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# SYNTEC Woodworking Machine Products

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## 新代木工產品

最 值 得 信 任 的 電 控 夥 伴  
TRUSTED TECHNICAL SERVICE



**SYNTEC**

## ABOUT SYNTEC

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SYNTEC has become one of the most influential and development potential controller brand in the Asia-Pacific market. With smart manufacturing system among its core strengths, SYNTEC is well experienced in lean and diverse manufacturing, the digital and physical integration, and on-site services. With the support of multiple distributions, we are the ideal one-stop shop for complete solutions and we hope all the small and medium manufacturers can join us in stepping into Industry 4.0.



In hoping to fulfill its vision –Trusted Technical Service.

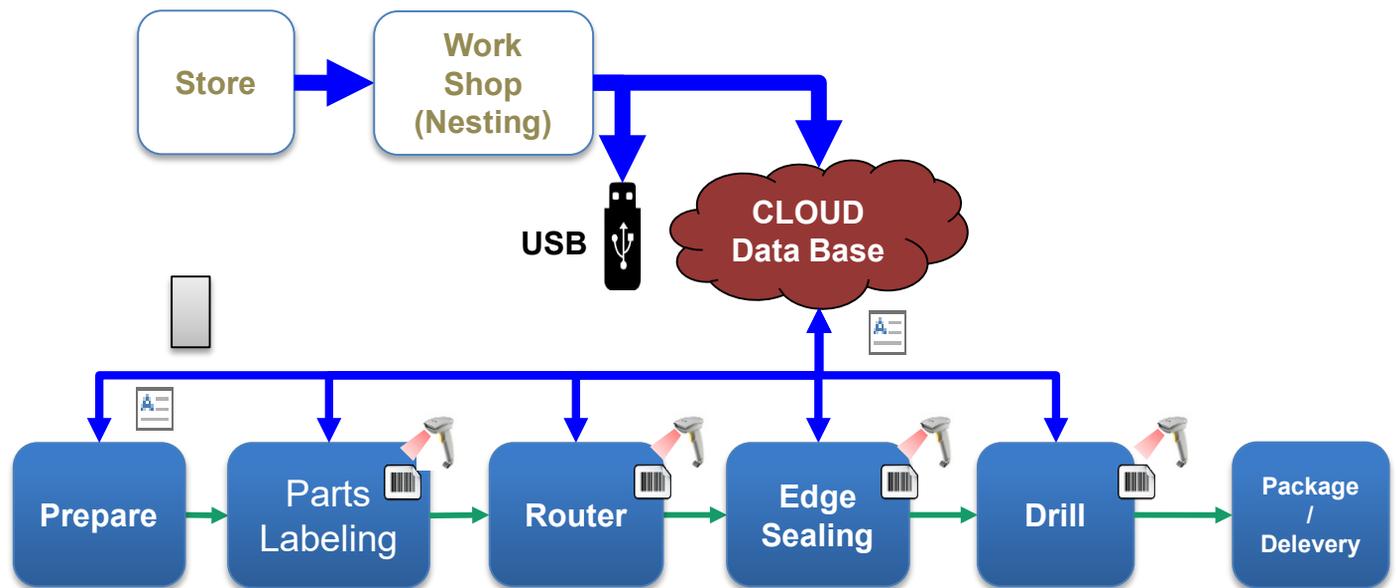
# SYNTEC 60 Series Woodworking Controller

## Total Solution of Woodworking Manufacturing

As rapid growth in furniture market, demand of high-efficient manufacturing CNC equipment is increasing significantly in Wood industry these years. **SYNTEC 60 Series CNC Product**, provides **total intellectual solution** for all kinds of Woodworking Controllers including hardware and software backup.

- **Auto-Label-Sticker solution ( Industry Printer-CNC )**
- **Simple-Router/ Wood Machining Centers**
- **Integration with MES, ERP ( Working-List, Dispatch-List management )**
- **Drilling machine solutions ( Built-in CAD/CAM, smart CNC )**
- **Furniture Production Line Integration ( Load by Robot, Center Control )**

### Panel Furniture Manufacturing Process



### Total Solution / Success Case



Auto Label-Stick solution



Robot Loading Solution



Economy-type Router



Machining Center (Multi-Magazines)



Auto Loading Router



Door Cabinet Production



CNC Driller (5-Sides / All Sides)



Wood Machining Center

# Auto Label-Stick Controller – 60P Series



1. 10" Touch Panel
2. Mechatrolink III / Ethercat Protocol
3. CNC – Printer Connect Directly, No PC Needed
4. Support Industrial Printer (Zebra, TSC..)
5. Working List / Label List Manage
6. Optimization of Stick Label Path

## Auto Stick Label Machine

Materials

Stick Labelsby Parts

Cut by Parts

Mulple Sheet  
With different  
Process by  
parts



Auto Stick Label  
Machine

Router



- No more error label by human
- WorkingList Import Supported
- Central Control in Production line
- Lost Labels Check Solution



Auto Label-Stick Machine

- Main Process Control Center of Production Line

新代貼標生產管理系統

順序	貼標檔	尺寸	狀態	順序	標籤名
1	Label_10171556_0101.cyc	TER (圖) 銀材(2024)	未加工	1	1_0_1tmp
2	Label_10171556_0102.cyc	实木板材(12024)	未加工	2	1_1_1tmp
3			未加工	3	1_2_1tmp
4			未加工	4	1_4_1tmp
5			未加工	5	1_3_1tmp



卧室-客房1500床加吊板  
层板 1/3/38  
M: 银丝木(生态板)  
F: 4边厚边  
C: 3K8K87B2

三水056 377\*197\*25



第 0 / 2 塊  
第 0 個標籤

# Router Controller– 60W / 60C



**SCD-60WA**



**FC-60WA**

1. **Servo Driver + Controller in One**
2. Serial Motion Control (MIII / EtherCAT..)
3. Less Wires and Easy Distributing
4. Working List / Label List Manage
5. Software Panel for Mouse / Keyboard Use
6. Built-in CAM ( Option for Drilling machine )
7. Auto Label-Stick function ( Option )

1. 60CA/CB – Economic-Type Controller
2. Support **4 Servo Axis**
3. Variable-Freq Drive Control ( MODBUS )
4. Working List / Label List Manage
5. High Speed High Precise (HSHP)



**FC-60CA**

## Servo Driver + Controller in One



- **Highly Integration**
- **Complete Software and Hardware Solution**

Variable-Freq  
Drive Control  
( MODBUS/DA )



MIII Serial Servo  
Expansion



32 Input/  
32 Output

SRI for Extra  
DI/DO

Mouse/ Keyboard  
Software Panel



**Absolute-Type**  
Motor \* 4



# High Speed High Precise



**HSHP**

# Manage Labels On Router



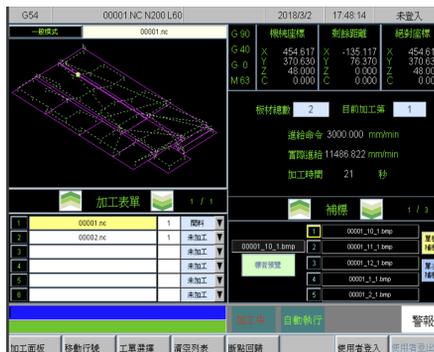
**Label List  
Manage**

# CNC Lost Panel Redo Solution



**Optimize  
Material  
Value**

# WorkingList Manage



**Simple/Fast  
Manupulate**

# Drill Machine Controller- 60D



SCD-60DB



FC-60DB

1. Servo Driver + Controller in One
2. Serial Motion Control (Mill / EtherCAT..)
3. Less Wires and Easy Distributing
4. Working List
5. Software Panel for Mouse / Keyboard Use
6. Higher-Efficient / Save Process Time
7. Panel Preview
8. Built-in CAD/CAM

## CNC Built-In CAD / CAM

- Generate G-Code By CNC



PTP

板材號數	1	1,12,1	中交鑽	7	1600 x 400 x 18 左邊板 Err: 板材沒有加工工藝	無旋轉
1	1,12,1	中交鑽			未開始加工	未加工
2	1,12,1	中交鑽				
3	1,12,1	左側鑽				
4	1,2,1	螺絲				
5	1,3,1	螺絲				
6	1,4,1	三合一螺絲鑽				
7	1,5,1	三合一螺絲鑽				
8	1,6,1	三合一螺絲鑽				
9	1,7,1	螺絲鑽				
10	1,8,1	螺絲鑽				



5-Sides Drill

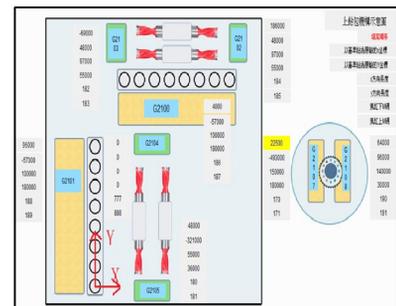
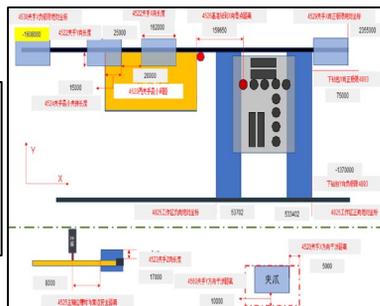


6-Sides Drill

Vertical Drill

## CNC Built-In CAM

- Mechanism Visualization
- Easily Setting/Training
- Higher-Efficient CAM



XML  
MPR  
DXF

- Support International Format
- Support Process Panel of Any Size
- Support Non-Rectangle Panel

# SynFactory – Cloud Solution

## Demonstration To Customer



实时演示



动画



照片级效果图



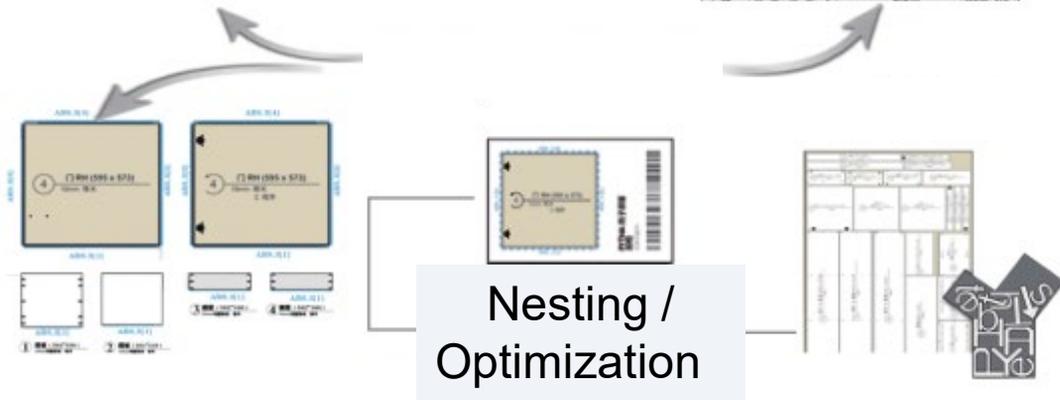
打印和绘图

### CAD Design Animation

Visualization



### Material List



Nesting / Optimization

Syntec Cloud System  
SynFactory

Connect Data from  
ERP, MES..

Collect CNC Data  
Central Control



CNC Monitor Board, Order Completion Check, File Transfer, CNC Uptime Board...



# Specification

○ Standard – No Support

Model	FC-60WA	SCD-60WA	FC-60DB	SCD-60DB	60PB	60PC	60CA
Serial Control Protocol	M3 EtherCAT	M3	M3 EtherCAT	M3	M2	M3 EtherCAT	Pulse
VGA	○	○	○	○	-	-	○
RS-232	-	-	-	-	-	-	-
RS-422	-	-	-	-	-	-	-
RS-485	○	○	○	○	○	○	○
USB	2	2	2	2	2	2	2
PS/2	-	-	-	-	○	-	-
KB	-	-	-	-	○	-	-
HK	-	-	-	-	-	-	-
SRI	3	2	3	2	-	1	1
5V Output	-	-	-	-	○	-	-
OS	WinCE7	WinCE7	WinCE7	WinCE7	WinCE7	WinCE7	WinCE7
I/O	-	32/32	-	32/32	32/32	-	-
DA	-	2	-	-	2	-	-
Monitor	-	-	-	-	10" Touch Panel	10" Touch Panel	-
DiskC (MB)	512	512	512	512	256	256	256
DiskA (MB)	512	4G	512	4G	512	4G	512
RJ-45	2	2	2	2	1	2	1

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Catalog NO. 201811-v1