

CNC Controlling System  
Drive Solution  
Industrial Machine Solution  
Wisdom Around



# G-Series Controller

Glass Grinding and High-Speed Spindle Milling Solution

Trusted technical service

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## 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.



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Brand new design-Next Generation Controller	<u>01</u>
Introduction of 8GA controller	<u>03</u>
Introduction of 23GA controller	<u>05</u>
Serial communication interface: achieve high-precision machining	<u>07</u>
High Smoothness Contour Control : enhance precision and path smoothing	<u>08</u>
Special screen and function	<u>09</u>
Intelligent Peripheral Products	<u>11</u>
Specification	<u>12</u>

# 01 Brand new design-Next Generation Controller



- Fully-flat screen with attractive appearance
- 10” screen controller is compatible to classic model 8” screen controller
- Improves the reliability and stability by enhances the oil-proofness, dust-proofness, and heat dissipation
- Modular hardware design and auto backup system that could improve maintenance efficiency and make it easy to repair
- Dual-core, Interpolation time 1ms, enhance performance and FPS

High-efficiency New Generation Product

01

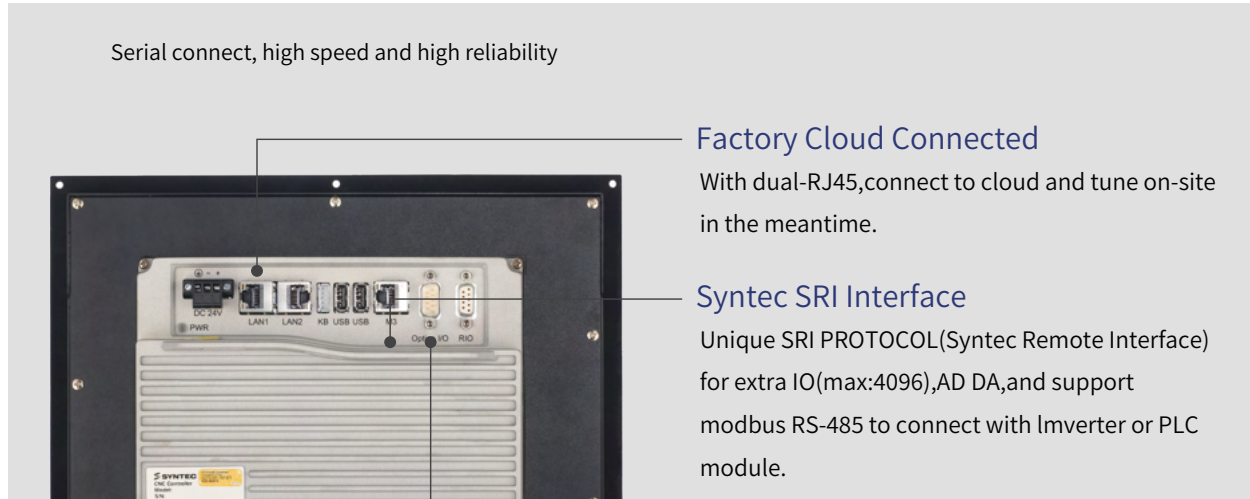
Indicator	Feature Introduction
FPS	ENHANCE 10 TO 66%
Boot Time	SPEED UP 47%
Block Processing Time	INCREASE 4 TO 10 TIMES. BPT 4000 IN 2 PATH AND 12 AXES SITUATION.

Powerful and Diversified Communication

02

02

Serial connect, high speed and high reliability



Factory Cloud Connected

With dual-RJ45,connect to cloud and tune on-site in the meantime.

Syntec SRI Interface

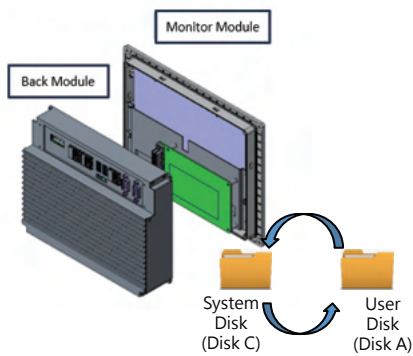
Unique SRI PROTOCOL(Syntec Remote Interface) for extra IO(max:4096),AD DA,and support modbus RS-485 to connect with Inverter or PLC module.

Universal CNC controller

Support various serial communication interfaces,such as Mechatrolink-III,EtherCAT and



Special design for 24-hour factory 03



High reliability and considered repairing design can solve controller breakdown and restore system data immediately by changing module.

- Module design to remove damaged module only.
- AB backup to restore data quickly after repairing.

Best Partner: Syntec Servo Products 05



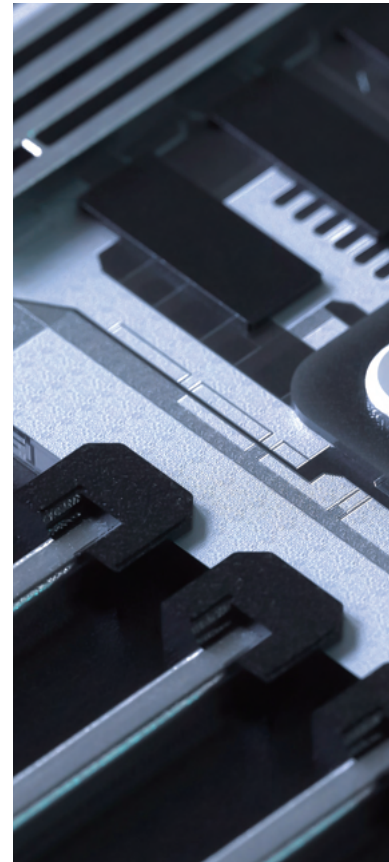
Diverse servo products for tool machine.

- Collaborated with well-known manufacturers, offer diverse servo products.
- Professional tuning and service, Syntec is your best partner.

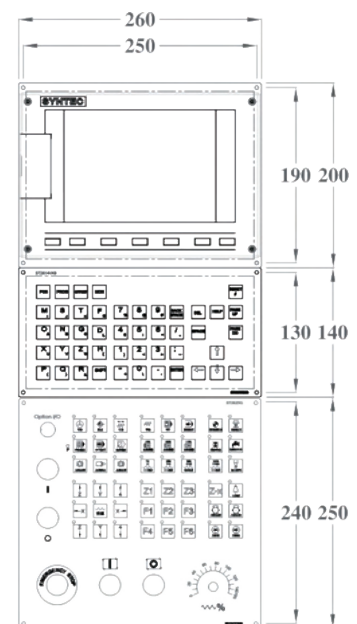
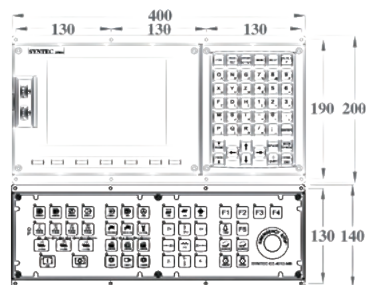
## Introduction of 8GA controller

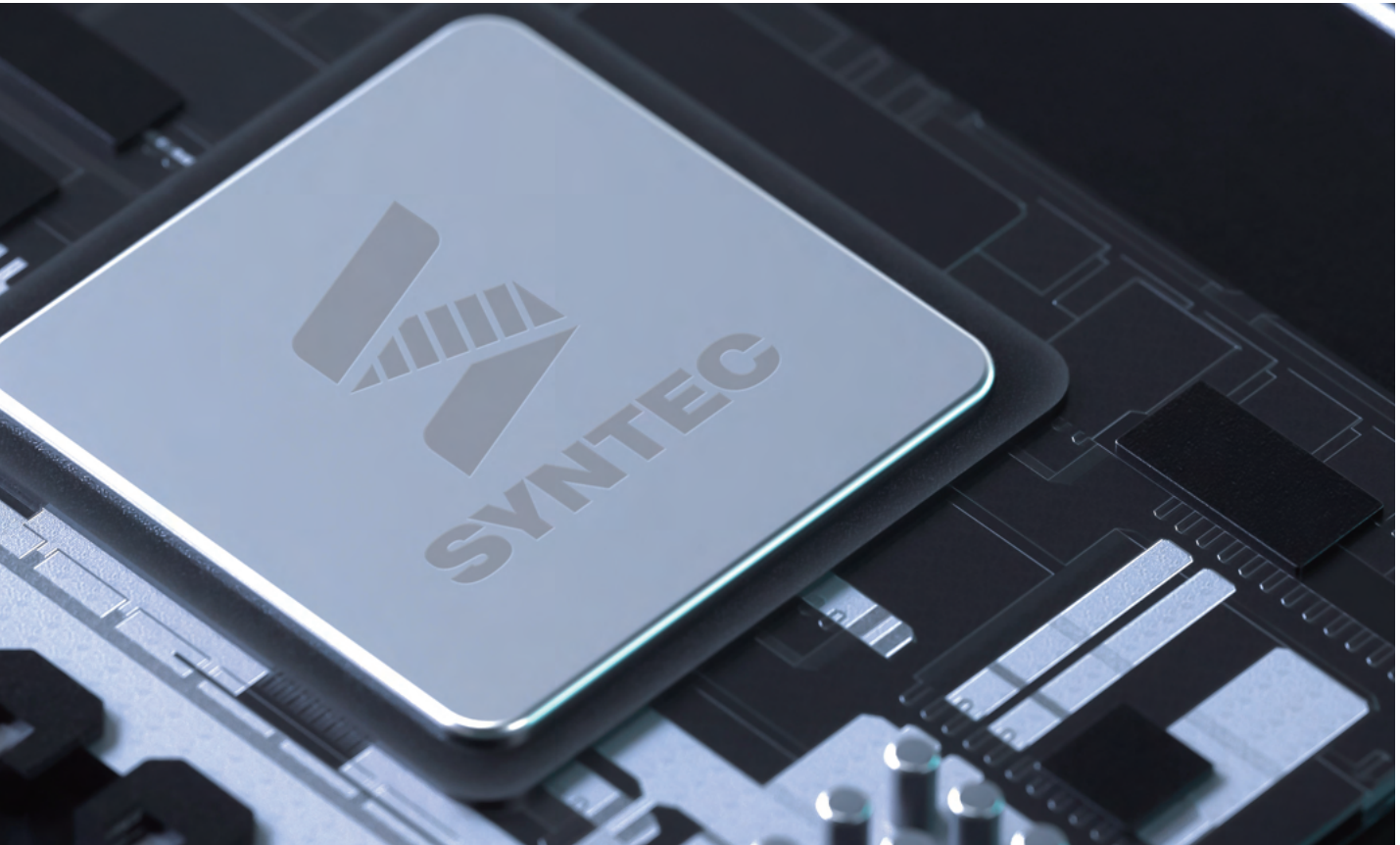


- Axis number: 4 axes for standard, 6 axes for max.
- Application: Single head, single head with 4th axis, dual-head glass grinding and high-speed spindle milling machine
- Servo communication: Mechatrolink-III, EtherCAT
- High precision control: Syntec Multi-axis servo drive with high-resolution axis motor
- High efficiency: High Smoothness Contour Control(HSCC)
- Special purpose machine: Special screen and function
- Hardware: 8.4" screen, 4 USB, 2 RJ-45

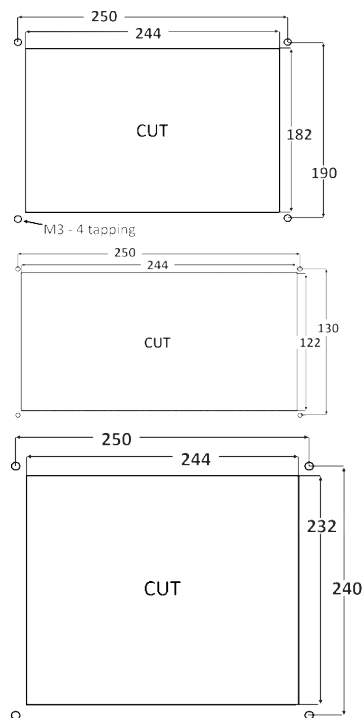
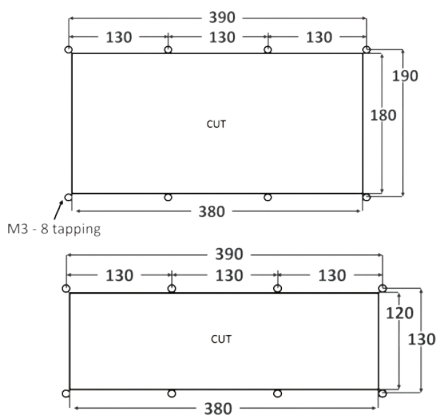


### Panel Layout





### Tapping Size

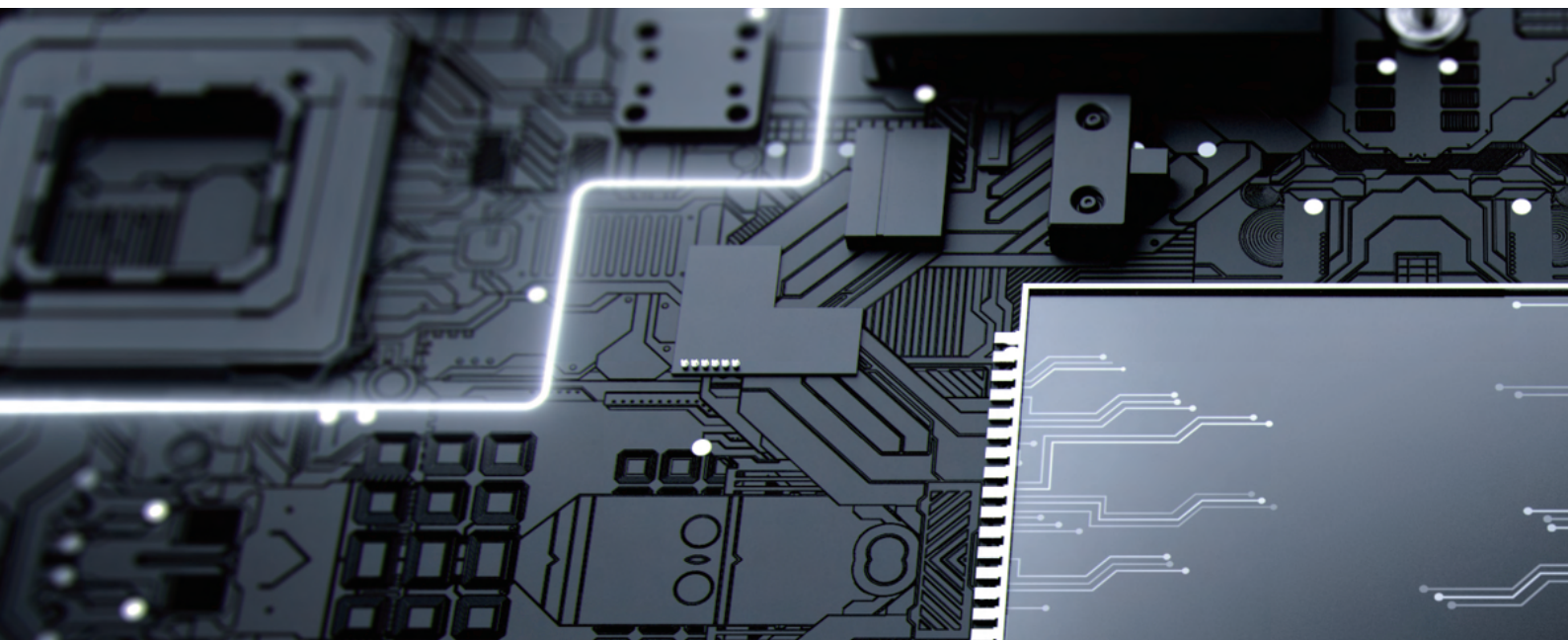


## Introduction of 23GA controller

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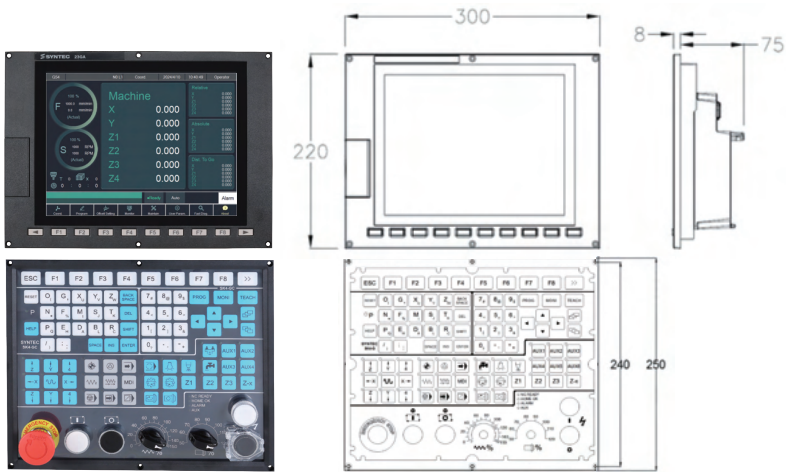
### Brand new design, new generation controller

- Axis number: 8 axes for standard, 18 axes for max.
- Servo communication: Mechatrolink-III, EtherCAT
- High efficiency: High Smoothness Contour Control(HSCC)
- Special purpose machine: Special screen and function
- Hardware: 10.4" and 15" screen, 4 USB, 2 RJ-45

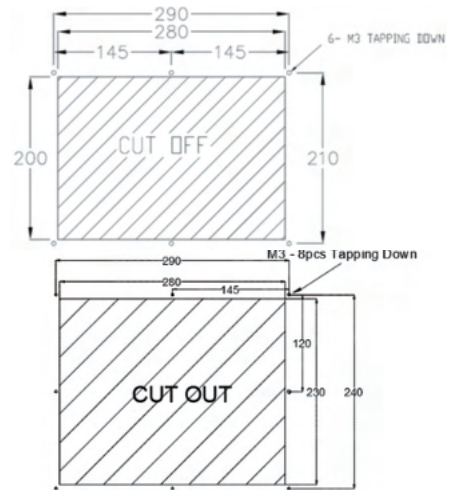




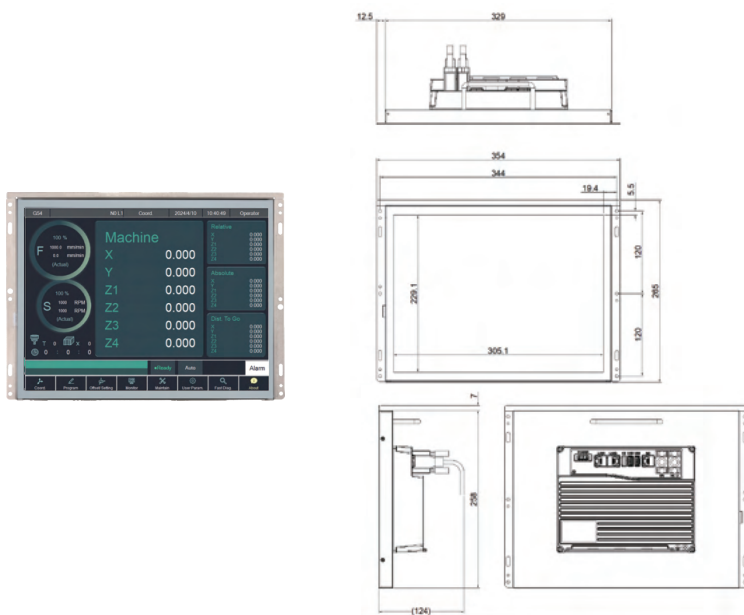
### 10.4" Panel Layout



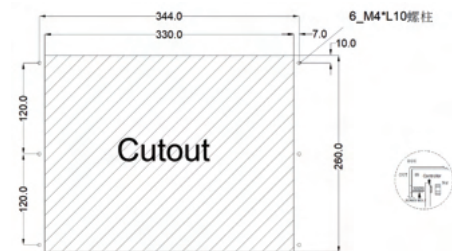
### Tapping Size



### 15" Panel Combination



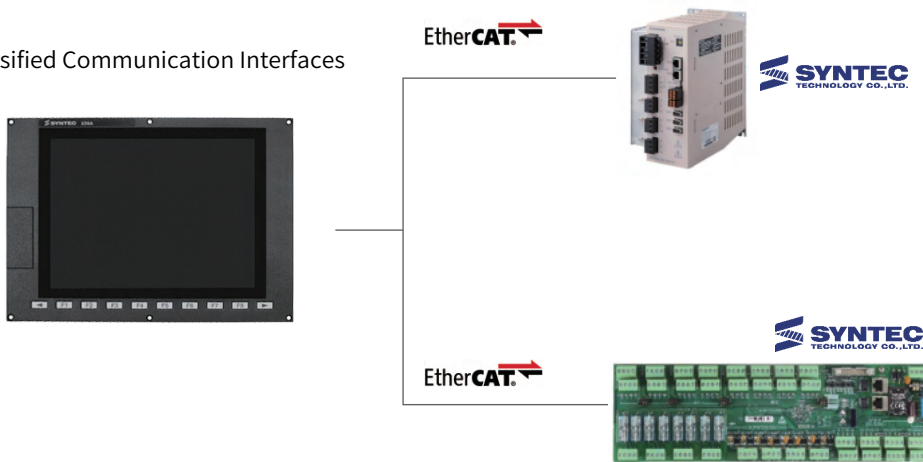
### Tapping Size



# Serial communication interface: achieve high-precision machining

G series controller supports Syntec ECAT/M3 multi-axis servo drive and also support other ECAT/M3 drive. Servo communication enhances machining efficiency and improves path smoothing. Using Syntec ETB IO module with easy -wiring and installation , it can increase the reliability. Vertical integration with host controller and drive. User-friendly tuning with Syntec Analytics.

Diversified Communication Interfaces



## Perfect integration with host controller and drive



Detailed servo hardware and software information



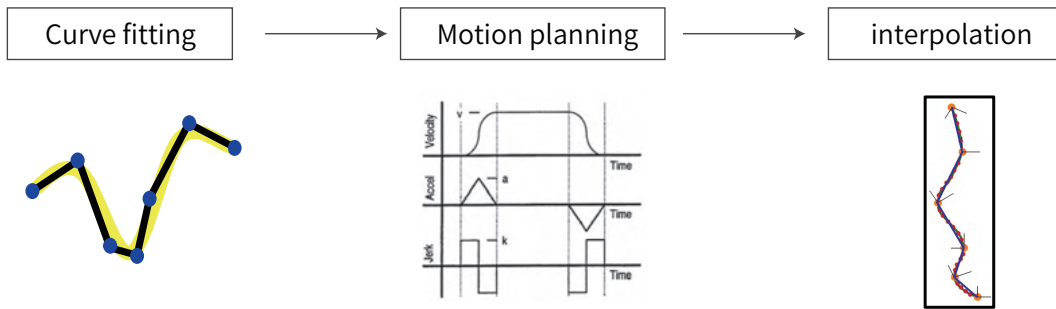
Easily adjust servo parameters by controller



User-friendly tuning by controller

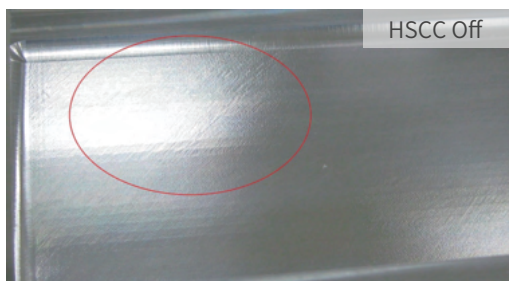
# High Smoothness Contour Control : enhance precision and path smoothing

High smoothness contour control (HSCC) : enhance precision, reduce vibration and tool marks, improve efficiency.



## HSCC machining example

HSCC function : convert discontinuous CAM to continuous path, reduce tool marks, improve quality and efficiency.



## Customer Applications



A. Test sample



B. Cellphone mid-frame engraving



C. Button chamfer



D. Camera-frame chamfer

# Special screen and function

## Multi-Z Tool Life Management

ID	Group	Management	Cur. Count	Cur. Time	Warning Life	Max. Life	Remaining Life	State
1	1	Count	6	00:00:00	5	10	4	Warning
2	2	Overrange	0	00:00:00	0	0	N/A	Unmanaged
3	3	Time	0	00:11:40	00:13:20	00:16:40	00:05:00	Available
4	4	Overrange	0	00:00:00	0	0	N/A	Unmanaged
5	5	Overrange	0	00:00:00	0	0	N/A	Unmanaged
6	6	Time	0	08:20:00	24:41:28	27:45:39	19:25:39	Available
7	7	Overrange	0	00:00:00	0	0	N/A	Unmanaged
8	8	Overrange	0	00:00:00	0	0	N/A	Unmanaged
9	9	Count	100	00:00:00	80	100	0	Broken
10	10	Overrange	0	00:00:00	0	0	N/A	Unmanaged
11	11	Overrange	0	00:00:00	0	0	N/A	Unmanaged
12	12	Overrange	0	00:00:00	0	0	N/A	Unmanaged

- Improve UI: Clear tool information and easy setting.
- Diverse Functions: Support life count times and life count time, tool arrangement, alarm setting.

## Multi-Z Auto-tool measurement and Broken-detection Function

The screenshot shows the 'Auto Tool Function' interface with several sections:
 

- User Setting:** Edit Mode (On), Z Safety Point (0.000), Z Starting Point (0.000).
- Measuring Setting:** Feedrate (40.000), WorkPiece No. (1).
- Custom Setting:** Z1 CouplingFlag (0), Z1 Skip Source (0), Air-Blow On (M), Stroke-LM On (M), Tool-MG On (M).
- Z Lowest Point:** Z1 (-100.000), Z2 (-100.000), Z3 (-100.000), Z4 (-100.000).
- Machine/Relative/WorkPiece:** Tables showing values for X, Y, Z1, Z2, Z3, Z4 axes.

- Fast tool measuring to enhance efficiency.
- G31 support multi-skip signals.
- Compare tool length when machining to detect broken.

## Array Processing and Single Offset Compensation

The screenshot shows the 'Array Processing and Single Offset Compensation' screen with input fields for:
 

- WorkpieceNumber (NO L1 \$1, NO L2 \$2)
- Number of workpieces and machining dir (Col 2, Row 3, Col 3, Row 4)
- Jig gap (X, Y) for First and Gro. machining.
- Functions of Array machining and Compensation (Compensal, Single, First Array machining, Gro. Compensal).

- Produce repeat NC without CAD/CAM software.
- Workpiece size compensation via X or Y or both direction.

## New Friction Compensation

The screenshot shows the 'New Friction Compensation' screen with:
 

- Setting:** Axis Group (1), First Axis (X), Second Axis (Y), Dir (G02), Workpiece (G54), Radius (100.000), Feedrate (1000.000), Mode (Learning).
- Parameter:** Driver Param (X, Y), Vel Gain (400, 400), Vel Integral (3979, 3979), Pos. Gain (400, 400).
- Result:** Resolution (0.500000 um/deg), Roundness (1.172953 um/deg), Avg. Radius (49.999721 mm/deg).
- Program:** SIMACRO G71 G94 G90 G54; G17; G00 X50.000 G04 X1.0;
- Comparison:** 'Before tuning' and 'After tuning' images of a machined part showing improved circularity.

- High response and better compensation via new algorithm.
- Easy-use via auto tuning
- Suitable various machining conditions via single set compensate parameter

### Multi-path independent function



- Multi-path independent workpiece offset
- Multi-path independent alarm and mode
- Improve diagnosis and operation

### Multi-path M code and IO diagnosis



- Easily check M code and IO action between different path
- Function can be edited through XML file, and can import and export XML file
- Diverse language development



### GlassGrind Tool Magazine Table

- Total magazine solution for GlassGrind, and make all magazine information clearly
- High flexibility customization via setting parameters

## Complete Development Tools

Syntec offers an open platform which helps user develop HMI and MACRO. Customer can design different operation styles depend on different industrial requirement. Vendor can also develop diverse functions to integrate with controller.

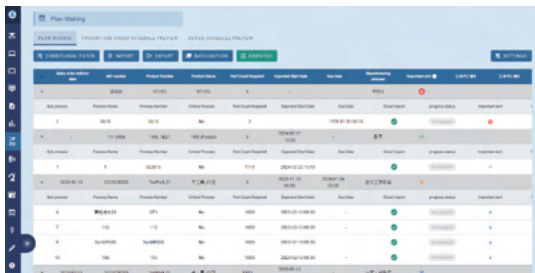


Open Human-Machine Interface Editing Software - eHMI



Diverse Language Development

# Intelligent Peripheral Products



Integration between controller and web cloud for work record



Integration between controller and All-in-one to meet the demands of pick and place



Syntec G series controller can highly integrate diverse applications



Integration between controller and sensor to measure workpiece size



Integration between controller and vision system to compensate workpiece position

# Specification

Category	Items	Units	Remark	Series					
				6 Series	7 Series	8 Series	21Series	22Series	23Series
				GA-E	GA	GA	GA-E	GA	GA
Product Specification	Max. Controlled Paths	Axis		2	2	2	4	4	4
	Max. PLC Controlled Paths	Axis		1	1	1	3	3	3
	Standard Axis	Axis		4	4	4	6	6	8
	Max. Axis (Optional)	Axis		6	6	6	18	18	18
	Max. Spindle	Axis		6	6	6	10	10	10
	Max. Simultaneous Axis Control	Axis		4	4	4	4	4	4
	Min. Control -mm			0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	Max. number of program coordinate	Set		32	32	32	100	100	100
	Max. Number of Table Tools	Set		96	96	96	200	200	200
	Multi-Channel Function Group	Set		4	4	4	4	4	4
Block Processing Time			1200	1200	2000	4000	4000	4000	
Hardware Specification	Storage(DISKA)	GB		4	4	4	4	4	4
	I/O	ECATIO		—	0	0	—	0	0
		RIO	Set		64/64	64/64	64/64	64/64	64/64
		SRI			0	0	0	0	0
		Direct	Set		32/32	—	—	32/32	—
	DA	Set		2	—	—	2	—	
	Monitor	Inch		8	8	8	10.4	10.4/15	10.4/15
	CF Card	Set	Front side	—	—	—	—	—	—
	USB	Set		2	2	2	2	2	2
	CFCard	Set	Back side	—	—	—	—	—	—
	RJ-45	Set		1	2	2	1	2	2
	VGAOutput	Set		—	—	—	—	—	—
	PS/2	Set		—	—	—	—	—	—
	RS-232	Set		—	—	—	—	—	—
	RS-422	Set		—	—	—	—	—	—
RS-485	Set	1		1	1	1	1	1	
USB	Set	—	2	2	—	2	2		
SRI	Set	1	1	1	1	1	1		
Servo Control	Pulse Train (A/B Phase)			—	—	—	—	—	—
	Pulse Train (CW/CCW)			—	—	—	—	—	—
	mechatrolink II			—	—	—	—	—	—
	mechatrolink III			0	0	0	0	0	0
	EtherCAT			0	0	0	0	0	0
RTEX			—	—	—	—	—	—	
Compensation	Backlash Compensation			0	0	0	0	0	0
	Pitch Error Compensation			0	0	0	0	0	0
	Angular Error Compensation			0	0	0	0	0	0
	Temperature Error Compensation			0	0	0	0	0	0
	2 Dimension Error Compensation			—	—	—	0	0	0
Operation	MPG Simulation			0	0	0	0	0	0
	Dry Run			0	0	0	0	0	0
	Optional Stop			0	0	0	0	0	0
	Single Block			0	0	0	0	0	0

Remark ○: standard function, Δ: optional function, -: Not available function

# Specification

Category	Items	Units	Remark	Series					
				6 Series	7 Series	8 Series	21Series	22Series	23Series
				GA-E	GA	GA	GA-E	GA	GA
Operation	Virtual MPG			○	○	○	○	○	○
	Restart at Feedhold			○	○	○	○	○	○
	Restart at Break Point			○	○	○	○	○	○
	Tool Return			○	○	○	○	○	○
	Fixture Offsets			○	○	○	○	○	○
	MPG Offsets			○	○	○	○	○	○
Programming	Optional Skip	Skip blocks starting with"/"		○	○	○	○	○	○
	B-stop			○	○	○	○	○	○
	Absolute Zero Point Coordinate	G92/G92.1		○	○	○	○	○	○
	Interrupt Macro	M96/M97		○	○	○	○	○	○
	M198 call Subroutines			○	○	○	○	○	○
	Expandable G Code			○	○	○	○	○	○
HSHP	Constant Jerk Control			○	○	○	○	○	○
	Multiblocks S-curve motion plan			—	—	—	○	○	○
	Auto declaration in Corner			○	○	○	○	○	○
	Speed Limit for Round Radius			○	○	○	○	○	○
	Multiple Sets of HSHP Parameters			○	○	○	○	○	○
	Quick Parameter Setup			—	—	—	—	—	—
	SPA Feature			○	○	○	○	○	○
	Virtual Radius Function (for Rotary Axis)			○	○	○	○	○	○
	HSHP Control Mode I (G05.1 Q1)	G05.1Q1		○	○	○	○	○	○
	HSHP Control Mode II (G05 P10000)	HPCC		○	○	○	○	○	○
NURBS Interpolation Ability			○	○	○	○	○	○	
Tool Management	Auto Tool Setting			○	○	○	○	○	○
	Auto Tool Management	Works with Renishaw hardware only		○	○	○	○	○	○
	Tool Life Management	Screen(Standard)/Function(Customized)		○	○	○	○	○	○
Facilitating Functions	Machine Lock (R bit)			○	○	○	○	○	○
	Software Limit			○	○	○	○	○	○
	Spindle Speed Arrival Check			○	○	○	○	○	○
	Axis Synchronize Feature			○	○	○	○	○	○
	Dynamic Axis Synchronize Feature			○	○	○	○	○	○
	Feedback Synchronize Feature			○	○	○	○	○	○
	Rapid Retraction for Rigid Tapping			—	—	—	○	○	○
	Virtual Axis Feature			○	○	○	○	○	○
	Axis Change Feature			○	○	○	○	○	○
	Axial Torque Limit			○	○	○	○	○	○
	Serial Bus Setting Feature(CNC Axis)			○	○	○	○	○	○
	Driver Information Display(CNC Axis)			○	○	○	○	○	○
	Spindle Application Feature(CNC Axis)			○	○	○	○	○	○
	Serial Bus PLC Axis			○	○	○	○	○	○
	ROT Element			○	○	○	○	○	○
Dipole Front and Back System			—	—	—	○	○	○	

Remark ○: standard function, Δ: optional function, -: Not available function



Category	Items	Units	Remark	Series					
				6 Series	7 Series	8 Series	21Series	22Series	23Series
				GA-E	GA	GA	GA-E	GA	GA
Operation	Data Backup Recovery	Maker Backup		○	○	○	○	○	○
	Customized Opening Screen			○	○	○	○	○	○
	My Favorites	Only eight key system supports		—	—	—	○	○	○
	Project Protection Feature			○	○	○	○	○	○
	Limit Access Manager			○	○	○	○	○	○
	RemoteAP Monitor			○	○	○	○	○	○
Program Edit	Background Edit			○	○	○	○	○	○
	Edit Protection			○	○	○	○	○	○
	Immediate Grammar Check			○	○	○	○	○	○
PLC	PLC Diagnosis Feature(FORCE I Point)			○	○	○	○	○	○
Data Transfer	NETWORK			○	○	○	○	○	○
	FTP			○	○	○	○	○	○
	RS-485			○	○	○	○	○	○
	DNC(Network)			○	○	○	○	○	○
	DNC(USB)			○	○	○	○	○	○
Information Display	Operation CV Display			○	○	○	○	○	○
	Graphic Simulation			○	○	○	○	○	○
	Partial Graphic Simulation			○	○	○	○	○	○
	Dynamic Multi-Language Switch			○	○	○	○	○	○
Inclined Plane	Feature Coordinate(Inclined Plane Process)	G68.2, G68.3		—	—	—	△	△	△
	Feature Coordinate Teach			—	—	—	△	△	△
5 axis feature	5 Axis RTCP	G43.4		—	—	—	—	—	—
	Smooth TCP			—	—	—	—	—	—
G code command	High Precision Locus Control Mode	G05P10000		○	○	○	○	○	○
	Smoothing Path Mode	G05.1		○	○	○	○	○	○
	NURBS Interpolation	G06.2		○	○	○	○	○	○
	Thread Cutting	G33		○	○	○	○	○	○
	Auto Tool Measurement	G37		○	○	○	○	○	○
	Tool of Offsets	G45~G48		○	○	○	○	○	○
	High Speed Peck Drilling Cycle	G73		○	○	○	○	○	○
	Left Handed Tapping	G74		—	—	—	○	○	○
	High Precision Boring Cycle	G76		○	○	○	○	○	○
	Drilling cycling	G81		○	○	○	○	○	○
	Chopping	G81.1		—	—	—	○	○	○
	Bottom Feed Hold Drilling Cycle	G82		○	○	○	○	○	○
	Peck Drilling Cycle	G83		○	○	○	○	○	○
	Tapping Cycle	G84		—	—	—	○	○	○
	Boring Cycle	G85		○	○	○	○	○	○
	High Speed Boring Cycle	G86		○	○	○	○	○	○
	Back Boring Cycle	G87		○	○	○	○	○	○
	Semi Automatic Finishing Boring Cycle	G88		○	○	○	○	○	○
Bottom Feed Hold Boring Cycle	G89		○	○	○	○	○	○	
Multi-Group HSHP Parameter	G120.1			○	○	○	○	○	○

Remark ○: standard function, △: optional function, -: Not available function





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