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PC-Based CNC Controller

Trusted Technical Service

SYNTEC has made efforts in achieving high-performance, high-efficiency PC-Based CNC controller. Based on the rapid development of PC technology, we have invested in the research and development of hardware and software technology. With the industrial design and the fabrication of high-reliability, we can provide the best electric control program of the machine tool industry.

On the performance, SYNTEC provides outstanding high-speed,high-precision functions to satisfy needs of areas such as molds and high-speed milling. Multi-axis control and multi-program applications make the lathe, milling and multi-axis interpolation control easier. With the abundant and complete GM code and the easy-to-learn interface, first-time users can get started quickly. Thanks to the high degree of horizontal integration capabilities and scalability of the operating interface, machine tool factories can provide a variety of products to meet customers' demands.

It's important to choose our products for fast and attentive services and the whole sales and service team around the world. You do not have to worry about the inadequate services, and there are no technical support limitations. SYNTEC will always be your best partner in technology and

services.



High Efficiency

- High speed and high precision look-ahead function, with a maximum of 2000 single blocks
- High speed drilling and tapping, high speed threading.
- Support up to four path control to meet demands of multi-path machining.
- Axial-coupling, axial-exchange, and virtual axis function to increase the flexibility of the machine.
- Support functions of five-axis machining and feature coordinate-function.

Simplicity And Convenience

- Machining preparation, dry run function, clear and easy-touse machining monitor.
- Complete operating support, and customize helping screen
- With graphic input interface, users can also edit programs easily even when they are not familiar with G code.
- Provide network and USB disk interface, the most complete PC interface for input and output.

Features

- Provide eHMI function for users to customize software interface conveniently.
- Customized G/M code, dedicated machine can be used easily.
- Provide dipole architecture, users can integrate the customized software on PC.
- Provide optional visual function or pick and place equipments for highly automated integration solutions.

Purpose

- Standard Machine: Lathe, milling machining center, engraving machine, turning-milling center.
- Dedicated machine: Tapping center, glass cutting machine, cutter grinding machine, PCB molding machine, spring machine, laser processing machine, flame cutting machine, stone processing machine...etc.

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All Series Of SYNTEC Contorller

SYNTEC's controllers combine the system and screen into one integrated controller which is significantly reduce wiring costs and space requirements, thereby enhancing the performance -to-cost ratio.

EZ Series Controller

8-inch LCD screen, universal operator panel, combining with servo axis, spindle, MPG axis, built-in PLC and USB interface, CF CARD reading device. In addition, other advantages are low price, high performance, simple structure, easy to use, and high reliability.



EZ2S Controller



EZ3 / EZ4 T2-Lathe Controller



EZ3 / EZ4 Milling Controller



EZ3 / EZ4 T3-Lathe Controller

10 Series Controller

10.4-inch LCD screen, combining with servo axis, spindle, and MPG axis, built-in PLC and USB interface, CF CARD reading device. In addition, other advantages are easy use, and high reliability. And the internal wires are most simplified, controller reliability is significantly improved.



Split Controller



Standard Type 900 Controller



Panel Type Controller



Standard Type 940 Controller

High-speed and high-precision SYNTEC controller

3 Series Controller

The system includes an 8-inch display and uses the latest embedded architectures and technologies. It uses the 32-bit WinCE operating system which increases computation speed and provides high-precision control as well as stable performance.







Split Controller



T2-Lathe Controller



T3-Lathe Controller

20 Series Controller

Adopts YASKAWA Mechatrolink-II, Delta DMC NET and EtherCAT serial communication controller that improves wiring and scalability of traditional pulse universal controller and makes the system simpler, more expandable and more easily to assemble. SYNTEC 20 series controller can control the up-to-16-axis synchronous servo motors. I/O contacts not only provide 32 direct input and output but also are able to use RIO serial interface to connect to external I/O module. Based on needs of IO to equip RIO module, selection is more flexible.



10.4-inch Split Controller



8-inch Controller

For more information regarding Synteo's products, including product dimension diagrams and metal hole position diagrams, please visit [SYNTEC-Products].

http://www.syntecclub.com.tw/2010/HTML/Product.aspx

Control Panel

Control panels of different styles and sizes are available for use with different controller types, machine functionalities, and machine dimensions.

Lathe Operation Panel

We provide various different combinations of functionality and configuration with our control panels to meet the diverse needs and requirements of lathe operation.





Lathe Operation Panel-400*250

Lathe Operation Panel-440*250







SK4 Membrane Panel SK5 Membrane Panel

SK6 Lathe Panel





4012-T2 Operation Panel

4018-T3 Operation Panel

Simple Type Operation Panel

Syntec's simple control panel is suitable for machines with simple functionalities.



Simple Type Operation Panel-1023



Simple Type Operation Panel-440*100(No MPG)



Simple Type Operation Panel-1030-M1



Simple Type Operation Panel-440*120(With MPG)

High-speed and high-precision Syntec controller

Milling Operation Panel

We provide various different combinations of functionality and configuration with our control panels to meet the diverse needs and requirements of milling machine operation.



Milling Operation Panel







SK4 Membrane Panel

SK5 Membrane Panel

SK6 Milling Panel





4012-M Operation Panel

4018-M2 Operation Panel

Dedicated Operation Panel

The control panel designed for the dedicated machine includes high-quality acrylic buttons and switches that are waterproof as well as oil-proof in order to keep out oil and grease from the processing environment. The replaceable acrylic button design makes it easy to use and maintain the keys on the operation and control panel. Syntec provides users with a clear and simple control interfaced based on common usage models and processing habits, thereby providing an easier operation interface with enhanced convenience.



D D D D D D D



Drilling Machine-SKM1

TAPPING-3030M1

TAPPING-3030M3

For more information regarding Syntec's products, including product dimension diagrams and metal hole position diagrams, please visit [SYNTEC-Products].

Syntec 20 Series Turning Controller



High-Speed, High-Precision Serial Motion Control.

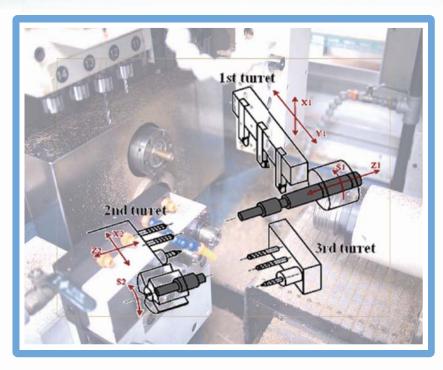
20 series controller uses the SYNTEC self-developed multi-axial motion control card, digital communication, replaces the pulse control interface. The control resolution increases to 1.28 million (* 1), so machine tools can implement the complicated machining process. By using digital communication to control motion, interpolation time is shortened and motion is significantly smoother.

*Adopts Delta serial 1280000 YASKAWA serial 262144

Flexible, And More Flexible

SYNTEC 20 series controller uses WinCE6.0 OS, strengthening the network, USB applications, displaying up to 256 colors, and taking the expertise advantage of PC-based controller. The WinCE interface is the simplest and intuitive man-machine customization developed by SYNTEC e-HMI software. Therefore, even beginners can make the unique HMI. With MACRO and PLC, users can easily implement different operation, so your machine is different from other machines.

Multi-Tasking Turn-Mill Machine - 10.116





- Up to 4 systems can be controlled; therefore, the maximum number of axis can be up to 16.
- Simple interface.
- The multi-systems is used for multi-tasking turn-mill machine.

High-speed and high-precision Syntec controller

Lathe Function

High-Speed Spindle Synchronization Function

Function of synchronizing the rotation speed and angle of two spindles

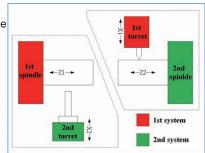
Main Spindle



Subsidiary Spindle

Axis Exchange Control

The turret of the first axis groups can be synchronously machined with the second spindle; and at the same time the first spindle occupies the second turret to machine. Reduce the number of machine tools, machine more flexibly, and improve machine efficiency.



Twin Spindles Tapping

Spindle does not need to decelerate speed to zero, or even maintains the original speed, so spindle and tool holder can execute tapping at different speed, which significantly reduces required time for tapping.

Spindle



Driven Tool

Extreme Speed Threading Mode

Improving tool retraction movement in threading cycle creates the beautiful thread; the high speed thread cutting mode can enhance threading efficiency.

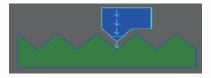
1000 Time Threading	General Threading	Extreme Speed Threading Mode	Time Saring
G21Threading	36789(Sec)	29303(Sec)	About 20.3%
G78Threading	24685(Sec)	18803(Sec)	About 23.8%



Thread Repairing Function

Processed thread can be jigged and fixed again on the turning spindle to repair.





Tilting Plane Machine

Function of rotating coordinates helps users simply write machining program on the inclined surface. Milling, drilling, and tapping on the inclined plane are simply implemented by NC program, without complex CAD / CAM processing.



Mill Function

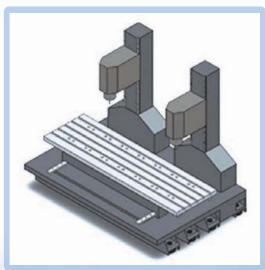
Fast Tool Retraction In Tapping Process

- Use parameter to set tool retraction speed, maximum to 300%.
- Support the bell-shaped curve of acceleration and deceleration with the advantage of high speed and stability.

The Percentage Of Retraction	100%	150%	200%	300%
Tapping Time (100 Holes)	310	273	255	240
Save percentage	-	11.94%	17.74%	22.58%

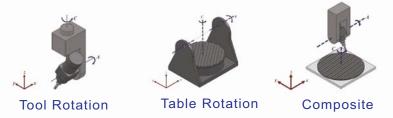
Multi-Spindles Tapping

- Provide multi-spindles machine to enhance the productivity corresponding to the same program.
- Support multi-spindles tapping, improve the productivity.
- Flexibly select the machining spindle according to different machine conditions
- Support up to 6 spindles



Five-Axis Control Function

Support Various Types of Five-Axis Compensation



Support Various Types Of Five-Axis Compensation

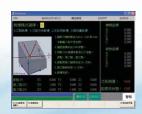
Provide 5 axis tool compensation so that users can write tool center machining path and the controller compensate the tool length and kinematic length.





Tilt Working Plane Machining

For oblique cutting tool or rotating worktable, provides correction function to define the tilt machining plane conveniently .





High Efficiency Machining

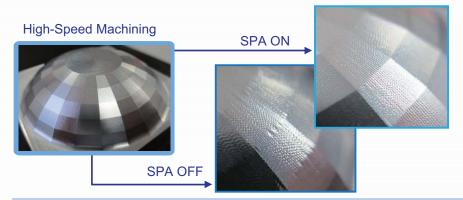
High-Speed, High-Precision Machining (HSHP)

The HSHP function can process 1500 blocks per second in WINCE. There are 2000 blocks in look-ahead mode. These enable smooth motion and enhance surface quality. In order to advance the precision, HSHP function also controls the corner and arc feed rate efficiently.



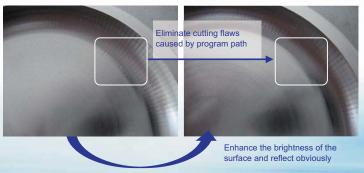
Smooth Precision Advanced (SPA)

SPA can eliminate the machining problems because of the servo lag in digital servo control and improve the precision and quality of the surface.



Path Smoothing

By trimming the rough program path generated by CAD/CAM software with a tolerance, the desired smooth and fine path is estimated by Path Smoothing function. This improves the surface finish, machining efficiency and stability of machine tool.



High-speed and high-precision Syntec controller

High Precision Contour Control (HPCC)

The tool path generated by CAD/CAM software is generally discontinuous, and it causes negative effects on machining operations. The problems will be more serious because of larger CAD/CAM tolerance. HPCC function fits the discontinuous blocks into a smooth-curve path, and this will enhance the machining precision and reduce the mechanical shock.





Quick Parameter Setting

The function provides a simple and intuitive interface to control velocity and smooth characteristic for machining.

The velocity and smooth level are ranged from level1 to level9 respectively, and user can select the suitable conditions for rough or finish machining easily.



Precision Parameter Setting

To retain the excellent surface quality and save the machining time in various machining conditions, SYNTEC provides five sets of motion parameters for users.

Users can even adjust all the parameters freely for high speed, high precision, rough machining or finish machining by the simple interface.



Friendly Operating Interface

Users can get started easily and immediately operate it right for the first time.

Graphic Conversational Input

Provide the whole of conversational programming edit menu; therefore, users can edit customized cycles directly on the screen.

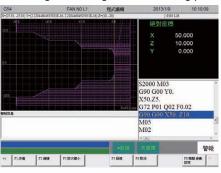


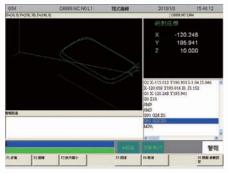


Lathe Mill

Graphic Simulation Function

Convenient simulation function, provide look-ahead simulation, path checking and observing for moving status in cutting process.



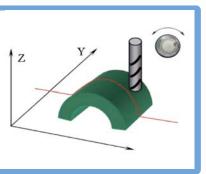


Lathe Mill

MPG Simulation

In the dry run process, users can decide the cutting speed and direction with moving MPG forward or backward.





Lathe Mill

Work Record

Provide Work Record to record processing details and then users can verify cutting time and machine utilization rate easily.

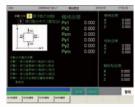


High-speed and high-precision Syntec controller

Open Human-Machine Interface Editing Software - eHMI

Introduction - Open Platform, Easy To Learn And Easy To Use Environment

eHMI can help developer to edit HMI intuitively without complicated programming process. Because it provides a more efficient, easier and more user-friendly operation interface to reduce development process for any NC equipment.



Man-machine browser editing



Man-machine Fenubar editing



Package the project and then install directly on the controller



Integrated test results with the same display on the controller

Complete Development Tools

Open Architecture

SYNTEC provides eHMI to

develop customized page fast

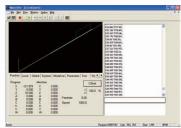
SYNTEC provides MacroDEV to

develop customized Macro

SYNTEC' Macro Editor Program Software-MacroDEV

Macro Support

Windows based development environment which is compatible with CNC and has following characters: Open file, save file, single simulation, 3-perspective view simulation and checking for system variables.



SYNTEC provides Customers to develop customized page, and it doesn't affect standard functions.

Custom interface

Historical

alarm

page

Difference

module

Axial and

IO drive

Standard human-machine program

SYNTEC standard human-machine library

Parameter

setting

page

Dvnamic

programming

module

PLC actuator

Execute

Machining

page

SYNTEC standard control kernel

Virtual

display

page

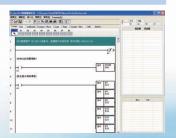
Decode module

CNC operation

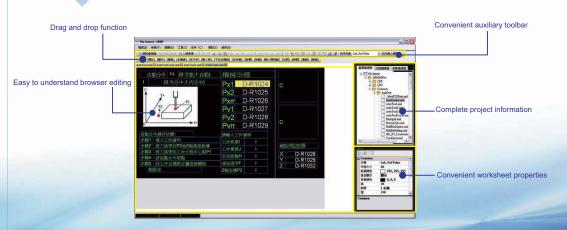
SYNTEC' Ladder Editor Program Software-MLCEdit

Ladder Support

Windows based Ladder programming software Online ladder display, convenient for debugging Ladder supports open file, input short and long comment, save file, cut, paste, copy, redo, and syntax check



Convenient And User-Friendly Operation Interface



SCARA Robot

Depends on user's requirement, TCP posture or joint positions can be inputted to generate TCP motion or simultaneous joint motion.



Teach Pendant



Machine Vision System



SYNTEC Controller

Multiple Command Mode

Robot motion can be programmed using G code. Manipulation tasks can be achieved fast and easily!



SCARA Robot

Teach Mode

Robot motion can be easily generated using teach mode.



High-speed and high-precision Syntec controller

Vision Alignment System

Combined with vision system, the offset and rotation information of work piece can be obtained and compensated into controller. By this way, the machining accuracy can be significantly improved. Our vision system provides simple and intuitive manipulation and teaching interface, supports up to 4 CCDs, and is very convenient for users' setting.

Easy To Manipulate

All operations are reached on the controller only, another monitor or control box is unnecessary.

Easy To Use

Provide standard alignment macro for general application. For different size of work piece, users only need to modify parameters.

Easy To Set Up

Provide waterproof box. All the vision accessories are calibrated and set up inside. Users only need to install the waterproof box.

Easy To Customize

Through eHMI, users can easily modify the browser layout.

High Openness

Modify macro parameter to reach different needs.

High Compatibility

Support Cognex, Keyence, and Omron visual system.



Syntec WinCE Controller

Identify Targets

Cross mark, circular mark, arbitrary pattern, line, L-mark, intersection.





Standard Visual Pages

Include parameter setting, image monitoring, and result display.



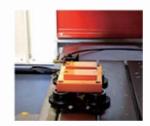


Vision Application: Glass Grinding

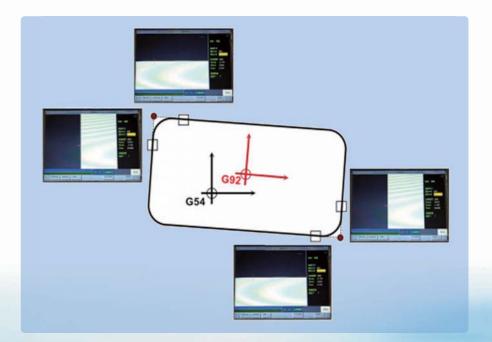
Glass panel are mainly processed by grinding, with high demands on precision and gloss. Generally, the work pieces are picked and placed manually and the final position may be different. Using fixture may only slightly reduce the place error.

Syntec Vision system provides total solution for alignment detection and compensation. After work piece is placed, the offset and rotation owing to place error can be obtained by Syntec vision system, and then compensated in controller. By this way, the efficiency can be greatly improved.





- •Application: rectangular glass, rounded glass, glass with printing, PCB,welding machine
- •Precision: 10~20um (depend on different applications)



Syntec Vision Package

Feature	A type Cheap, dedicated	B type All with fixed distance	C type All with different distance				
Appliance	Glass Metal mark	Glass: rarely Other: OK	All				
	1.3 megapixel CCD						
Camera	The state of the s	S	5				
	USB Interface DMK-	-72AUC02 Gigl	E:DMK-23K445				
	Telecentric Lens (coaxial)	Telecentric Lens	CCTV Lens				
Lens	Milli	Hillin	his de				
	Spot Light	Direct Ring Light	Coaxial Light				
Lighting		000					
	1CH Analog Dimmer	1CH Analog Dimmer	1CH Analog Dimmer				
Dimmer LED-Power							
Resolution	=5um/pixel	=5um/pixel	=5-50um/pixel				
Field of View-FOV	≈ 4.8mm*6.4mm	≈ 4.8mm*6.4mm	≈ 5mm*7mm ~50mm*70mm				
Working Distance (WD)	110mm	110mm	110mm-500mm				

2D DXF Import And CAD/CAM Solution

CAD/CAM Platform

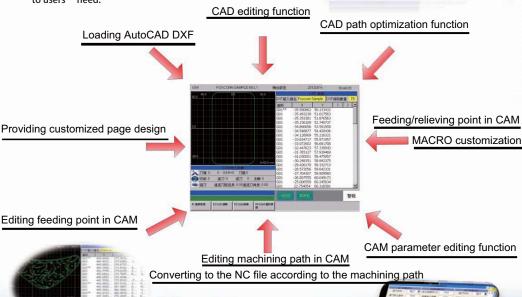
- Loading AutoCAD DXF File SYNTEC provides the function of loading DXF files. the complex graphic can also be loaded.
- Editing The Image File Loading From AutoCAD Providing the editing function after loading DXF files, users can delete or add the line segment in DXF files.
- CAM Path Optimization Function Providing the capability to optimize the machining path in the DXF file, complex segments of DXF can be automatically determined and arranged to create the smooth machining path.
- Function Of Setting CAM Machining Program Users can edit their own machining processes; do not need to follow these steps: the tool feeding \rightarrow the machining path \rightarrow the tool relieving ... converting to NC files.
- Function Of Setting Relieving Point In CAM Allowing users to choose feeding points according to users' need.

Open Development Platform

- Function Of Editing CAM Parameter SYNTEC provides customers with CAM parameters page to
- MACRO Program To Set Tool Feeding/Relieving In CAM Providing the MACRO program to design the tool feeding/ relieving in CAM, users can design the tool feeding/relieving path according to operation of dedicated machine.

self-define or self-customize dedicated customized surface.





Dipole Solution

Dual System Solution

SYNTEC provides dual-system architecture with expectation that users can benefit from PC-Based CNC.Dual-system architecture provides connection between front-end computer and back-end CNC by cable. Front-end computer can process various applications such as Vision, CAD/CAM and other high level software applications, allowing customers to integrate hardware and software resources.

High-speed and high-precision Syntec controller

- SYNTEC provides standard API to facilitate customers to develop front-end application programs.
- Front-end computer can use Win xp or Win7 and other platforms, easy to integrate with other
- Front-end computer develops relatively fast in order to PC, and all human-machine interface is executed in the front-end computer, does not affect the back-end CNC's performance.
- SYNTEC provides standard platform ensuring real-time quality at the back-end.



Integrate with other software and

hardware such as Vision, CAD / CAM

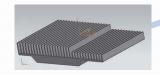
programs in WIN XP or WIN 7...

Self-developed front-end



Applications development can be executed through the Internet.

Ethernet TCP/IP





Customers use dual-system architecture to self-develop 3D simulation control software and operator panel to operate the controller at the front-end computer.



Syntec standard back-end

Remote Monitor--Remote CNC

One-To-One Diagnostic

Remote diagnostic

Monitor CNC status through internet, remote machining status and diagnostic function are given to help service engineer trouble shooting easily.

Remote update and backup

Engineer can update and backup software remotely, keep CNC controller best performance.

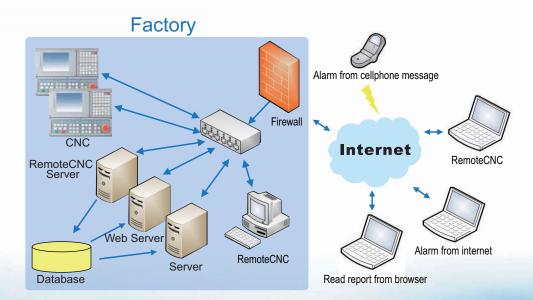
One-To-All Monitoring

Production Line Management

Supervise all machines through RemoteCNC, reduce labor costs.

Customized Interface

With eHMI software, Supervisor customized monitoring interface himself are available.



Common Function Of Lathe And Milling Machine

	SYNTEC spec.	EZ series	3 series	10 series	20series	Additional
	Operation system	DOS/WinCE	WinCE	DOS/WinCE	WinCE	
	Panel size	8.4"	8.4"	10.4"	8.4"/10.4"	LCD color"
Hardware	RAM	128	256	128/256	128/256	
	Serial	_	_	_	0	Yaskawa MII/Delta DMC NET
	Machine lock	0	0	0	0	
	Software stroke limit	0	0	0	0	
	Backlash compensation	0	0	0	0	
	Pitch error compensation	0	0	0	0	
Control	Quad-peak error positive compensatio	n 🔘	0	0	0	
	Axis coupling	0	0	0	0	
	Virtual axis	_	_	0	0	
	Multiple channel	0	0	0	0	
	Least control unit	0.0001mm	0.0001mm	0.0001mm	0.0001mm	ı
	MPG simulation	0	0	0	0	
	MPG simulation return	0	Ö	0	Ö	
	Dry run program	0	0	0	0	
	Optional stop program	Ö	Ö	<u> </u>	<u> </u>	
Operation	Single block	Ö	Ō	0	0	
Operation	Virtual MPG	_		0	0	
	Breakpoint start	0	0	0	0	
	External offset setting	0	<u> </u>	0	<u> </u>	
	Restart		0	0	0	
	Optional skip	1 sets	10 sets	10 sets		Ignore the single block byusing "
	B stop/program end	0	0	0	0	ignore and emigre breek by asing
	Absolute coordinate	0	0	0	0	G92
Program input	Workpiece coordinate	6 sets	32 sets	100 sets	100 sets	
	Extension G code	0 30.0	02 3013	0	0	
Customized						
function	еНМІ	0	0	0	0	Customized graphic screen
	Auxiliary Function(M-PLC)	0	0	0	0	
Auxiliary function	Auxiliary Function(M-Macro)	0	0	0	0	
taxillary ranotion	Rapid spindle positioning			0	0	
Tool manager	Tool life management	0	0	- 0	0	
Tool manager	-	0	0	0	0	
Program edit	Background edit Edit protection					
Daniel control	•	<u> </u>	0	0	0	
Remote control	' '		0	0	0	
	NETWORK	0	0	0	0	
	FTP	0	0	0	<u> </u>	
Information	RS-232		_	0	0	
transfer	RS-422	_	_	<u> </u>	0	
	RS-485		_	0	0	
	CF-Card	0			O	
	USB		2 sets	3 sets	3 sets	
	Alarm	0	0	0	0	
Information - display -	Operating records display	0	0	0	0	
	Graphic simulation	0	0	0	0	
	Linear scales self diagno	_	0	0	0	
	On-line help	0	0	0	0	

Standard function

 \triangle Optional function

No such function

Dedicated Lathe Functions

	SYNTEC spec.	EZ series	3 series	10 series	20series	Additional
	Control axes	2/3/4	3/4	4/8	4/5/8/9	
	PLC axis function	0	0	0	0	
	Spindle number	2	2	4	2/4	
Control	Path	2	2	4	4	
	Main system axis group	1	1	2	2	
	PLC axis function	0	0	0	0	Axis group can be set as PLC axis group
	Axis exchange function	_	_	0	0	
	Block lookahead	100	100	500	2000	
High-speed	Block processing time	150	150	1500	2000	
High-precision	Constant Jerk control	0	0	0	0	
	Auto corner deceleration	0	0	0	0	
	Arc radius speed limit	0	0	0	0	
uxiliaryfunction	Extreme speed threading mode	_		0	0	
	Cylindrical Interpolation	0	0	0	0	G07.1
	Polar coordinate interpolation	0	0	0	0	G12.1/G13.1
	Thread cutting	0	0	0	0	G33
	Variable lead threading cutting	0	0	0	0	G51.2
	Thread Cutting Cycle	0	0	0	0	G72
	End Face Turning Cycle	0	0	0	0	G73~G74
G code	Multilateral cutting	0	0	0	0	G75
function	Finishing Cycle	0	0	0	0	G76~G77
	Stock Removal(Turning/Facing)	0	0	0	0	G78
	Pattern Repeating Cycle	0	0	0	0	G80~G89
(!	Peck Drilling Cycle (End Face/Diameter)	0	0	0	0	G34
	Multiple Thread Cutting Cycle	0	0	0	0	G21
	Canned Cycle For Drilling	0	0	0	0	G24
	Synchronously pick and place workpiece	0	0	0	0	G114.1
	workpiece	_		0	0	G114.3

 $[\]bigcirc$ Standard function \triangle Optional function - No such function

High-speed and high-precision Syntec controller

Dedicated Milling Functions

	SYNTEC spec.	EZ series	3 series	10series	20 series	Additional
	Control axes	2/3/4	4	4/8	6/12	
	PLC axis function	0	0	0	0	
	Spindle number	1	2	2	2/4	
Control	Path	4	2	4	4	
	Main system axis group	1	1	2	2	
	PLC axis function	0	0	0	0	Axis group can be set as PLC axis group
	5-axis function(RTCP)	_	_	Δ	Δ	
Auxiliary	Vision function	_	Δ	Δ	Δ	
function	CAD/CAM		Δ		Δ	
Operation	MPG interrupt function	0	0	0	0	
	Auto function	0	0	0	0	
Tool manager	Auto tool measurement	0	0	0	0	
	Tool displacement	_	0	0	0	
	Block lookahead	100	100	500	2000	
	Block processing time	150	150	1500	2000	
	Constant Jerk control	0	0	0	0	
	Auto corner deceleration	0	0	0	0	
High-speed	Arc radius speed limit	0	0	0	0	
Highprecision	High-speed and high-precision multiple parameter sets	n ()	_	0	0	
	SPA function				0	
	G5.1 path smoothing function	0	0	0	0	
	HPCC			Δ	Δ	
	Cylindrical Interpolation	0	0	0	0	G07.1
	Polar coordinate interpolation	0	0	0	0	G12.1/G13.1
	Thread cutting	0	0	0	0	G33
	High speed drilling cycle	0	0	0	0	G73
	Left hand face tapping cycle	0	0	0	0	G74
	Fine drill canned cycle	0	0	0	0	G76
0 1	Drill canned cycle	0	0	0	0	G81
G code function	Pause drilling cycle	0	0	0	0	G82
Tunction	Drilling cycle	0	0	0	0	G83
	Face tapping cycle	0	0	0	0	G84
	Drill canned cycle	0	0	0	0	G85
	High speed drill canned cycle	0	0	0	0	G86
	Side drilling cycle	0	0	0	0	G87
	Side tapping cycle	0	0	0	0	G88
	Side boring cycle	0	0	0	0	G89
	Tilt plane machine	_		Δ	Δ	G68.2

 $[\]bigcirc$ Standard function \triangle Optional function - No such function



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