	
		Processing Mode Adjustment Value	text file	21.3 Kbyte	Dynamic information, always up-to-date output	Allowed	Output on iHMI screen (processing mode screen)	
		Periodic maintenance intervals for	text file	753 Byte	Dynamic information, always up-to-date output	Allowed	Output on iHMI screen (scheduled maintenance screen)	
FANUC ROBODRILL α-D28LiB5ADV Plus Y500 FANUC ROBODRILL α-D21LiB5ADV Plus Y500 FANUC ROBODRILL α-D14LiB5ADV Plus Y500 FANUC ROBODRILL α-D28LiBADV Plus Y500 FANUC ROBODRILL α-D21LiBADV Plus Y500 FANUC ROBODRILL α-D14LiBADV Plus Y500	PMC	Coordinate system and offset	text file	15.9 Kbyte	Dynamic information, always up-to-date output	Allowed	Output on iHMI screen (error operation prevention screen)	
		Virtual Operation Panel	text file	747 Byte	Dynamic information, always up-to-date output	Allowed	Output on iHMI screen (custom operation panel screen)	
		PMC program created by customer	text file	*2	Dynamic information, always up-to-date output	Allowed	Output on the CNC screen (ALL I/O screen)	
		Message created by customer	text file	*2	Dynamic information, always up-to-date output	Allowed	Output on the CNC screen (ALL I/O screen)	
		Custom screen	Screen created by customer	character string	*2	Dynamic information, always up-to-date	Not allowed	Confirmation on iHMI screen (custom screen)
		On-screen	Data that can be checked on	character string	-	Dynamic information, always up-to-date	Not allowed	Confirmation on various screens

\*1 The operation level management screen is valid only when the RFID option is applied.

\*2 May vary depending on the customer's usage environment.