

TAIWAN

Taiwan (Hsinchu)
SYNTEC Technology Co., Ltd
ADD : No.25, Yanfa 2nd Rd., East Dist.,
Hsinchu City 300, Taiwan (R.O.C.)
TEL : +886-3-6663553
FAX : +886-3-6663505
EMAIL : sales@syntecclub.com.tw

Taichung
SUN-GNC Co., Ltd
ADD : No. 22, Lane 428, Section 1, Fengyuan
Boulevard, Fengyuan District
TEL : +886-4-25337731
TAX : +886-4-25349224

TANLI-CNC Co., Ltd
ADD : No. 42, Jingming Road, Xitun District,
Taichung City, Taiwan (R.O.C.)
TEL : +886-4-23102626
TAX : +886-4-23102636

Tainan
ADD : No. 218, Denan Road, Rende District,
Tainan City, Taiwan (R.O.C.)
TEL : +886-6-2796707
TAX : +886-6-2796705

CHINA

Jiangsu
SYNTEC TECHNOLOGY(Suzhou)CO.,Ltd
ADD : Building B, No.9 Chunhui Road,Suzou Industrial
Park,China
TEL : 0512-89008860
FAX : 0512-85246029

**SYNTEC TECHNOLOGY(Suzhou)CO.,Ltd WuXi
Office**
ADD : 8906, Yuye Network Building, 68 Exploration
Road, Huishan District, Wuxi City, Jiangsu Province,
China
TEL : 15295664580

**SYNTEC TECHNOLOGY(Suzhou)CO.,Ltd
Changzhou Office**
ADD : Room 2217, Yatai Fortune Center, No. 1
Huayuan Street, Hutang Town, Wujin District,
Changzhou City, Jiangsu Province, China
TEL : 18168828572

**SYNTEC TECHNOLOGY(Suzhou)CO.,Ltd
XuZhou Branch**
ADD : Room 1503, South of Territorial Sea Office,
Building, No.66, Kungeng Road, Xuzhou Economic
Development Zone, Jiangsu Province, China
TEL : 13656201020

**SYNTEC TECHNOLOGY(Suzhou)CO.,Ltd
NanJingBranch**
ADD : Room 712, Research Building 1, Lianggang
Park, 117 Suyuan Avenue, Jiangning District, Nanjing
City, Jiangsu Province, China
TEL : 025-52717702
FAX : 025-52717710

**SYNTEC TECHNOLOGY(Suzhou)CO.,Ltd
NanTong Branch**
ADD : Room T3-1301, No. 108, Gangzha District,
North Street, Nantong City, Jiangsu Province, China
TEL : 0513-89077025
FAX : 0513-89072057

**SYNTEC TECHNOLOGY(Suzhou)CO.,Ltd
NanTong Branch Yanchen Office**
ADD : Room 401, building 13, phase 9, Zhongnan
Century City, Yandu District, Yancheng City, Jiangsu
Province
TEL : 18625235150

Shaanxi
SYNTEC TECHNOLOGY(Suzhou)CO.,Ltd XiAn
Branch
ADD : Room 1, 1328, Building 4, Yicui Garden I
Duhui, No. 10, South Tangyan Road, Xi'an
High-tech Zone
TEL : 029-88287423

**SYNTEC TECHNOLOGY(Suzhou)CO.,Ltd Baoji
Office**
ADD : Room 1702, Unit 3, Building 8, Dongling Xinshiji,
Binhe North Road, Jintai District, Baoji, Shaanxi
Province, China
TEL : 18622728669

SYNTEC Technology Co., Ltd.
No.25, Yanfa 2nd Rd., East Dist.,
Hsinchu City 300, Taiwan (R.O.C.)

☎ 886-3-6663553
☎ 886-3-6663505
✉ sales@syntecclub.com.tw

AROUND THE WORLD

Malaysia
ADD : No.2, Jalan Astana 1D, Bandar Bukit Raja, 41050
Klang, Selangor, Malaysia.
TEL : +603-33115887
EMAIL : sales.malaysia@syntecclub.com

Thailand
ADD : 78/88 Kheha Romklao Rd., Khlong Song Ton Nun,
Lat Krabang,Bangkok, 10520
TEL : +662-006-5738
EMAIL : thanawat@syntecclub.com.tw

Vietnam
ADD : 3F, No. 36, A4 Street, Ward 12, Tan Binh District,
Ho Chi Minh City, VietNam
TEL : +84938332829
FAX : +842822535556
EMAIL : andyngo@vnsyntec.com.vn

Turkey
ADD : Kücükbakkalkoy Mah. Vedat Günyol Cd. Defne Sok.
No:1 D:1502 Flora Residence,34750 Atasehir/Istanbul, Türkiye
TEL : +90-216-2662475
EMAIL : daisy.cheng@syntecclub.com.tw

USA (South California)
ADD : 2941 Saturn St., #D, Brea, CA 92821
TEL : +1909-551-0187
EMAIL : info@syntecamerica.com

Indonesia
PT. OTOMASI BERSAMA INDONESIA
ADD : Ruko Arcadia Mataram Blok B, No 15, Kelurahan
Cibatu, Kecamatan Cikarang selatan, 17530, Indonesia
TEL : +6221 2210 4832
EMAIL : yulius@otomasi.co

India
SYNTEC TECHNOLOGY INDIA PVT LTD
ADD : Champaka building, P-6C,2nd floor, peenya industrial
area Near peenya police station Bangalore-560058
TEL : +91-9916146577
E-mail : raghavendra.naik@syntecclub.com

Guangdong
SYNTEC TECHNOLOGY(Suzhou)CO.,Ltd GuangDong
Branch
ADD : Factory 201or 301, Building A, No.10 Nanjiang
Third Road, Zhuijiang Street, Nansha District,Guangzhou
City
TEL : 020-39089367
FAX : 020-39089791

**SYNTEC TECHNOLOGY(Suzhou)CO.,Ltd DongGuan
Branch**
ADD : 0769-81661ing 1, Mobile Group, No. 522, Zhen
'an East Road, Chang 'an Town, Dongguan City,
Guangdong Province, China
TEL : 0769-81660318

**SYNTEC TECHNOLOGY(Suzhou)CO.,Ltd GuangZhou
Branch**
ADD : Room 404, Building 2, Seven Friendship Building,
No.8 Luojiaoun Section, Fuyi Road, Dialong Street,
Panyu District, Guangzhou City, Guangdong Province
TEL : 020-34583040
FAX : 020-34583220

**SYNTEC TECHNOLOGY(Suzhou)CO.,Ltd ChangPing
Branch**
ADD : Floor 5, Huliong Building, No. 8, Zhanqian 1st
Road, Banshi Village, Changping Town, Dongguan City,
Guangdong Province, China
TEL : 0769-82828802
FAX : 0769-82828820

**SYNTEC TECHNOLOGY(Suzhou)CO.,Ltd ShenZhen
Branch**
ADD : 408, Block E, Haowei new material industrial
park, No. 8, Qinglan 1st Road, Zhukeng community,
Longtian street, Pingshan District, Shenzhen,
Guangdong
TEL : 0755-84320380
FAX : 0755-84559490

**SYNTEC TECHNOLOGY(Suzhou)CO.,Ltd JIangMen
Branch**
ADD : Room 02, 7th Floor, Torch Building, Hi-Tech
Zone, 288 Jinou Road, Jianghai District, Jiangmen City,
Guangdong Province - China
TEL : 0750-3762143

Henan
SYNTEC TECHNOLOGY(Suzhou)CO.,Ltd LuoYang
Branch
ADD : Room 704, Runsheng Building, Intersection of
Heluo Road and Sanshan Road, Hi-tech Zone, Luoyang,
Henan Province, China
TEL : 0379-65110352
FAX : 0379-65110352

**SYNTEC TECHNOLOGY(Suzhou)CO.,Ltd
ShiJiaZhuang Office**
ADD : E-3-801, Reyi Community, No. 8 Huaxing Road,
Qiaoxi District, Shijiazhuang City, Hebei Province, China
TEL : 18622728669
FAX : 0379-65110352

Fujian
SYNTEC TECHNOLOGY(Suzhou)CO.,Ltd XiaMen
Branch
ADD : Floor 3, No. 2, Jixiang West Road, Xinmin Town,
Tang'an District, Xiamen City, Fujian Provinc
TEL : 0592-7191901
FAX : 0592-7220536

Zhejiang
SYNTEC TECHNOLOGY(Suzhou)CO.,Ltd HangZhou
Branch
ADD : 1202, Unit 2, Building 1, Dikai Building, No.471
Jincheng Road, Xiaoshan District, Hangzhou City,
Zhejiang Province, China
TEL : 0571-82751187

**SYNTEC TECHNOLOGY(Suzhou)CO.,Ltd HangZhou
Branch Jinhua Office**
ADD : Room G204, No. 1729, Dongshi North Street,
Xinshi street, Wucheng District, Jinhua City, Zhejiang
Province
TEL : 1599-0026533

**SYNTEC TECHNOLOGY(Suzhou)CO.,Ltd WenZhou
Branch**
ADD : 1205-3, Honghai building, Ouhai District,
Wenzhou City, Zhejiang Province
TEL : 0577-86158619

**SYNTEC TECHNOLOGY(Suzhou)CO.,Ltd NingBo
Branch**
ADD : Room 1207, Ivy league Building, No.262, Lane
416, Zhaohui Road, Jiangdong-District, Ningbo City,
Zhejiang Province, China
TEL : 0574-87750305

**SYNTEC TECHNOLOGY(Suzhou)CO.,Ltd WenLing
Branch**
ADD : Room 509, Haosheng Service Building, No. 838,
Wanchang Middle Road, Chengdong Street, Wenling
City, Taizhou City, Zhejiang Province, China
TEL : 0576-86138372
FAX : 0576-86119106

**SYNTEC TECHNOLOGY(Suzhou)CO.,Ltd YuHuan
Office**
ADD : Room 302, Unit 2, Building 1, Hualong Times
Square, 226 Provincial Road, Chunmen Town, Yuhuan
County, Taizhou City, Zhejiang Province, China
TEL : 13088636567

Chongqing
SYNTEC TECHNOLOGY(Suzhou)CO.,Ltd ChongQing
Branch
ADD : 1007, Building 4, No.62, East Section of Taishan
Avenue, Yubei District, Chongqing
TEL : 023-67913296
FAX : 023-67634382

**SYNTEC TECHNOLOGY(Suzhou)CO.,Ltd ChengDu
Office**
ADD : ADD : Room102, Unit 1, Building 24, Jiazhaoye
Modern City, No.898, Section 2, Xingxing Road,
Dongsheng Street, Shuangliu District, Chengdu City,
Sichuan Province, China
TEL : 18302866229

Suzhou SYNTEC Equipment Co.,Ltd.
No. 9th, Chun Hui Road, Suzhou
Industrial Park, Jiangsu Province

☎ 86-512-69008860
☎ 86-512-65246029
✉ service@syntecclub.com.cn



<http://www.syntecclub.com.tw>

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CNC Controlling System

Drive Solution

Smart Machine Function

Automation Cell Solution



SYNTEC WOODWORKING CONTROLLER



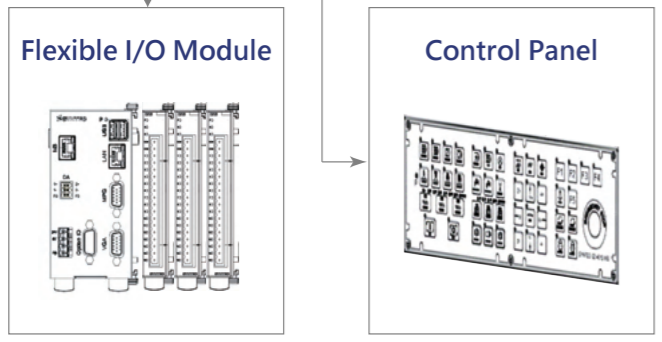
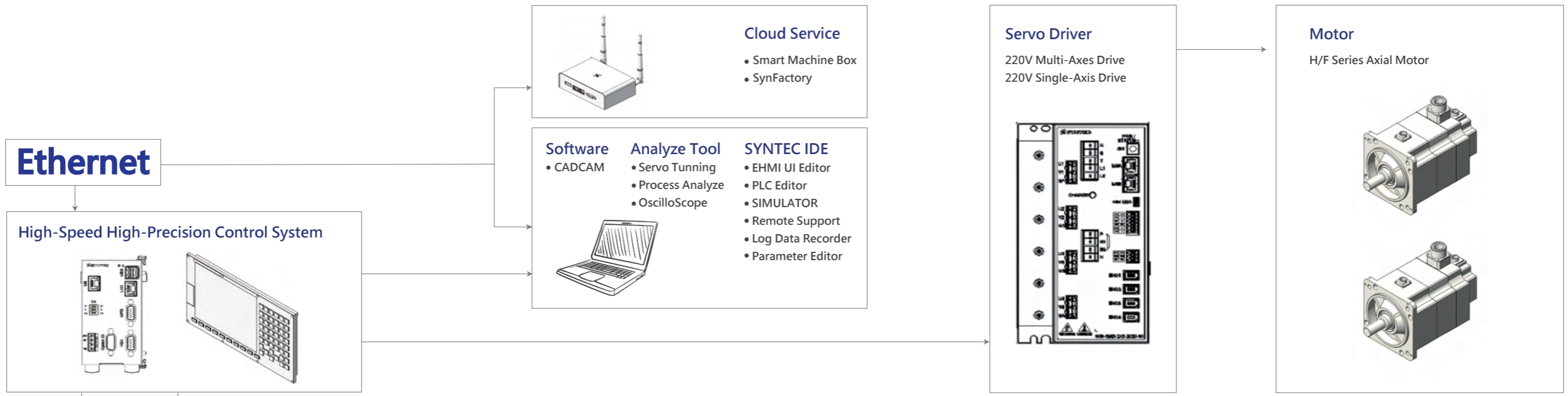
Profile

About Syntec

SYNTEC has been devoted to the machine tool industry with 100% owned controller technologies cultivated to be innovated in both hardware and software. In addition to the well known reputation in machine tool controllers, SYNTEC extended our businesses to servo products, drive, motors, and encoder in order to provide not only higher servo products performance but also one-stop solution service of a tool machine. SYNTEC has earned our customer trust by comprehensive after-sales service and has become one of the most influential and development potential brands in the Asia-Pacific market. SYNTEC now is taking "Industry 4.0" as the main goal of technological development.

Total Solution for Woodworking Machine	01
Woodworking Controller	03
Servo Drive/Motor	05
Practical controller platform features	11
Smart Machine	13
Flexible Manufacturing Cell	15
Five-Axes Control	16
Controller Model Spec	17

Total Solution for Woodworking Machine

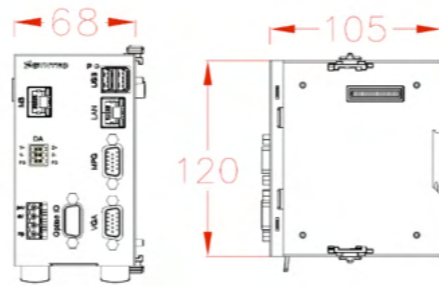


Woodworking Controller

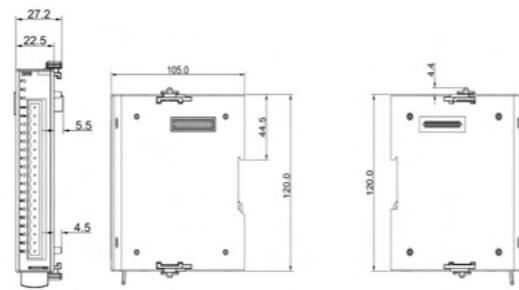
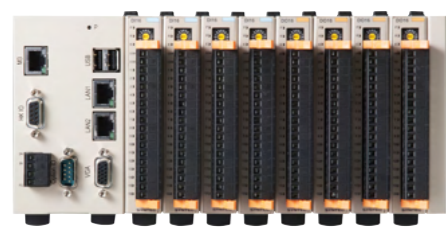
FC Controller



- Narrow size =68/ Wide size = 97.5



Flexible I/O Module



●~Standard ▲~Optional --~Not Available

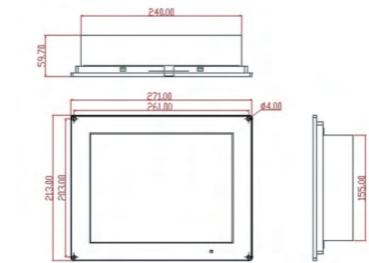
Length Unit : mm

Model	63WA	630WA	60WB	600WB	60CB	60PA	60CA
Size Version	Wide	Wide	Wide	Wide	Narrow	Narrow	Narrow
Standard Axes(Optional)	4(6)	7(18)	4(6)	7(18)	4(5)	3(18)	4
DA	2	2	2	2	2	2	-
Monitor	VGA	VGA	VGA	VGA	VGA	VGA	VGA
DiskC / DiskA	8G/4G	8G/4G	4G/4G	4G/4G	256M/4G	256M/4G	256M/4G
4Axes RTCP / 5Axes RTCP	▲/-	▲/-	▲/-	▲/-	-	-	-
Tool Length/Radius Comp	●/-	●/●	●/-	●/●	●/-	-/-	●/-
Woodworking CAD/CAM	▲	▲	▲(PC only)	▲(PC only)	-	-	-
PC-CNC App / VNC Server	●/●	●/●	●/-	●/-	●/-	●/-	▲/-
Controller Remote Support	●	●	-	-	-	-	-
Database (RestfulAPI)	▲	▲	-	-	-	-	-
Servo Protocol	Mechatrolink III / EtherCAT			Pulse			
IO	SRI Flexible I/O Module						

60PE



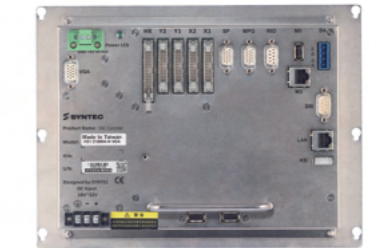
10" Touch Panel



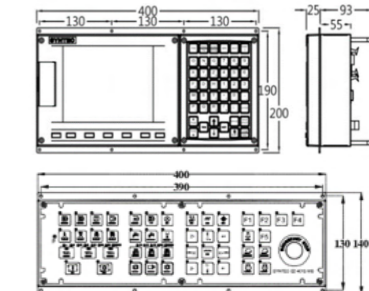
610-E5



Back-End 10" /15" Standard



60W-E



●~Standard ▲~Optional --~Not Available

Length Unit : mm

Model	60W-E	60PE	610MA-E5
Standard Axes(Optional)	4(6)	4(18)	8(18)
DA	2	2	2
Monitor	8"	10"	10" /15" / VGA
DiskC / DiskA	256M / 4G	4G / 4G	4G / 4G
4Axes RTCP / 5Axes RTCP	▲/-	-	●/▲
Woodworking CAD/CAM	-	-	-
PC-CNC App / VNC Server	●/-	●/-	●/-
Database (RestfulAPI)	-	-	-
Servo Protocol	Mechatrolink III / EtherCAT		Pulse
IO	32/32	32/32	32/32

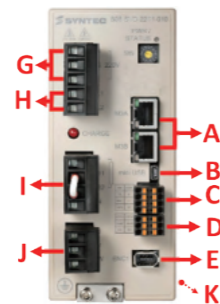
Servo Drive/Motor

Spec of Drive

Product	Type	PWR	SPEC	Rater/MaxCurrent	Protocol
Single-Axis Drive					
1KW (sizeA)	SVD-22C1-010	220V	1KW	7.6A/14.1A	M3
Mini Multi-Axes Drive					
SMD-30/30/30/30-XS	SMD24C20-00	220V	Axis:1/1/1/1	Axis:7.6A/14.1A	M3
SMD-30/30/30-XS	SMD23C20-00	220V	Axis:1/1/1	Axis:7.6A/14.1A	M3
SMD-30/30-XS	SMD22C20-00	220V	Axis:1/1	Axis:7.6A/14.1A	M3

Servo Interface Definition

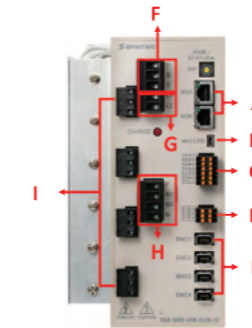
- Single-Axis Drive



A	Serial Communication Port	Connect to host controller Serial Communication 100Mbps
B	Mini USB端口	Connect to personal computer
C	I/O Signal Port External battery Port	Connect to I/O equipment(emergency sop, indicator lights, etc.) connect to the battery of the absolute encoder
D	STO Signal Port	STO interface, 2 sets of safety inputs, 1 set of safety feedback
E	Encoder Feedback	Connect to motor encoder
G	External Power Supply	Connect to 3-phase electrical power 220V(RST)
H	Control Power	If there are safety requirements, the controlled source can be independently supplied from L1 & L2 and connect to single-phase AC 220V. The input voltage must be the same as RST.
I	Regenerative Resistor	Two connection methods of SIZEA, SIZEB, optional: (a) Connect the external regenerative resistor to P & B2. (b) The built-in brake is to short circuit B1 and B2SIZE D: external regenerate resistor connects to P and B
J	Machine Power Supply	Connect to motor and supply power. (UVW)
K	Expansion Module Connector	Expansion Module Connector

Servo Interface Definition

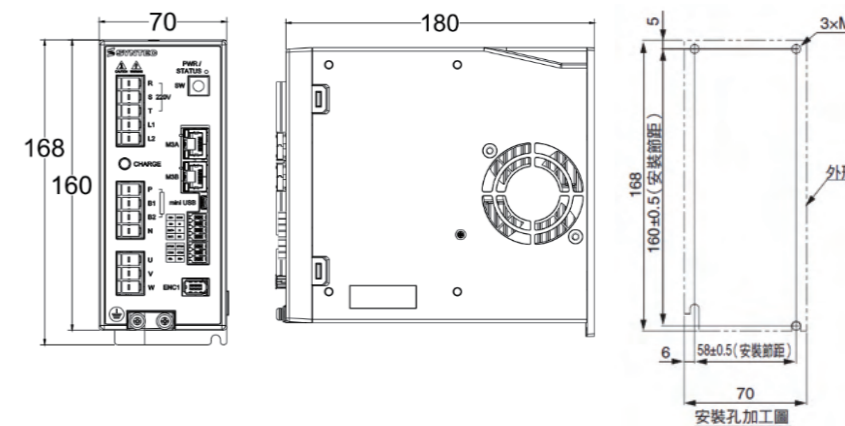
- MINI Multi-Axes Drive



A	Serial Communication Port	Connect to host controller Serial Communication 100Mbps
B	Mini USB	Connect to personal computer
C	I/O Signal Port External battery Port	Connect to I/O equipment(emergency sop, indicator lights, etc.) connect to the battery of the absolute encoder
D	STO Signal Port	STO interface, 2 sets of safety inputs, 1 set of safety feedback
E	Encoder Feedback	From top to bottom are the 1st port to the 4th connecting to motor encoders.
F	External Power Supply	Connect to 3-phase electrical power 220V(RST)
G	Control Power	If there are safety requirements, the controlled source can be independently supplied from L1 & L2 and connect to single-phase AC 220V. The input voltage must be the same as RST.
H	Regenerative Resistor	Two connection methods of SIZEA, SIZEB, optional: (a) Connect the external regenerative resistor to P & B2. (b) The built-in brake is to short circuit B1 and B2SIZE D: external regenerate resistor connects to P and B
I	Machine Power Supply	Connect to motor and supply power. (UVW)

Size (Unit : mm)

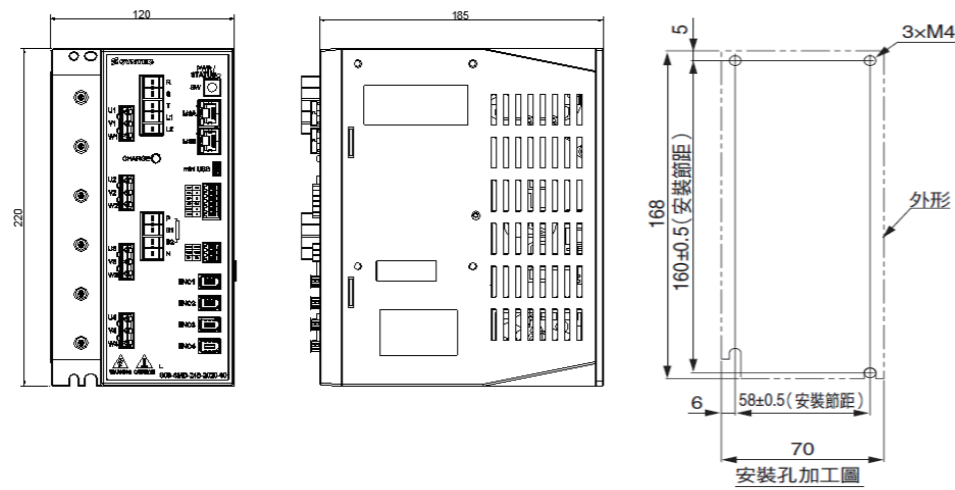
- Single-Axis Drive



Servo Drive/Motor

Size (Unit : mm)

- MINI Multi-Axes Drive

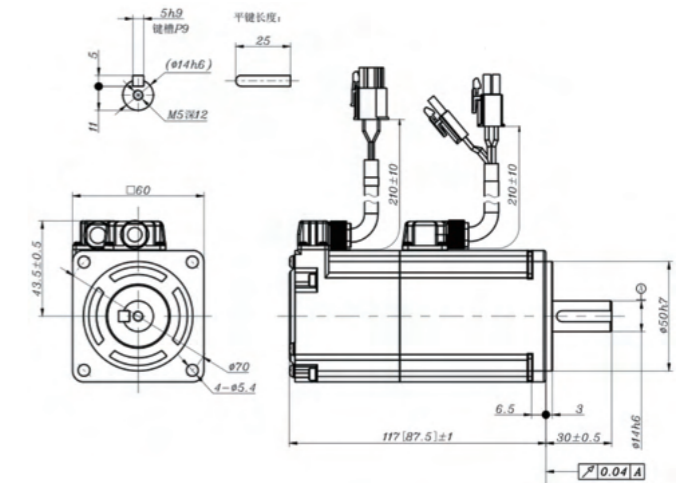


Motor

Item	SPEC					Model	選配件	
	Type	Rated Torque (N.m)	Power (KW)	Rated/Max. Speed (rpm)	IP Rating		Keyway	Brake+Keyway
1	AM1	1.27	0.4	3000/5000	IP65	S08-AM1-50□-H2	√	√
2	AM2	2.39	0.75	3000/5000	IP65	S08-AM2-50□-H2	√	√
3	AM4	4.7	1.0	2000/4000	IP67	S08-AM4-40□-H3	√	√
4	AM7	7.2	1.5	2000/2500	IP67	S08-AM7-25□-H2	√	√
5	AM7	7.12	1.5	2000/3000	IP67	S08-AM7-30□-H3	√	√
6	AM9	9.5	2.0	2000/3000	IP67	S08-AM9-30□-H3	√	√

Axial Motor Spec

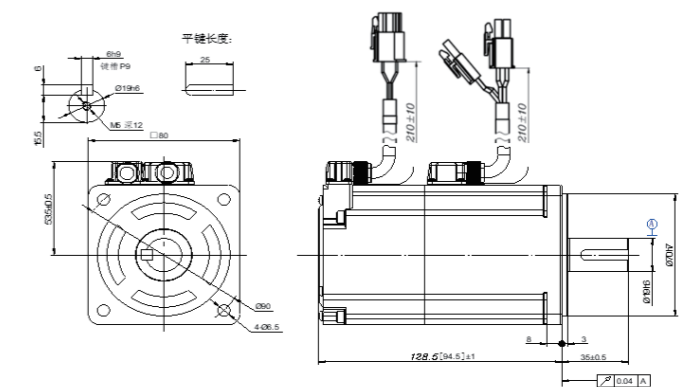
S08-AM1-50□-H2



Flange(mm)	Model	Power(KW)	Lehgth(mm)	Shaft Diameter(mm)	Shaft Spec (mm)			
					Keyway Wiidth	Keyway Length	Keyway Depth	Threaded hole
60	AM1	0.4	87.5(117)	14	5h9	25	3	M5×10

Hint : “()” means with

S08-AM2-50□-H2



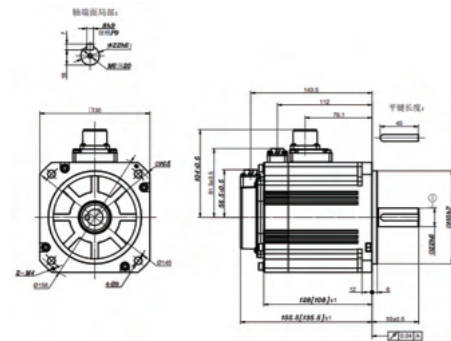
Flange(mm)	Model	Power(KW)	Lehgth(mm)	Shaft Diameter(mm)	Shaft Spec (mm)			
					Keyway Wiidth	Keyway Length	Keyway Depth	Threaded hole
80	AM2	0.75	94.5(128.5)	19	6h9	25	3	M5×10

Hint : “()” means with

Servo Drive/Motor

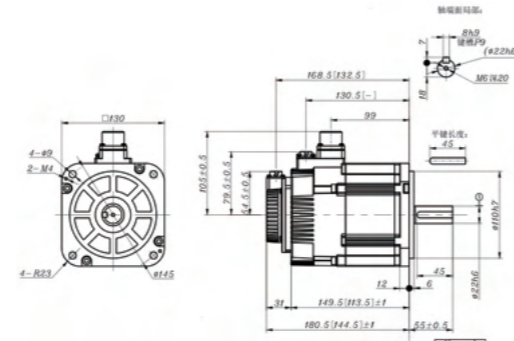
Size (Unit : mm)

S08-AM4-40□-H3



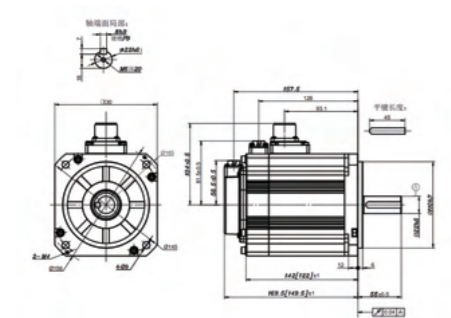
Flange(mm)	Model	Power(KW)	Lehgh(mm)	Shaft Diameter(mm)	Shaft Spec (mm)			
					Keyway Wiidth	8h9	Keyway Length	45
130	AM1	1.0	135.5(155.5)	22	Keyway Depth	3	Threaded hole	M6×20

S08-AM7-25□-H2



Hint : “()” means with

S08-AM7-30□-H3



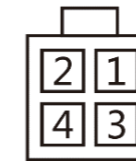
Flange(mm)	Model	Power(KW)	Lehgh(mm)	Shaft Diameter(mm)	Shaft Spec (mm)			
					Keyway Wiidth	8h9	Keyway Length	45
130	AM7-30	1.5	149.5(169.5)	22	Keyway Depth	3	Threaded hole	M6×20

Hint : “()” means with

Axial Motor Cable Connector Definition

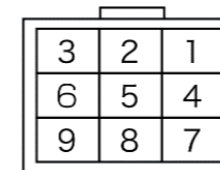
S08-AM1-50□-H2 · S08-AM2-50□-H2

• Power Connector :



Tag	1	2	3	4
Def.	U	V	W	PG

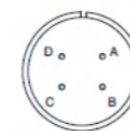
• Encoder Connector :



Tag	1	2	3	4	5
Def.	BAT+	-	SHIELD	SD+	SD-
Tag	6	7	8	9	
Def.	-	Vcc	GND	-	

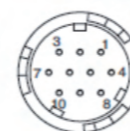
S08-AM4-40□-H3 · S08-AM7-25□-H2 S08-AM7-30□-H3 · S08-AM9-30□-H3

• Power Connector :



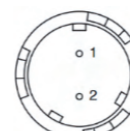
Tag	A	B	C	D
Def.	U	V	W	PG

• Encoder Connector :



Tag	1	2	3	4	5
Def.	Data+	Data-	空	5V	BAT-
Tag	6	7	8	9	10
Def.	BAT+	空	空	0V	PG

• Brake Connector



Tag	1	2
Def.	24V	0V

Practical controller platform features

Breakpoint Return Function

Convenient operation, simple and easy to learn. Smart breakpoint line number selection, ensuring accurate breakpoint coordinates.



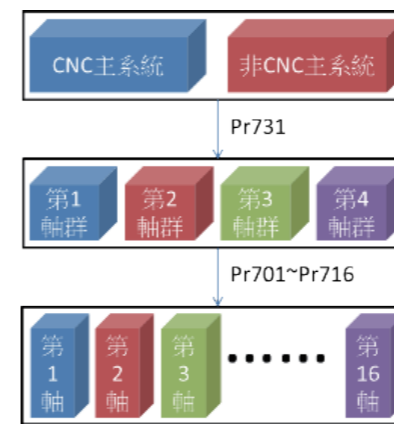
Tool Life Management

Completed functions including tool life count (time and count), tool life count of multi-group path, tool group, life-end alarm setting, tool-in-formations arrangement..etc.

刀號	群組	刀具管理	當前計次	當前距離	彈簧壽命	最大壽命	剩餘壽命	刀具狀態	備註
1	1	計次	0	0.000	19	20		可使用	
2	1	計次	0	0.100	1900	2000	1900	可使用	
3	2	計次	3	0.000	5	6		可使用	
4	2	計次	0	0.000	0.900	1.000	0.200	可使用	
5	5	未管理	0	0.000	0	0	N/A	未管理	
6	6	未管理	0	0.000	0	0	N/A	未管理	
7	7	未管理	0	0.000	0	0	N/A	未管理	
8	8	未管理	0	0.000	0	0	N/A	未管理	
9	9	未管理	0	0.000	0	0	N/A	未管理	
10	10	未管理	0	0.000	0	0	N/A	未管理	
11	11	未管理	0	0.000	0	0	N/A	未管理	
12	12	未管理	0	0.000	0	0	N/A	未管理	

Multi-channel / Axes Group

PLC signal control interface, axis group status, alarm management, and processing information are completely independent.



Gantry Correlation

- rapid correction when positional error between two axes of the gantry
- Support up to four sets of gantry mechanisms.



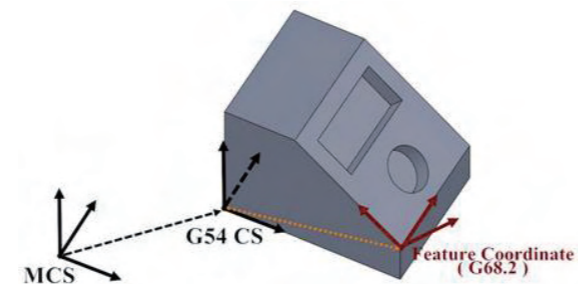
IO Mapping

Function of setting physical IO points based on PLC IO points.

SRI-2-1-1	注解	DI			
0	主軸氣缸1	100	16		N/A
1	主軸氣缸2	101	17		N/A
2	主軸氣缸3	102	18		N/A
3	主軸氣缸4	103	19		N/A
4	噴嘴氣缸	104	20		N/A
5	主軸啟動	105	21		N/A
6	主軸停止	106	22		N/A
7	主軸石鎖	107	23		N/A
8	真空夾1	108	24		N/A
9	真空吸嘴	109	25		N/A
10	應用解鎖	110	26		N/A
11	鎖鎖氣缸	111	27		N/A
12	排氣氣缸	112	28		N/A
13	上料氣缸	113	29		N/A
14	原封氣缸	114	30		N/A
15	刀庫正轉	115	31		N/A

Feature Coordinate

- Intuitive of program NC by rotary absolute coordinate.
- Easy to program NC without using complex CAD/CAM processing.



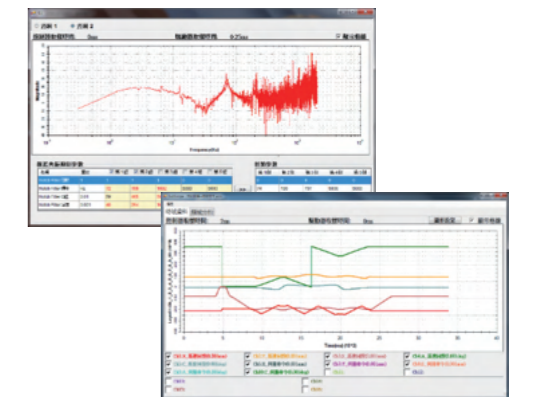
One-click Tuning

Simplified servo tuning procedure; automatic servo tuning for optimal servo parameters by pressing a single key



Analysis Platform

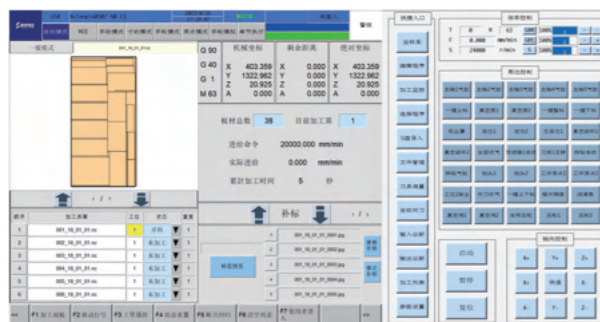
Provides data analysis functions for fast troubleshooting of processing problems.



Smart Machine Maximize manufacturing flexibility

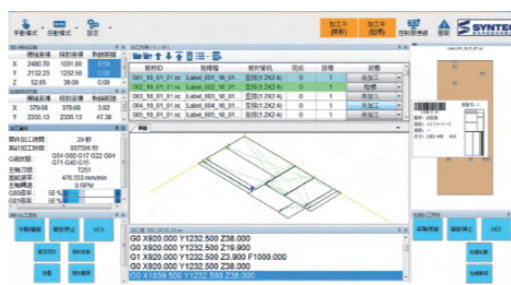
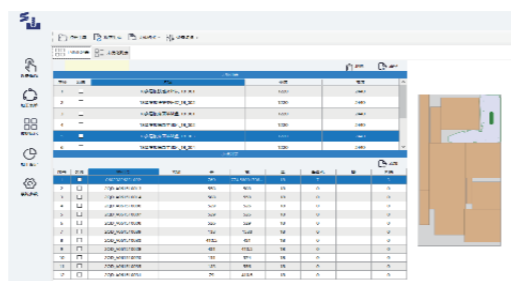
Router/Labeling Machine

- Auto-Label, WorkingList
- Support ZPL Printer
- CAD/CAM, Nesting
- Optimized cutting path



According to the actual production scenarios of customers, we provide flexible configurations and optimized applications.

- Cutting Saw Optimization
- MES data Integration
- On-site panel redo and nesting



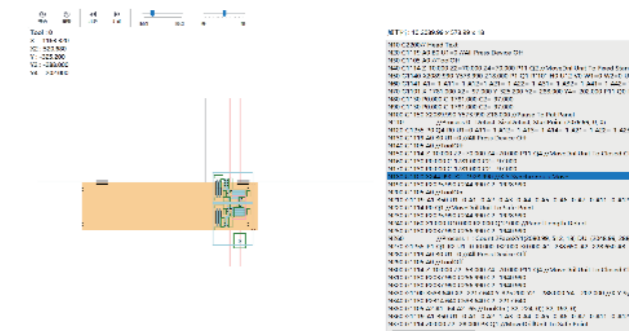
6-Side Drill

User-friendly high-performance CAD/CAM



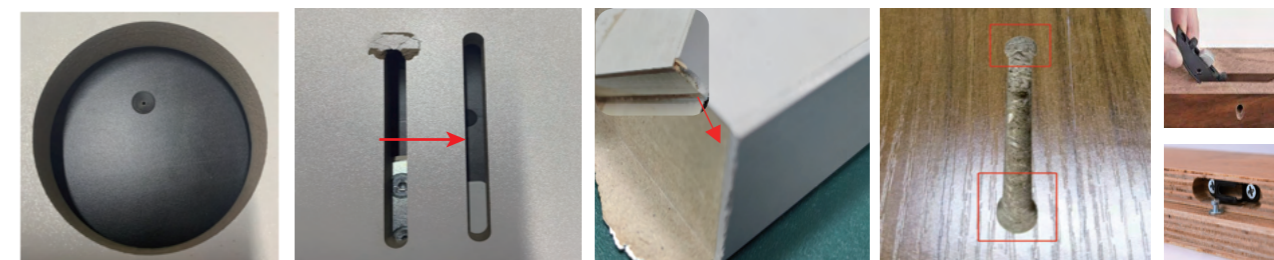
Visualization of Mechanism Parameters and Process Simulation

- Open, Scalable
- High-speed, High-precision
- Decades of motion control technology Support
- international data format standards, rapid deployment. (mpr, xml, xml...)



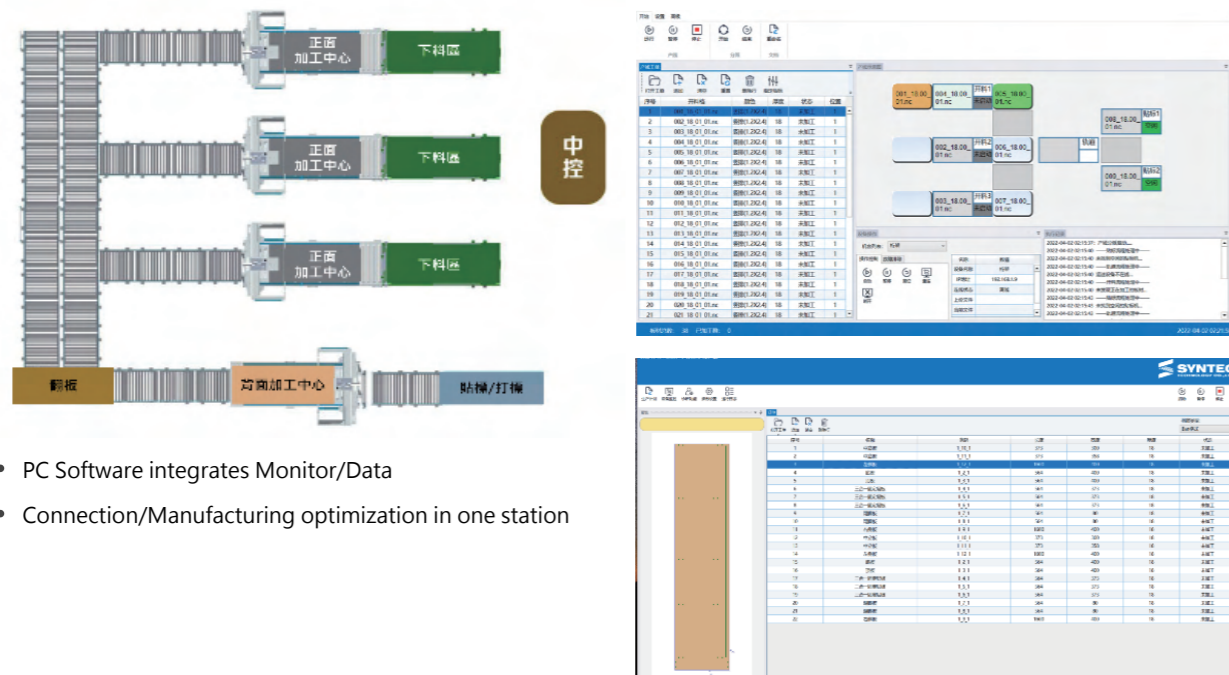
High-Performance, High-Quality

- High-precision path decisions to
- eliminate surface skinning,
- Prevent edge banding from bursting.
- Ensure the quality of finished products.



Flexible Manufacturing Cell

Central Control



- PC Software integrates Monitor/Data
- Connection/Manufacturing optimization in one station

Open Data/Remote Support

- Real-time
- Process info.
- Tool info.

MES/ERP

RESTful API



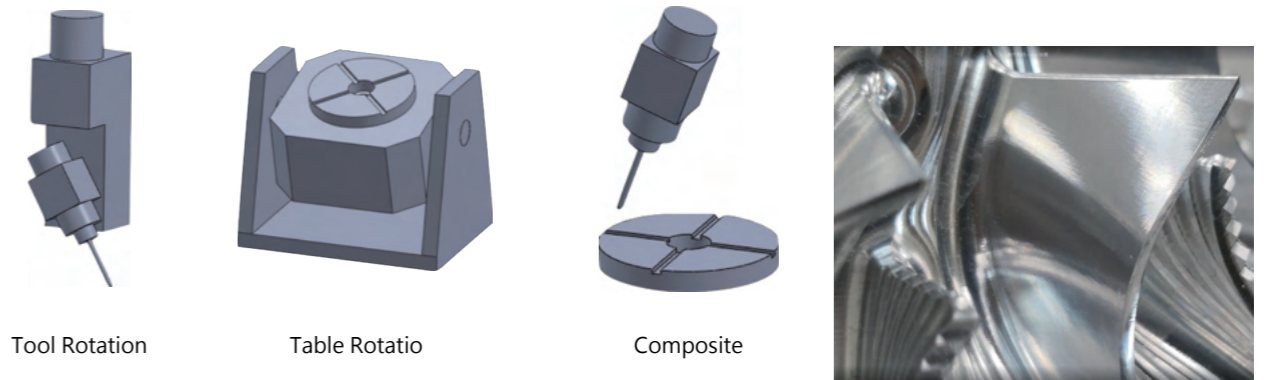
Built-in DataBase



SyntecRemoteSupport Tool

Five-Axes Control

Support Several types correction



Tool Rotation

Table Rotatio

Composite

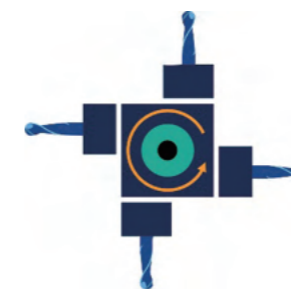


Complete Hardware

- Back-End 10" / 15" Standard Panel / Touch Panel
- Suited for all manipulation demand

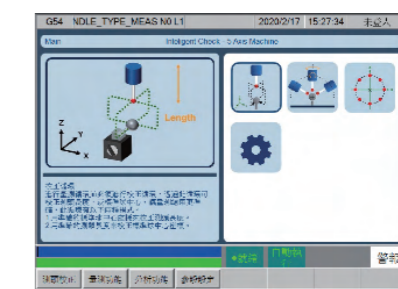


Rotation Tool Center Point Control (RTCP)



Support Multi-Chain RTCP

- Cross-Type Multi-Head Spindle



Machine Tool Measurement

- SYNTEC / HEXAGON / ISHIN

Controller Model Spec

		O~Standard Δ~Optional --~Not Available			
Class	Item	FC-63WA	FC-630WA	*FC-60WB	*FC-600WB
Servo	Protocal	M3/EtherCAT	M3/EtherCAT	M3/EtherCAT	M3/EtherCAT
Software	Standard Axes(Optional)	4(6)	7(18)	4(6)	7(18)
	Max. Axes Group	4	4	4	4
	Max. Spindle	4	10	4	10
	Tool / Coordinate Number	200/100	200/100	200/100	200/100
	BPT	1000	3000	1000	3000
Hardware	RJ-45	1	1	1	1
	RS-485	1	1	1	1
	USB	2	2	2	2
	I/O	SRI	SRI	SRI	SRI
	DA/MPG	2/1	2/1	2/1	2/1
	Monotor	VGA	VGA	VGA	VGA
	DiskC/DiskA	8G/4G	8G/4G	4G/4G	4G/4G
Function Optional	OP5-PC-CNC	O	O	O	O
	OP12-RTCP	-	-	-	-
	OP16-SYNTEC Vision	Δ	Δ	Δ	Δ
	OP27-Multi-5-Axes Chain	-	-	-	-
	OP29-4Axes RTCP	Δ	Δ	Δ	Δ
	OP30-5Axes	O	O	O	O
	OP32-ROT	O	O	O	O
	OP36-CADCAM	Δ	Δ	Δ	Δ
	OP37-WoodAux	Δ	Δ	Δ	Δ
	OP43-LabelCutFunction	Δ	Δ	Δ	Δ
	OP51-OPCUA	Δ	Δ	Δ	Δ

		O~Standard Δ~Optional --~Not Available			
Class	Item	FC-63WA	FC-630WA	*FC-60WB	*FC-600WB
Servo	Protocal	M3/EtherCAT	M3/EtherCAT	M3/EtherCAT	M3/EtherCAT
Function Optional	OP57-WoodCentral	Δ	Δ	Δ	Δ
	OP59-Tangential Control	Δ	Δ	Δ	Δ
	OP60- DataBase	Δ	Δ	-	-
	PLC / PTP Axes	O/-	O	O/-	O
	Multi-Main System Group	O	O	O	O
	Tool Length/Diad. Comp.	O/-	O	O/-	O
	VNC server	O	O	-	-
	Remote Support	O	O	-	-
	ZPL printer	O	O	O	O
	Panel Redo/Nest	O	O	-	-

Controller Model Spec

		O~Standard Δ~Optional --~Not Available				
Class	Item	FC-60PA	*FC-60CA	*FC-60CB	FC-60WA	FC-600WA
Servo	Protocal	M3/EtherCAT	Pulse	M3/EtherCAT	M3/EtherCAT	M3/EtherCAT
Software	Standard Axes(Optional)	3(18)	4	4(5)	7	9(18)
	Max. Axes Group	2	4	4	4	4
	Max. Spindle	2	4	4	4	4
	Tool / Coordinate Number	-/32	32/32	96/32	96/100	200/100
	BPT	600	600	600	1000	3000
Hardware	RJ-45	1	1	1	1	1
	RS-485	1	1	1	1	1
	USB	2	2	2	2	2
	I/O	SRI	SRI	SRI	SRI	SRI
	DA/MPG	2/1	-/1	2/1	2/1	2/1
	Monotor	VGA	VGA	VGA	VGA	VGA
	DiskC/DiskA	256M/4G	256M/4G	256M/4G	256M/4G	4G/4G
Function Optional	OP5-PC-CNC	O	Δ	O	O	O
	OP12-RTCP	-	-	-	-	-
	OP16-SYNTEC Vision	Δ	Δ	Δ	Δ	Δ
	OP27-Multi-5-Axes Chain	-	-	-	-	-
	OP29-4Axes RTCP	-	-	-	Δ	Δ
	OP30-5Axes	-	-	-	-	O
	OP32-ROT	-	O	O	O	O
	OP36-CADCAM	-	-	-	Δ	Δ
	OP37-WoodAux	Δ	Δ	Δ	Δ	Δ
	OP43-LabelCutFunction	O	Δ	Δ	Δ	Δ
OP51-OPCUA	Δ	Δ	Δ	Δ	Δ	

		O~Standard Δ~Optional --~Not Available				
Class	Item	FC-60PA	*FC-60CA	*FC-60CB	FC-60WA	FC-600WA
Servo	Protocal	M3/EtherCAT	Pulse	M3/EtherCAT	M3/EtherCAT	M3/EtherCAT
Function Optiona	OP57-WoodCentral	Δ	Δ	Δ	Δ	Δ
	OP59-Tangential Control	-	Δ	Δ	Δ	Δ
	OP60- DataBase	-	-	-	-	-
	PLC / PTP Axes	O/-	-	O/-	O/-	O
	Multi-Main System Group	-	-	-	O	O
	Tool Length/Diad. Comp.	-	O/-	O/-	O	O
	VNC server	-	-	-	-	-
	Remote Support	-	-	-	-	-
	ZPL printer	O	O	O	O	O
Panel Redo/Nest	-	-	-	-	-	

Controller Model Spec

O~Standard Δ~Optional ~Not Available					
Class	Item	*60W-E	60PE	610WA-H/610WB-H	610MA-E5
伺服控制	Protocal	M3/EtherCAT	M3/EtherCAT	M3/EtherCAT	M3/EtherCAT
Software	Standard Axes(Optional)	4(6)	4(18)	8(9)/12(18)	8(18)
	Max. Axes Group	4	2	4	4
	Max. Spindle	5	0	6	6
	Tool / Coordinate Number	96/32	-/32	200/100	200/100
	BPT	600	600	3000	2000
Hardware	RJ-45	1	1	1	1
	RS-485	1	1	1	1
	USB	2	2	2	2
	I/O	32/32	32/32	32/32	32/32
	DA/MPG	2/1	2/1	2/1	2/1
	Monotor	8" Standard	10.4" Touch	VGA	10.4" /15" Standard/Touch/VGA
	DiskC/DiskA	256M/4G	4G/4G	4G/4G	4G/4G
Function Optional	OP5-PC-CNC	O	O	O	O
	OP12-RTCP	-	-	-	Δ
	OP16-SYNTEC Vision	Δ	Δ	Δ	Δ
	OP27-Multi-5-Axes Chain	-	-	-	Δ
	OP29-4Axes RTCP	Δ	-	Δ	O
	OP30-5Axes	-	-	Δ	O
	OP32-ROT	O	-	O	O
	OP36-CADCAM	-	Δ	Δ	-
	OP37-WoodAux	Δ	Δ	Δ	-
	OP43-LabelCutFunction	Δ	O	O	-
	OP51-OPCUA	Δ	Δ	Δ	Δ

O~Standard Δ~Optional ~Not Available					
Class	Item	*60W-E	60PE	610WA-H/610WB-H	610MA-E5
Servo	Protocal	M3/EtherCAT	M3/EtherCAT	M3/EtherCAT	M3/EtherCAT
Function Optional	OP57-WoodCentral	Δ	Δ	Δ	-
	OP59-Tangential Control	Δ	-	-	Δ
	OP60- DataBase	-	-	-	-
	PLC / PTP Axes	O/-	O/-	O	O
	Multi-Main System Group	O	-	O	O
	Tool Length/Diad. Comp.	O	-	O	O
	VNC server	-	-	-	-
	Remote Support	-	-	-	-
	ZPL printer	O	O	O	-
Panel Redo/Nest	-	-	-	-	

