

**DEVICE
CONNECTIVITY**

**DEVICE CONNECTIVITY FOR
ADVANCED
MANUFACTURING**

CNC Data produce industry leading software and connectivity for advanced manufacturing CNC, Additive and PLC Automation devices.

Our software has connected 1000's of CNC machines and Automation devices across the world for equipment and application vendors, OEM's, Manufacturers as well as for our own Products. Using CNC Data for Device Connectivity greatly simplifies, reduces the risk and will standardise your next project.


**STANDARDS BASED
CONNECTIVITY THAT CAN
GROW WITH YOUR PROJECT**

Our products don't just implement the Standards CNC Data are members of the MT Connect foundation actively involved in Working Groups developing the Standard and are a Logo Member of the OPC Foundation.


CNC Data understand the importance of collaboration, its essential for success. Working with us means we will show as much as we tell and are as proud of our training and support as we are our proprietary applications.

HOW TO PURCHASE

Contact your application provider or contact CNC Data directly, here's our details:

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840D POWER LINE / 840D SOLUTION LINE / 828

SIEMENS

SINUMERIK 840D

SINUMERIK CONTROL MODEL**SINUMERIK 840D / 840Di POWER LINE**

HOST	PCU50
SOFTWARE	HMI ADVANCED
CONNECTIVITY	ETHERNET PCU50
MINIMUM VERSION	06.02.10
ADDITIONAL LICENCE	NOT REQUIRED

SINUMERIK 840D SOLUTION LINE

HOST	PCU50
SOFTWARE	SINUMERIK OPERATE
CONNECTIVITY	PCU50 ETHERNET
MINIMUM VERSION	4.7 SP2 HF11
ADDITIONAL LICENCE	6FC5800-0AP67-0YB0

SINUMERIK 840D SOLUTION LINE

HOST	EMBEDDED
SOFTWARE	SINUMERIK OPERATE
CONNECTIVITY	X130
MINIMUM VERSION	4.7 SP2 HF11
ADDITIONAL LICENCE	6FC5800-0AP67-0YB0

INSTALLATION**MACHINE**

CONFIGURATION	NETWORK
SOFTWARE INSTALL	YES POWERLINE
CYCLE POWER	YES
SERVICE MODE	YES
PARAMETERS CHAGED	NO
INSTALL DOWNTIME	~15 MINUTES

DATA AVAILABILITY**NC**

CAPABILITY	ADVANCED
STATUS	STATE / MODE
PROGRAM	NAME, SUB, BLOCK, LINE +
TOOLING	CURRENT, PROGRAMMED +
AXIS	ACTUAL, COMMANDED +
FUNCTIONS	SBL, M00/1, DRY, RAPID +
OVERRIDE	FEED, SPINDLE, RAPID
MEMORY	GUD, R, UGUD
ALARM	NUMBER, TEXT
OFFSET	AXIS, TOOL +
DRIVE	LOAD, VARIABLES +
ADVANCED	ALL AREAS

PLC

IO	YES
MEMORY	YES

DATA OUTPUT STANDARDS**MACHINE**

MTCONNECT	V1.4
OPC / UA	YES
OPEN INDUSTRY	JSON
MINDSPHERE	MQTT

SUPPORTING INFRASTRUCTURE**IT / NETWORK**

NETWORK IP ADDRESS	1 X DHCP / FIXED
SERVER / PC	MTCONNECT / MINDSPHERE
CABLING	PCU50 / NCU
CNC EDGE	OPTIONAL

SERIES OiD / 16i / 18i / 21i / 31i / 31iW / PMi

FANUC

FOCAS 1 / 2

FANUC CONTROL MODEL**16i / 18i / 21i / 31i / PMi**

HOST	PC / SERVER
SOFTWARE	NONE
CONNECTIVITY	EMBED PORT
MINIMUM VERSION	MODEL B +
ADDITIONAL LICENCE	NOT REQUIRED

DATASERVER

HOST	PC / SERVER
SOFTWARE	NONE
CONNECTIVITY	ETHERNET DATA SERVER
MINIMUM VERSION	30i A
ADDITIONAL LICENCE	NOT REQUIRED

INSTALLATION**MACHINE**

CONFIGURATION	NETWORK / FOCAS
SOFTWARE INSTALL	NO
CYCLE POWER	YES
SERVICE MODE	NO
PARAMETERS CHAGED	NO
INSTALL DOWNTIME	~ 5 MINUTES

DATA AVAILABILITY**NC**

CAPABILITY	ADVANCED
STATUS	STATE / MODE
PROGRAM	NUMBER, SUB, LINE
TOOLING	CURRENT
AXIS	ACTUAL, COMMANDED
FUNCTIONS	SBL, M00/1, DRY, RAPID +
OVERRIDE	FEED, SPINDLE, RAPID
MEMORY	# VAR, PARTCOUNT
ALARM	NUMBER, TEXT
OFFSET	AXIS, TOOL +
DRIVE	LOAD
ADVANCED	ALL AREAS

PLC

IO	LIMITED
MEMORY	LIMITED

DATA OUTPUT STANDARDS**MACHINE**

MTCONNECT	V1.4
OPC / UA	YES
OPEN INDUSTRY	JSON
MINDSPHERE	MQTT

SUPPORTING INFRASTRUCTURE**IT / NETWORK**

NETWORK IP ADDRESS	1 X FIXED
SERVER / PC	YES
CABLING	CONTROL UNIT
CNC EDGE	OPTIONAL

TNC 320, TNC 360, TNC 426, TNC 430, iTNC 530, TNC 620, TNC 640



HEIDENHAIN
The Measure of Excellence
LSV2

HEIDENHAIN CONTROL MODEL

320 / 360 / 426 / 430 / 530 / 620 / 640

HOST	PC / SERVER
SOFTWARE	NONE
CONNECTIVITY	ETHERNET CONTROL UNIT
MINIMUM VERSION	N/A
ADDITIONAL LICENCE	OPTION 18

INSTALLATION

MACHINE

CONFIGURATION	NETWORK / OPTIONS
SOFTWARE INSTALL	NO
CYCLE POWER	YES
SERVICE MODE	NO
PARAMETERS CHAGED	NO
INSTALL DOWNTIME	~ 15 MINUTES

DATA AVAILABILITY

NC

CAPABILITY	LIMITED
STATUS	STATE
PROGRAM	NUMBER
TOOLING	CURRENT
AXIS	NO
FUNCTIONS	NO
OVERRIDE	FEED
MEMORY	LIMITED
ALARM	STATE
OFFSET	NO
DRIVE	NO
ADVANCED	NO

PLC

IO	NO
MEMORY	NO

DATA OUTPUT STANDARDS

MACHINE

MTCONNECT	V1.4
OPC / UA	YES
OPEN INDUSTRY	JSON
MINDSPHERE	MQTT

SUPPORTING INFRASTRUCTURE

IT / NETWORK

NETWORK IP ADDRESS	1 X FIXED
SERVER / PC	YES
CABLING	CONTROL UNIT
CNC EDGE	OPTIONAL



SPEEDIO B00, C00

brother®

SPEEDIO

BROTHER CONTROL MODEL

B00 / C00	
HOST	PC / SERVER
SOFTWARE	NONE
CONNECTIVITY	ETHERNET CONTROL UNIT
MINIMUM VERSION	N/A
ADDITIONAL LICENCE	NOT REQUIRED

INSTALLATION

MACHINE	
CONFIGURATION	NETWORK
SOFTWARE INSTALL	NO
CYCLE POWER	YES
SERVICE MODE	NO
PARAMETERS CHAGED	YES
INSTALL DOWNTIME	~ 5 MINUTES

DATA AVAILABILITY

NC	
CAPABILITY	ADVANCED
STATUS	STATE, MODE
PROGRAM	NUMBER, NAME
TOOLING	CURRENT
AXIS	ACTUAL, COMMANDED
FUNCTIONS	SBL, M00/1, DRY, RAPID +
OVERRIDE	FEED, SPINDLE, RAPID
MEMORY	PARTCOUNT
ALARM	NUMBER, TEXT
OFFSET	AXIS, TOOL
DRIVE	NO
ADVANCED	LIMITED

PLC	
IO	YES
MEMORY	YES

DATA OUTPUT STANDARDS

MACHINE	
MTCONNECT	V1.4
OPC / UA	YES
OPEN INDUSTRY	JSON
MINDSPHERE	MQTT

SUPPORTING INFRASTRUCTURE

IT / NETWORK	
NETWORK IP ADDRESS	1 X FIXED
SERVER / PC	YES
CABLING	CONTROL UNIT
CNC EDGE	OPTIONAL





MATRIX, NEXUS, SMOOTH, MAZATROL, FUSION

MAZAK CONTROL MODEL

MATRIX / NEXUS / SMOOTH / MAZATROL

HOST	PC / SERVER
SOFTWARE	MAZAK OEM
CONNECTIVITY	ETHERNET CONTROL UNIT
MINIMUM VERSION	N/A
ADDITIONAL LICENCE	NOT REQUIRED

FUSION

HOST	PC / SERVER
SOFTWARE	MAZAK PCMCIA DRIVER
CONNECTIVITY	PCMCIA ETHERNET
MINIMUM VERSION	N/A
ADDITIONAL LICENCE	NOT REQUIRED

INSTALLATION

MACHINE

CONFIGURATION	NETWORK
SOFTWARE INSTALL	SETUP
CYCLE POWER	NO
SERVICE MODE	NO
PARAMETERS CHAGED	NO
INSTALL DOWNTIME	~ 5 MINUTES

DATA AVAILABILITY

NC

CAPABILITY	LIMITED
STATUS	STATE, MODE
PROGRAM	NUMBER, NAME
TOOLING	CURRENT
AXIS	NO
FUNCTIONS	M00, RAPID
OVERRIDE	FEED, SPINDLE, RAPID
MEMORY	NO
ALARM	NUMBER, TEXT, LEVEL
OFFSET	NO
DRIVE	NO
ADVANCED	NO

PLC

IO	NO
MEMORY	NO

DATA OUTPUT STANDARDS

MACHINE

MTCONNECT	V1.4
OPC / UA	YES
OPEN INDUSTRY	JSON
MINDSPHERE	MQTT

SUPPORTING INFRASTRUCTURE

IT / NETWORK

NETWORK IP ADDRESS	1 X FIXED
SERVER / PC	YES
CABLING	CONTROL UNIT
CNC EDGE	OPTIONAL



GENERATION 1, GENERATION 2



MAZAK CONTROL MODEL

GENERATION 1

HOST	CNC EDGE
SOFTWARE	NONE
CONNECTIVITY	RS232
MINIMUM VERSION	N/A
ADDITIONAL LICENCE	NOT REQUIRED

GENERATION 2

HOST	PC / SERVER
SOFTWARE	NONE
CONNECTIVITY	ETHERNET CONTROL UNIT
MINIMUM VERSION	N/A
ADDITIONAL LICENCE	NOT REQUIRED

INSTALLATION

MACHINE

CONFIGURATION	NETWORK
SOFTWARE INSTALL	SETUP
CYCLE POWER	NO
SERVICE MODE	NO
PARAMETERS CHAGED	NO
INSTALL DOWNTIME	~ 5 MINUTES

DATA AVAILABILITY

NC

CAPABILITY	LIMITED
STATUS	STATE, MODE
PROGRAM	NUMBER
TOOLING	CURRENT
AXIS	ACTUAL
FUNCTIONS	M00, RAPID, DRY +
OVERRIDE	FEED, SPINDLE, RAPID
MEMORY	PART COUNT
ALARM	TEXT
OFFSET	NO
DRIVE	NO
ADVANCED	NO

PLC

IO	NO
MEMORY	NO

DATA OUTPUT STANDARDS

MACHINE

MTCONNECT	V1.4
OPC / UA	YES
OPEN INDUSTRY	JSON
MINDSPHERE	MQTT

SUPPORTING INFRASTRUCTURE

IT / NETWORK

NETWORK IP ADDRESS	1 X FIXED
SERVER / PC	YES
CABLING	CONTROL UNIT
CNC EDGE	RS232

