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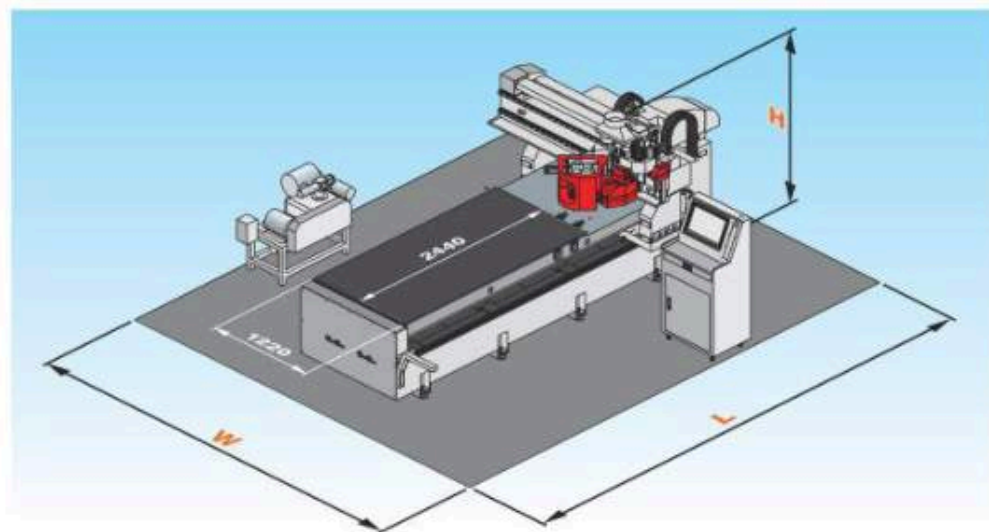
龍門型 CNC 鉋花機

元隆推出新一代龍門型CNC鉋花機。以高速、高效率、高精度贏得使用者好評。此系列CNC鉋花機搭載功能強勁的 PC BASE CNC控制器，操作簡易。

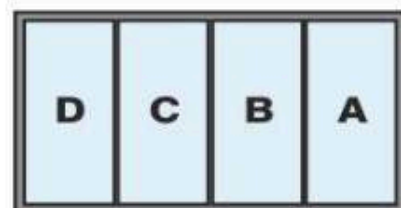
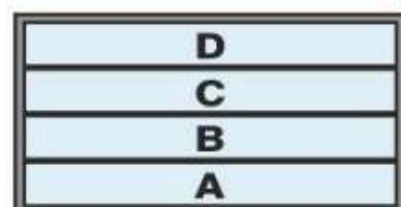


YL-15302 R+B+U
YL-12242 R+B+U

機械規格：



MODEL	YL-12242 R+B+U	YL-15302 R+B+U
台面可加工最大尺寸	1220 x 2440 mm	1550 x 3060 mm
佔地長度	5500 mm	6100 mm
佔地寬度	4500 mm	4800 mm
佔地高度	2500 mm	2500 mm



真空台面

- 可依客戶需求，變更真空檯面樣式。
- 台面真空吸附，可分成兩個不同真空區，以利一邊加工，另一邊換料（選配）。

型 式		YL-12242 R+B+U	YL-15302 R+B+U
加工範圍	最大工件尺寸	4' x 8' feet	5' x 10' feet
	X 軸行程	1720 mm	2020 mm
行程	Y 軸行程	2870 mm	3400 mm
	Z 軸行程	280 mm	280 mm
	加工物最大高度	210 mm	210 mm
	雙立柱最大距離	1387 mm	1700 mm
工作台面	工作台尺寸	1220 x 2440 mm	1550 x 3060 mm
	切削進給速度	8 M/min	8 M/min
進給速度	X 軸快速進給	40 M/min	40 M/min
	Y 軸快速進給	40 M/min	40 M/min
	Z 軸快速進給	10 M/min	10 M/min
主軸	主軸轉速	1,000~24,000 rpm	1,000~24,000 rpm
	主軸錐度	ISO 30	ISO 30
自動換刀機構	刀庫型式	傘型刀庫	傘型刀庫
	筒夾規格	ER 32	ER 32
	刀柄數量	8 pcs	8 pcs
	刀架數量	8 pcs	8 pcs
	筒夾數量	8 pcs	8 pcs
刀具	刀具尺寸	3~80 mm	3~80 mm
	筒夾尺寸	3~20 mm	3~20 mm
鑽刀頭組	馬力	2.5 HP boring unit 9V+4H+2S	2.5 HP boring unit 9V+4H+2S
	垂直鑽頭	9 pcs (5 in X-axis, 4 in Y-axis)	9 pcs (5 in X-axis, 4 in Y-axis)
	水平鑽頭	4 pcs (2 in X-axis, 2 in Y-axis)	4 pcs (2 in X-axis, 2 in Y-axis)
	最大鋸片尺寸	2 pcs (1 in X-axis, 1 in Y-axis)	2 pcs (1 in X-axis, 1 in Y-axis)
馬達	主軸馬達	9 Kw x 1	9 Kw x 1
	X 軸伺服馬達	1.5 Kw	1.5 Kw
	Y 軸伺服馬達	2 Kw	2 Kw
	Z 軸伺服馬達	1.5 Kw	1.5 Kw
	真空馬達	10 HP	10 HP
其他	所需氣壓	6 Kgf/cm ²	6 Kgf/cm ²
	機械尺寸 (LxWxH)	2300 x 5360 x 2250 mm	2300 x 5840 x 2200 mm
	淨重	5500 kg	5800 kg
	毛重	6000 kg	6300 kg

• 本公司保留機器規格及設計特性變更之權利，恕不另行通知。

MODEL IDENTIFICATION 機型辨識

YL - 12 24 2 / R + B + C + A + S

加工尺寸

1209 : 1220 x 920 mm



1224 : 2440 x 1220 mm



1530 : 3060 x 1550 mm



4812 : 4880 x 1220 mm



A : 1220 x 2440 mm

B : 1220 x 2440 mm

主軸數量

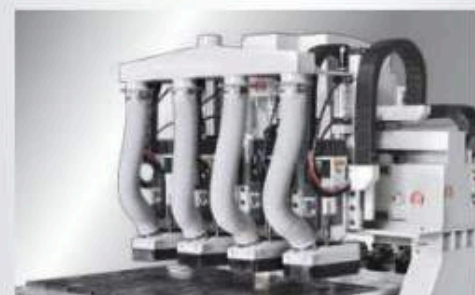
1: 單軸



2: 雙軸



3: 四軸



4: 主軸+排鑽



主軸

HSD ES 951 (9kw) 24000 rpm
單主軸



排鑽

9 立鑽+4 側鑽+2 鋸片
(訂購型號: 9V4H2S)



9 立鑽+8 側鑽
(訂購型號: 9V8H)



9 立鑽
(訂購型號: 9V)

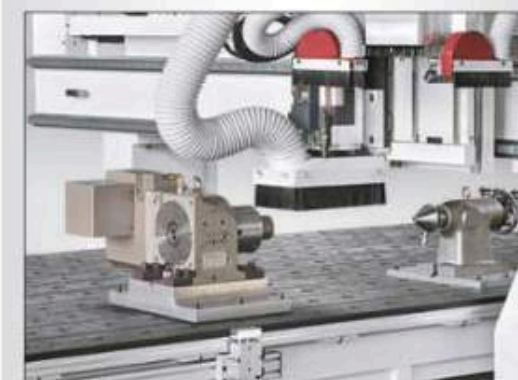


18 立鑽+6 側鑽+1 鋸片
(訂購型號: 18V6H1S)



C軸 (第四軸)

可外掛C軸 (第四軸)



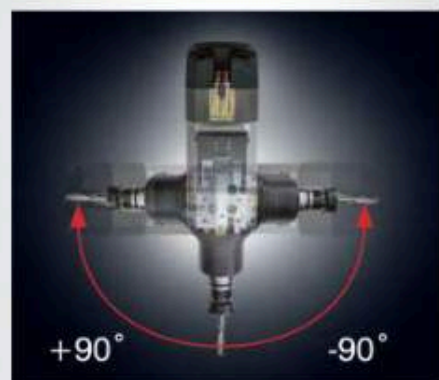
/ **U** + **L** / **N**

角度軸

主軸可垂直或水平進行加工。

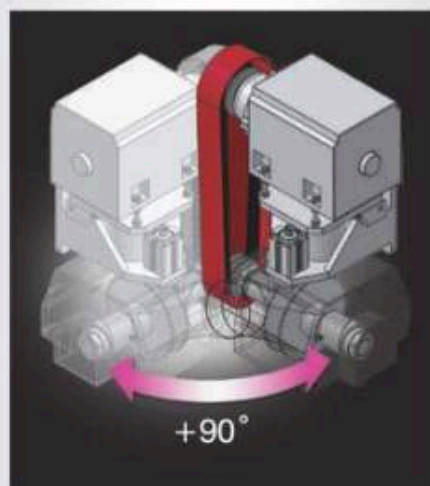


$\pm 90^\circ$ 主軸可進行多角度旋轉加工，旋轉角度為正負 90 度。



立軸刀

可直向或橫向加工。
(可安裝立軸刀或鋸片)



傘型刀庫



直列式刀庫

- 儲刀量：8支或10支刀
- 無刀臂式換刀.
- 可使用 ISO 30 刀柄.



油壓升降台

木料入料



皮帶式出料輸送台





HSD高頻主軸 (ES-951)

- HSD高頻主軸之最高主軸轉速可達24000RPM（標準配備）。
- 義大利進口HSD高頻。
- 主軸適用ISO30之刀柄。
- 主軸冷卻為冷氣式。
- 換刀時具有刀桿清潔效果。



動柱

- 動柱式結構，可節省機器之佔地面積。
- 雙立柱移動滑道配置線性滑軌，具有最佳剛性與穩定性。

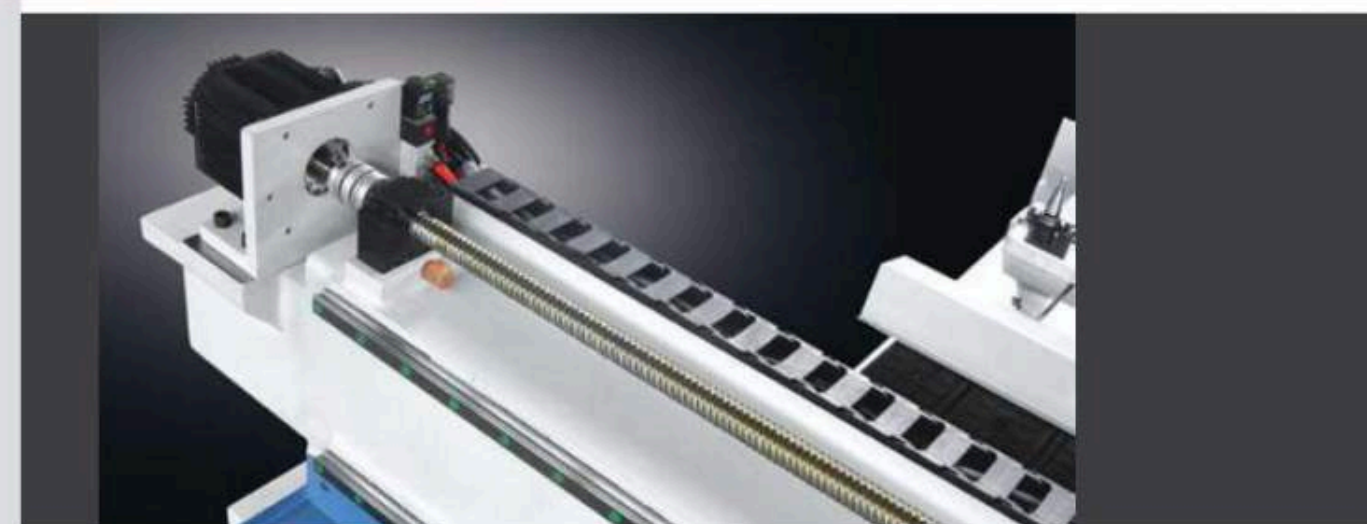


真空壓力錶



強力真空產生器

- 搭配電子式檢知開關，以確保工件確實固定。



伺服馬達直接驅動

- 伺服馬達經由聯軸器與滾珠螺桿直接驅動，無背隙產生。



自動注油器

- 自動注油器可提供所有線性滑軌與螺桿的潤滑，使三軸移動極為順暢。
- 潤滑頻率及潤滑油流量可調整。

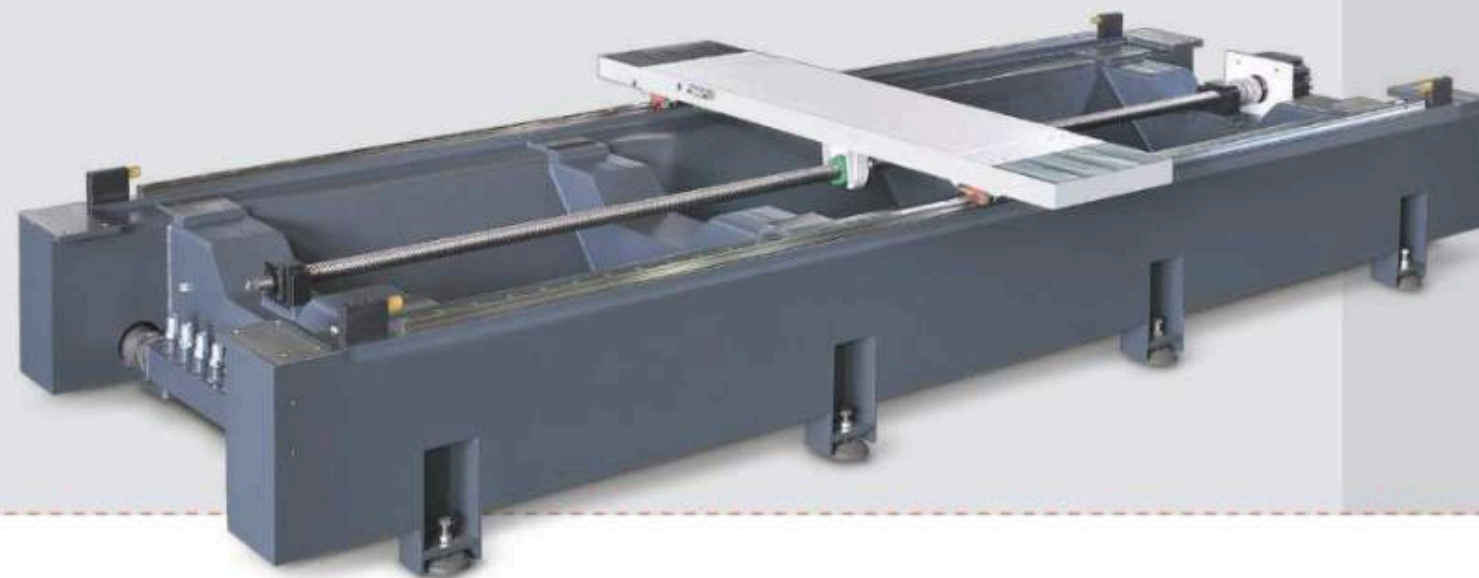


穩壓器+變壓器（選配）

- 針對電源電壓不穩定的地區，可加裝穩壓器，以穩定電壓，避免機器停機。
- 本機之標準電壓是220V，其他電壓應經過變壓器轉換成220V。

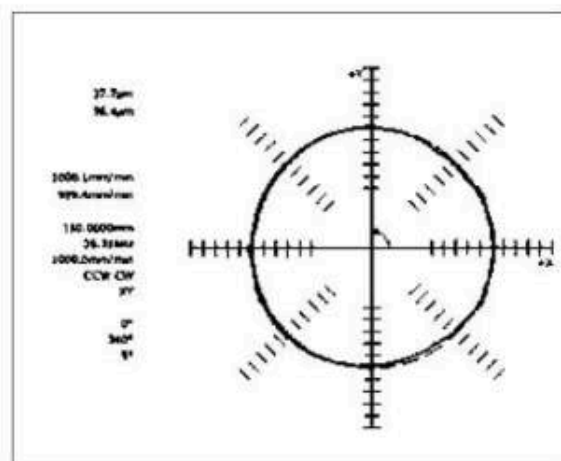
穩重的底部結構

- 超大底座結構，提供整機穩定的支撐性能。並且具有最佳結構鋼性與穩定性。
- 底座經回火處理，以消除內應力，確保底座不變形。



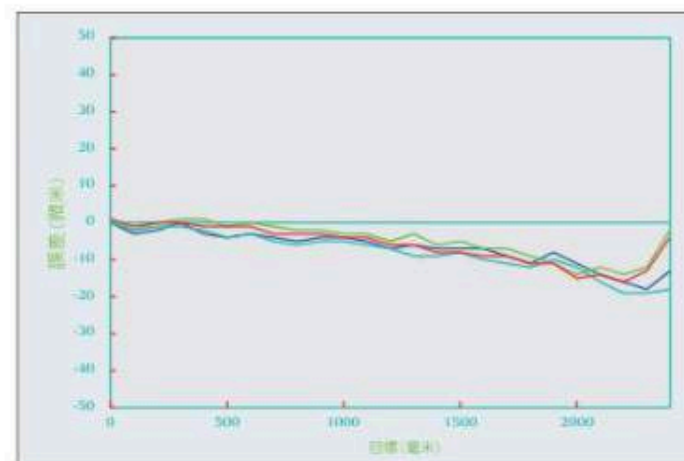
手動校刀儀

- 確保加工深度精度：0.01 mm。



循圓測試

- 本公司採用循圓測試儀檢測真圓度及幾何進度。
- 真圓度：± 0.02 mm



雷射檢驗

- 每部機器均經過雷射檢驗與檢查定位精度、重複精度、螺桿節距誤差、背隙等。
- 全行程定位精度：± 0.03 mm



氣壓缸平衡

主軸頭移動採氣壓缸作配重平衡，可有效提升加工穩定性。



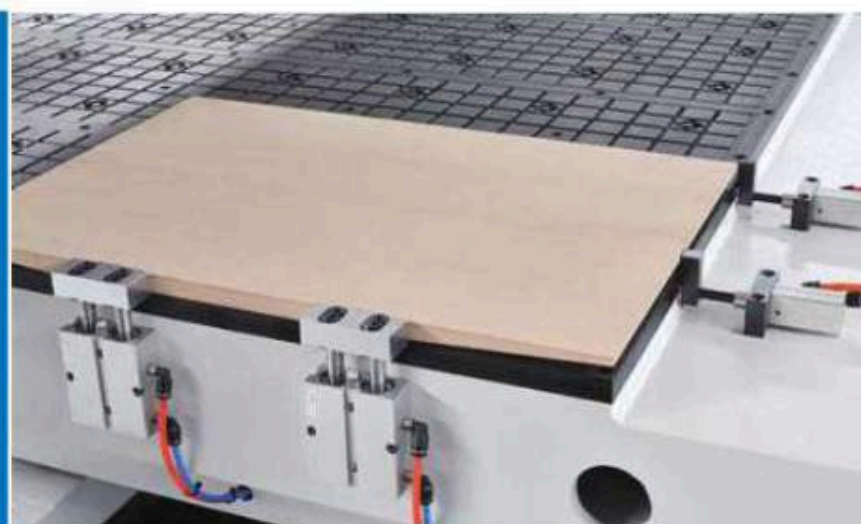
斗笠式刀庫

- 刀庫容量：8支刀
- 刀柄規格：ISO30
- 採用日本彈簧，即使是長軸刀頭，換刀時也不會有掉刀問題。
- 刀盤採用鋁合金一體成型。



輔助開關

- 本機之出料端裝置一個輔助開關箱，方便操作者於出料端也可操作機器，不需回到主操作箱。
- 四個輔助開關：真空開關、啟動開關、暫停開關、緊急停止開關。



板料定位器

- 原點氣壓缸，確保板料定位進度。
- 可重複定位板料，以免除每次加工時都需要重新定位之麻煩。



紅外線光柵

- 當機器操作中此光柵可避免人員進入機器作業範圍。如有人員進入範圍內機器將自動停機。



手動真空閥切換

- 利用手動真空閥以切換真空吸附區域。

PC BASE CNC 控制器

簡易操作

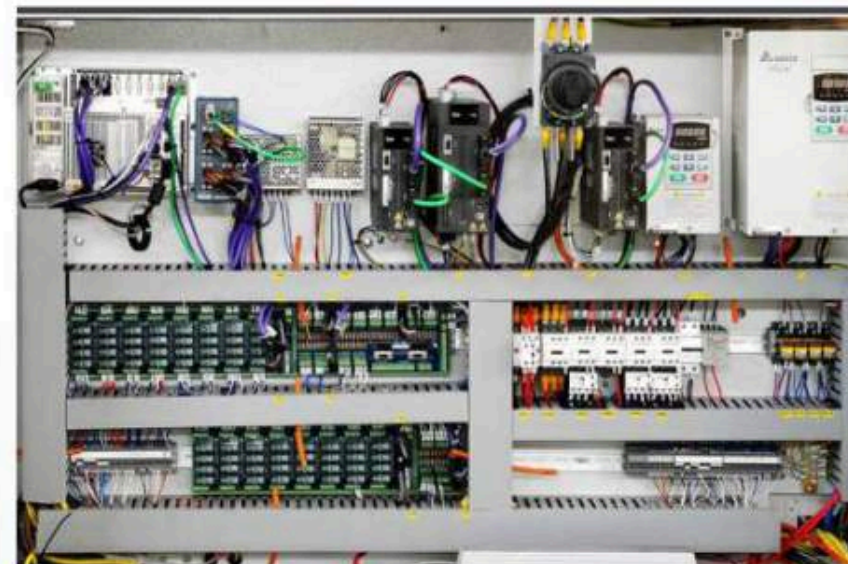
本機搭載功能強勁的PC BASE CNC 控制器

Windows 作業系統功能

- 開放式人機介面。
- USB 傳輸介面，可經由網路傳送資料。
- 中/英文顯示。
- 高速、高精度。
- 自動加工模式啟動及停止控制。單節程式執行。

操作箱

- 可連接滑鼠，提升操作之方便性。
- 採用標準PC鍵盤、滑鼠及螢幕，使操控更方便。



先進控制器

- 本機配備新一代10系列CNC控制器。搭配使用台達A2高階伺服馬達，具有高精度加工特色。



電腦螢幕

- 中 / 英文畫面顯示。



刀具冷卻

主軸旁邊有吹氣管，可直接冷卻刀具。主軸傳動後，吹氣也會自動啟動。



主軸負載監控

可隨時監控主軸於加工中之負載狀態。當過載發生時，機器自動停機。



MPG手輪

- MPG手輪提供試車切削之方便性。其功能可用於控制三軸移動、實際加工測試及三軸進給速度之調整。
- 最小設定單位：0.001mm。



網路連線插孔

USB傳輸插槽

各種介面插孔

控制器附有2個插孔，提供網路連線及USB傳輸功能。

選購配件

多種配件供選擇



貝克真空馬達



橫向銑鋸組



4H四向頭橫銑組



3H側向3頭鑽孔組



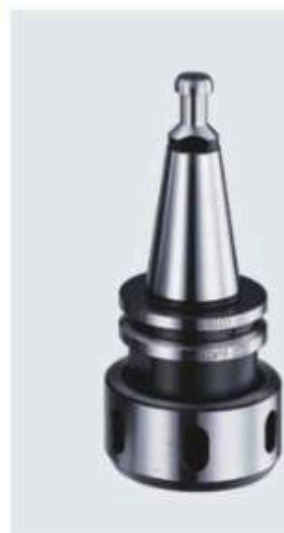
萬向銑刀組



CS-2500 油 / 氣潤滑噴霧器



數控機床對刀儀



ISO 30 標準刀桿



ISO 30 成型刀桿



1H1S 側銑鋸片組



5V 直向多孔鑽孔組



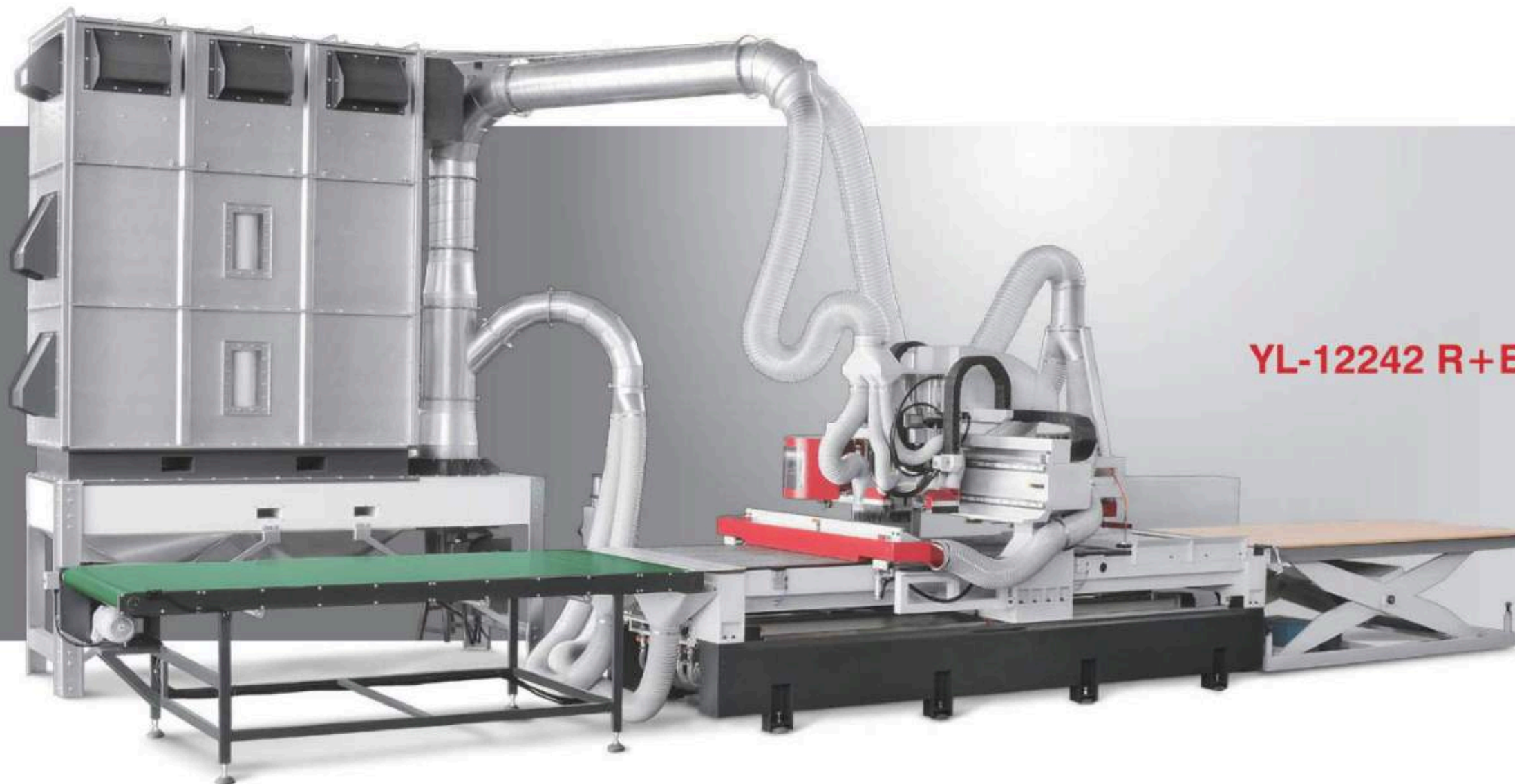
推料機構

- 加工完畢，板料自動推出。
- 推料機附吸塵口。



入料吸盤

- 板料入料採用吸盤入料。
- 6個超大吸盤，直徑130 mm，吸力強勁。



YL-12242 R+B+U+N

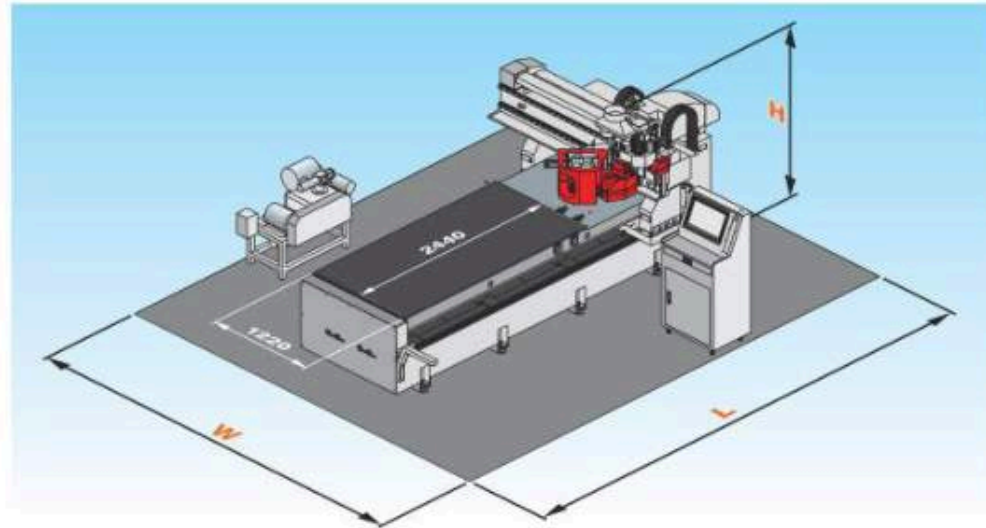
DOUBLE COLUMN CNC ROUTER

The new generation of double column CNC router from Yuan Lung has won high reputation due to its high speed, high efficiency and high accuracy. The series of CNC router is equipped with a PC based CNC controller, making the machine easy to operate.

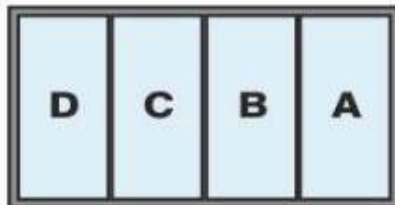
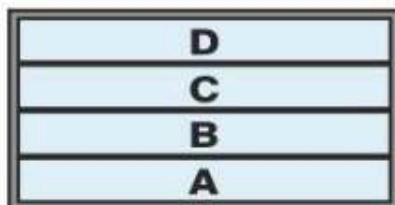


YL-15302 R+B+U
YL-12242 R+B+U

Specifications :



MODEL	YL-12242 R+B+U	YL-15302 R+B+U
Max. size can be machined on table	1220 x 2440 mm	1550 x 3060 mm
Length occupied	5500 mm	6100 mm
Width occupied	4500 mm	4800 mm
Height occupied	2500 mm	2500 mm



VACUUM TABLE

- The vacuum table type can be changed to meet customer requirement.
- Vacuum table can be divided into two vacuum areas, so that operator can change parts on one area when other area is used for machining.

MODEL		YL-12242 R+B+U	YL-15302 R+B+U
Capacity	Max. workpiece sizes	4' x 8' feet	5' x 10' feet
Travel	X-axis travel	1720 mm	2020 mm
	Y-axis travel	2870 mm	3400 mm
	Z-axis travel	280 mm	280 mm
	Spindle nose to table	210 mm	210 mm
	Distance between columns	1387 mm	1700 mm
Table	Table area	1220 x 2440 mm	1550 x 3060 mm
Feed Rate	Cutting feed rate	8 M/min	8 M/min
	X-axis rapid traverse	40 M/min	40 M/min
	Y-axis rapid traverse	40 M/min	40 M/min
	Z-axis rapid traverse	10 M/min	10 M/min
Spindle	Spindle speed (Variable)	1,000~24,000 rpm	1,000~24,000 rpm
	Spindle taper	ISO 30	ISO 30
ATC	Magazine type	Umbrella type	Umbrella type
	Tool shank	ER 32	ER 32
	Tool numbers	8 pcs	8 pcs
	Shelf	8 pcs	8 pcs
	Collect	8 pcs	8 pcs
Cutter	Router bit sizes	3~80 mm	3~80 mm
	Collet sizes	3~20 mm	3~20 mm
Boring unit	Power	2.5 HP boring unit 9V+4H+2S	2.5 HP boring unit 9V+4H+2S
	Vertical spindles	9 pcs (5 in X-axis, 4 in Y-axis)	9 pcs (5 in X-axis, 4 in Y-axis)
	Horizontal spindles	4 pcs (2 in X-axis, 2 in Y-axis)	4 pcs (2 in X-axis, 2 in Y-axis)
	Max. saw blade ø120 mm	2 pcs (1 in X-axis, 1 in Y-axis)	2 pcs (1 in X-axis, 1 in Y-axis)
Motor	Spindle motor (Made in Italy)	9 Kw x 1	9 Kw x 1
	X -axis motor	1.5 Kw	1.5 Kw
	Y -axis motor	2 Kw	2 Kw
	Z -axis motor	2 Kw	2 Kw
	Vacuum pump motor	10 HP	10 HP
Others	Air pressure required	6 Kgf/cm ²	6 Kgf/cm ²
	Packing Dimensions (LxWxH)	2300 x 5360 x 2250 mm	2300 x 5840 x 2200 mm
	N.W.	5500 kg	5800 kg
	G.W.	6000 kg	6300 kg

• Dimensions and design characteristics shown on this catalog are subject to change without prior notice.

MODEL IDENTIFICATION

YL - 12 24 2 / R + B + C + A + S

Machining Size

1209 : 1220 x 920 mm



1224 : 2440 x 1220 mm



1530 : 3060 x 1550 mm



4812 : 4880 x 1220 mm



A : 1220 x 2440 mm

B : 1220 x 2440 mm

Spindle Q'ty

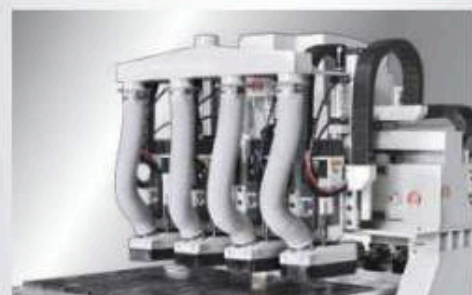
1: Single spindle



2: Double spindles



3: 4 Spindles



4: Spindle+line boring unit



Spindle

HSD ES 951 (9 kw) 24000 rpm
Single spindle



Line Boring Unit

9 vertical boring units+4 hori.
boring units +2 sawblades
(order code: 9V4H2S)



9 vertical boring units+8 hori.
boring units (order code: 9V8H)



9 vertical boring units
(order code: 9V)

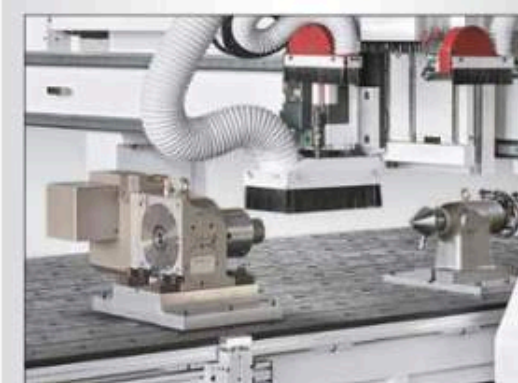


18 vertical boring units+6 horizontal
boring units+1 sawblade
(order code: 18V6H1S)



C-Axis (4th Axis)

Available to equip with C-axis
(4th axis)



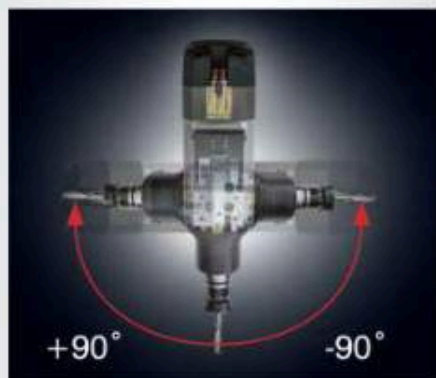
/ **U** + **L** / **N**

Angular Axis

The spindle can be rotated to a vertical or horizontal position for machining.

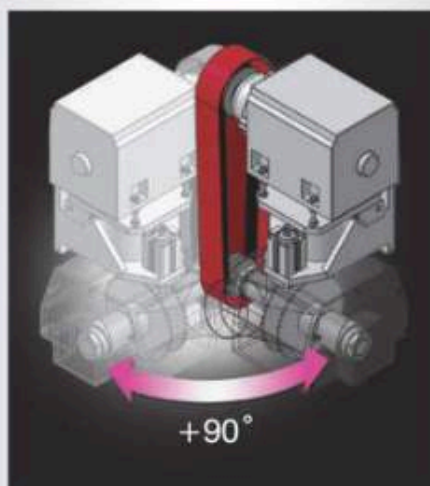


The Spindle can be rotated to various angles for machining with rotating range $\pm 90^\circ$



Spindle Shaper

Allows for vertical or horizontal machining. (Suitable for fitting with shaper cutter or sawblade)



Umbrella Type Tool Magazine



Linear Magazine

- Tool loading capacity 8 or 10 tools.
- Armless type tool change.
- Accommodates ISO 30 tool shank.



Hydraulic Lifting Table

For material infeed.



Belt Type Outfeed Conveyor Table





HSD HIGH-FREQUENCY SPINDLE (ES-951)

- The HSD high-frequency spindle provides a maximum speed up to 24,000 RPM as standard.
- Italian-imported HSD high frequency spindle.
- The spindle accepts ISO 30 tool shank.
- The spindle is air cooled.
- It provides tool shank cleaning effect when changing tool.



MOVING COLUMNS

- The moving-columns structure greatly saves occupied area of the machine.
- The double columns move on heavy-duty linear guide ways, featuring great rigidity and stability.

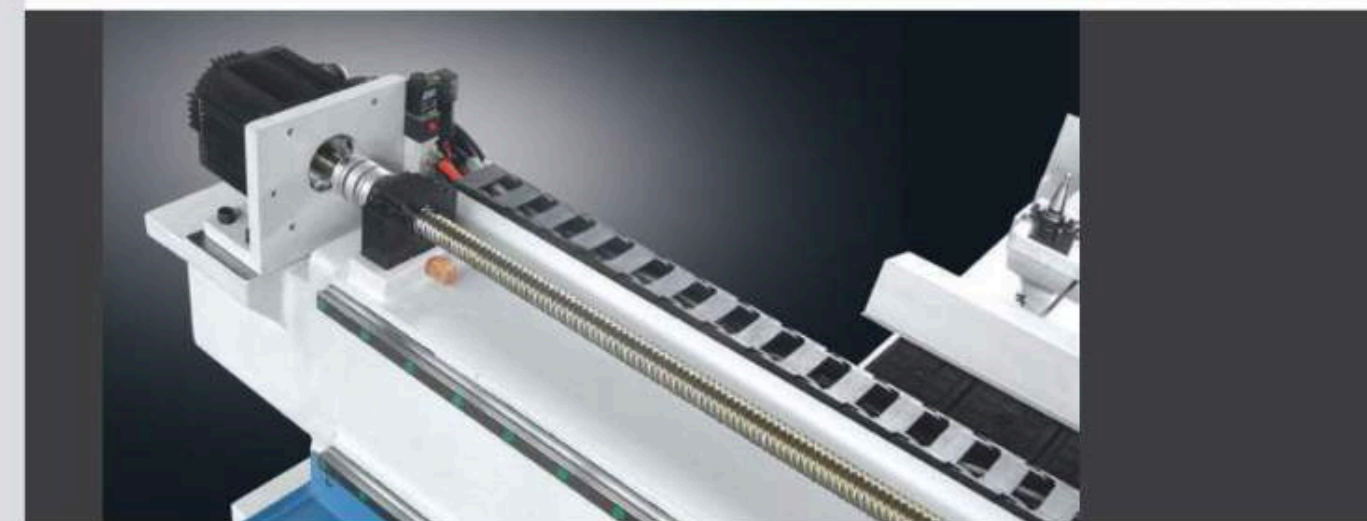


VACUUM PRESSURE METER



POWERFUL VACUUM GENERATOR

Equipped with an electronic detection switch to make sure the workpieces have been fixed securely.



DIRECT DRIVE OF SERVO MOTOR

The servo motor directly drives the ball screw and is transmitted through a coupling for backlash free transmission.



AUTOMATIC LUBRICATOR

- The automatic lubricator delivers lubrication oil to all slideways and feed screws, resulting in extremely smooth movements on 3 axes.
- Lubrication frequency and oil flow may be adjusted as desired.

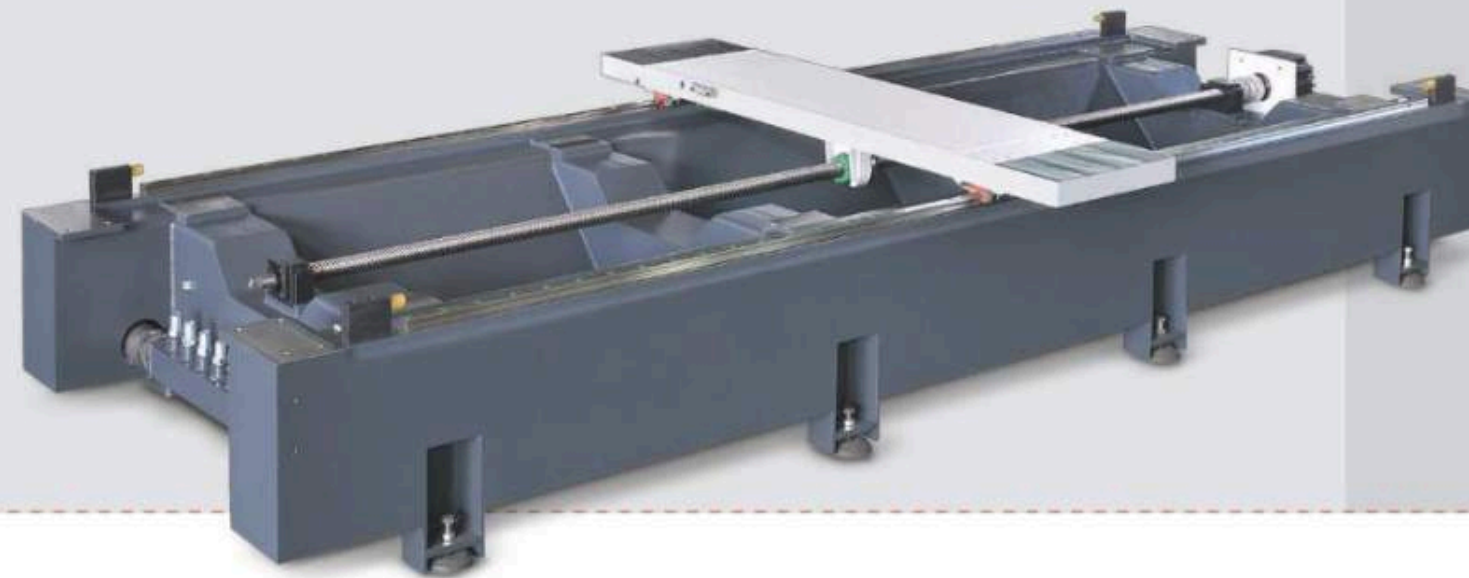


VOLTAGE STABILIZER + TRANSFORMER (Optional)

- For some areas where voltage from power source is unstable, the voltage stabilizer is recommended to stabilize voltage and prevent machine shut down.
- The standard voltage for this machine is 220V. Other voltages should be converted to 220V through the transformer.

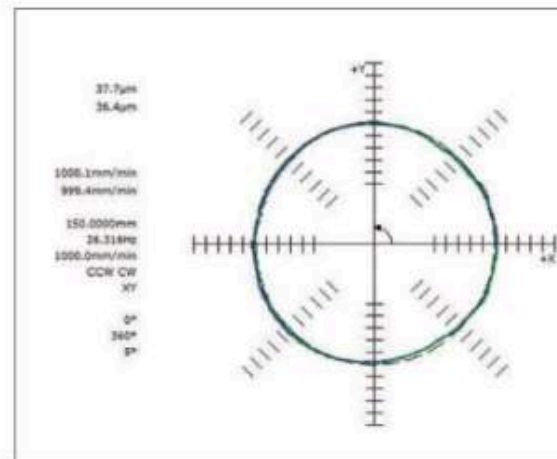
MASSIVE BASE CONSTRUCTION

- The exclusively designed extra large base structure provides a solid support for the entire machine. This design also features the optimal rigidity and stability of structure.
- The base is tempered to relieve internal stress, ensuring that the base is deformation free.



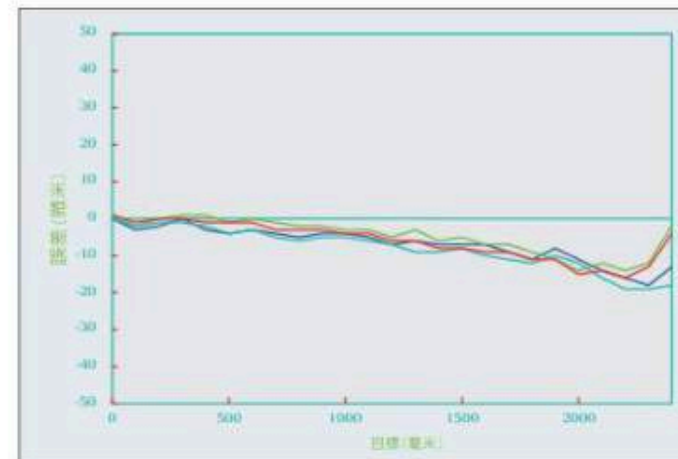
MANUAL TOOL ALIGNMENT DEVICE

This device will ensure cutting depth accuracy to reach 0.01 mm.



BALL BAR TESTING

- A ball bar testing equipment is applied to inspect circularity and geometric accuracy.
- Circularity: ± 0.02 mm.



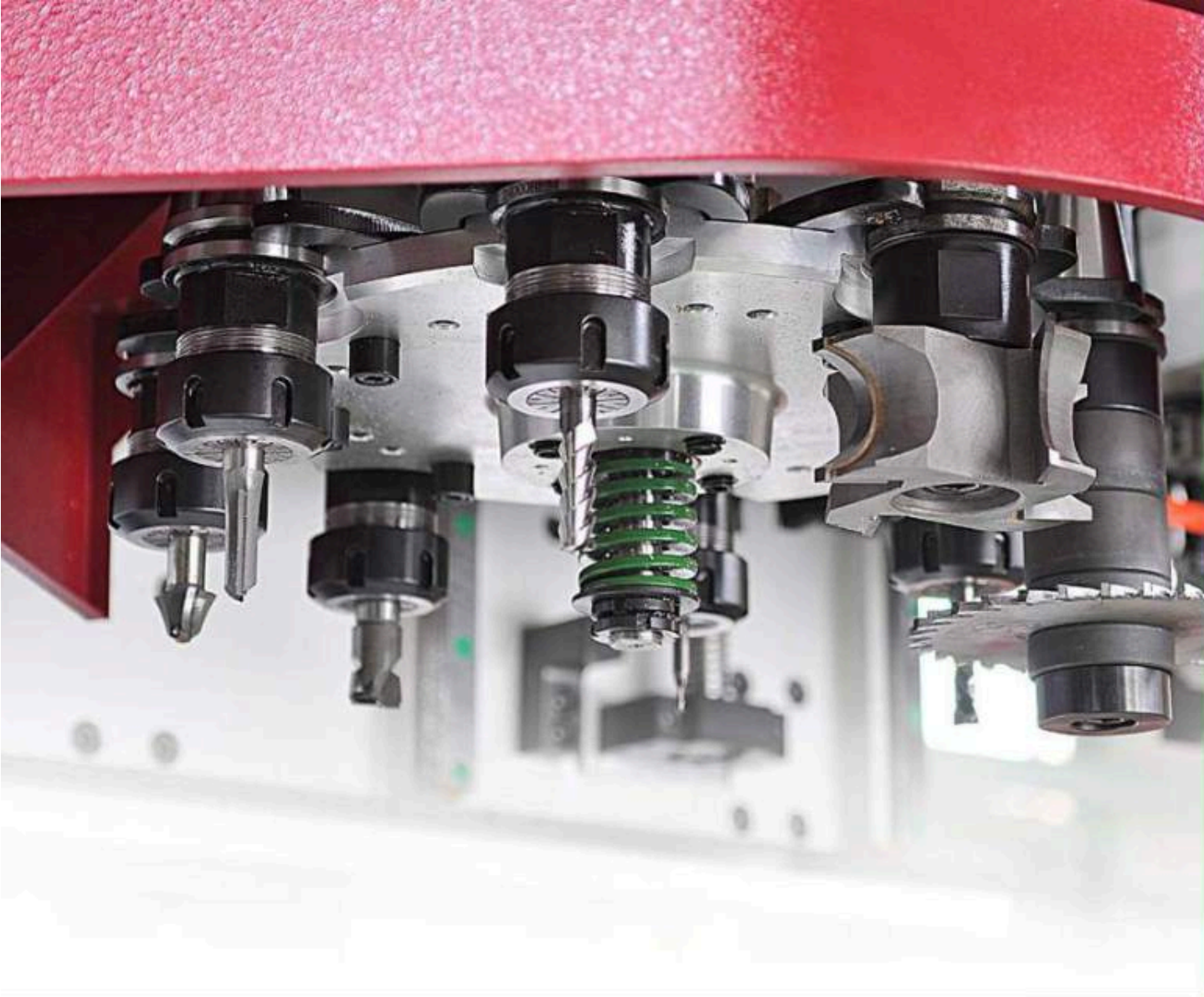
LASER INSPECTION

- Each machine is subject to laser inspections for positioning accuracy, repeatability, screw pitch error and backlash.
- Full travel positioning accuracy: ± 0.03 mm.



AIR CYLINDER COUNTER-BALANCE

The spindle head is counter-balanced by an air cylinder which upgrades machining stability and accuracy.



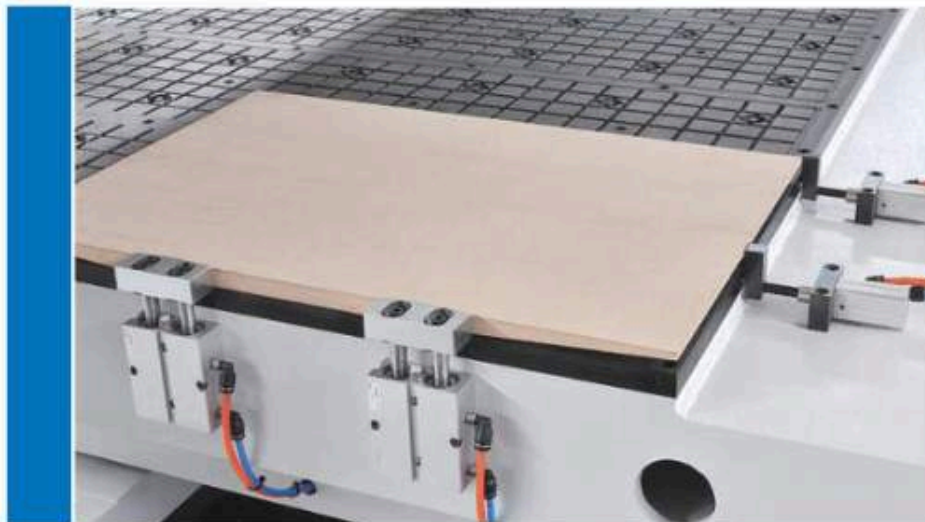
CAROUSEL TYPE TOOL MAGAZINE

- Tool loading capacity: 8 tools.
- Tool shank: ISO 30
- With the use of Japanese made spring, even for a long cutterhead, it will not fall when performing tool change.
- Tool disk is one-piece fabricated from aluminum alloy.



AUXILIARY SWITCHES

- The outfeed end of the machine is equipped with an auxiliary switch box, making it convenient for operator to operate the machine at the outfeed end without need to return to the main operation box.
- 4 auxiliary switches including: vacuum switch, cycle start switch, feed hold switch and emergency stop switch.



PANEL POSITIONING PIECE

- Air change at home point allows panel to position accurately.
- Repetitive panel positioning eliminates troublesome panel repositioning.



INFRARED RAY OPTICAL GRATING

During the machine is running, the optical grating is used to prevent any personnel from entering into the working range of the machine. If a person enters into the range, the machine will shut down automatically.



MANUAL CHANGE OF VACUUM VALVE

To change the vacuum suction area by means of manual vacuum valve.

PC Based CNC Control

User-Friendly Operation

The machine is equipped with a PC based CNC control with powerful functions.

Functions of Windows CE System

- Open type human-machine interfacing.
- USB transfer interface allows for transferring data through internet.
- Chinese / English display.
- High speed and high accuracy.
- Start and stop control for automatic machining cycle and single block execution.



CONTROL BOX

- Provides connection of mouse for operation convenience.
- Use of general standard PC keypad, mouse and screen for increasing convenience of operation.



ADVANCED CONTROLLER

- This machine is equipped with a new generation of 10 series CNC controller in combination with the use of Delta A2 high performance servo motor, providing high precision machining performance.



COMPUTER SCREEN

- It provides Chinese and English display.



CUTTING TOOL COOLING

An air blow tube is equipped at the side of the spindle, which provides direct cooling on the cutting tool. Once the spindle starts running, air blow starts automatically.



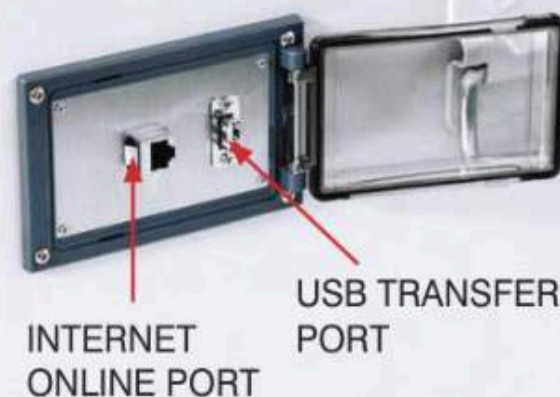
SPINDLE LOAD MONITORING

This function allows for monitoring the spindle load status at any time during cutting. In case overload occurs, the machine stops automatically.



MPG HANDWHEEL

- The MPG handwheel provides convenient cutting. It is used to move 3 axis, actual cutting test and 3 axis feed speeds adjustment.
- Minimum setting unit: 0.001 mm.



INTERNET
ONLINE PORT

USB TRANSFER
PORT

VARIOUS ADVANCED INTERFACES

The controller is provided with two ports for online with internet and features USB transfer function.

Optional Equipment

A wide range of equipment to select



VACUUM MOTOR



HORIZONTAL
SAWBLADE
ASSEMBLY



4H 4-DIRECTION
HORIZONTAL
MILLING
ASSEMBLY



3H 3-SPINDLE
BORING UNIT



UNIVERSAL
MILLING
HEAD



CS-2500 OIL MIST SPRAYER



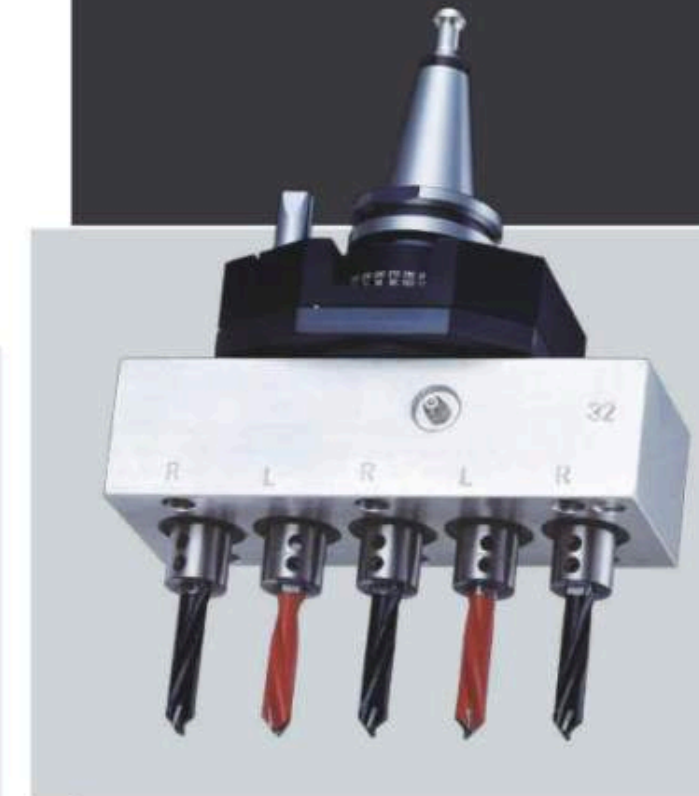
TOOL ALIGNMENT
DEVICE FOR CNC
MACHINE



ISO 30
STANDARD
TOOL ARBOR

ISO 30
MOULDING
TOOL ARBOR

1H1S SIDE
SAWBLADE
ASSEMBLY



5V LINEAR MULTI-
SPINDLE BORING
UNIT



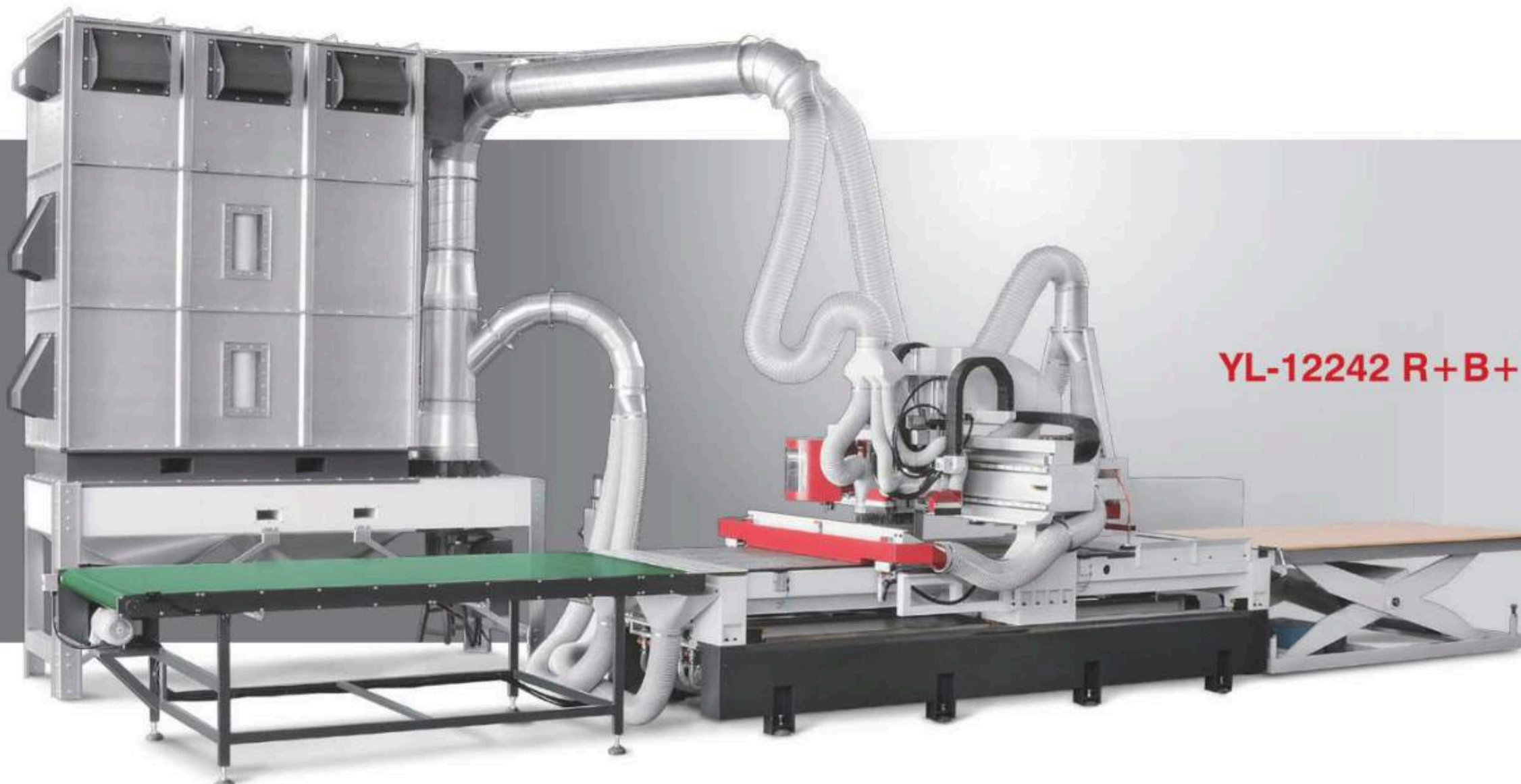
PANEL OUTFEED MECHANISM

- After machining, the panel is pushed out automatically.
- The panel outfeed mechanism is equipped with dust suction hood.



SUCTION CUPS FOR PANEL INFEEED

- The panel infeed is operated by vacuum suction cups.
- Equipped with 6 oversized suction cups with diameter of $\varnothing 130$ mm, providing powerful suction capacity.



YL-12242 R+B+U+N



YUAN LUNG

元隆精密機械廠
蒼隆工業有限公司

台灣 台中市神岡區豐洲路 1166 號

ROUTMAC

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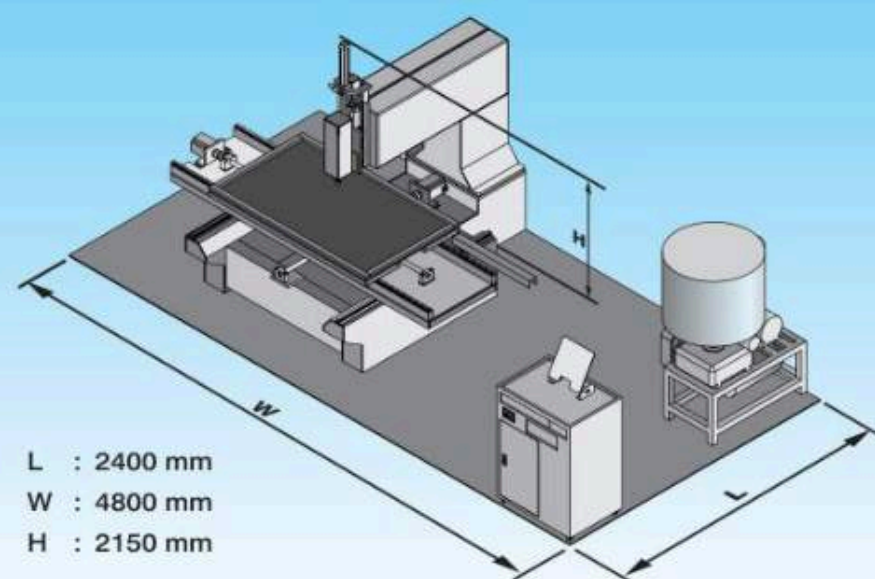
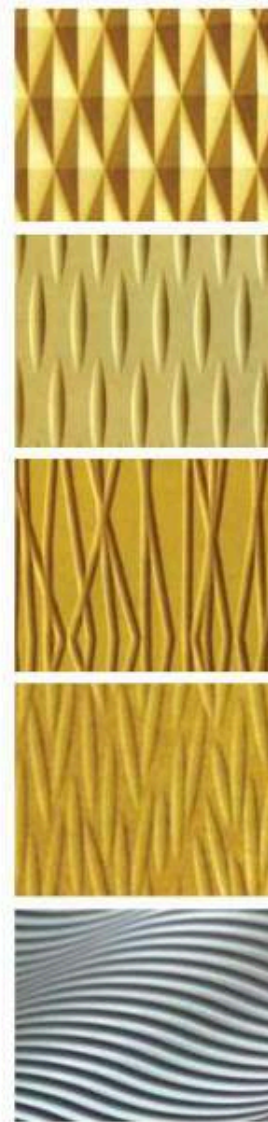
E-mail: ylwm@ms37.hinet.net

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

<https://www.routmac.com>

MODEL		YL-1509
Capacity	Max. workpiece sizes	5 x 3 feet
Travel	X-axis travel	1500 mm
	Y-axis travel	900 mm
	Z-axis travel	230 mm
	Spindle nose to table	235 mm
	Spindle center to column face	950 mm
Table	Table sizes	900x1500 mm
Feed Rate	Cutting feed rate	6 M/min
	X-axis rapid traverse	16 M/min
	Y-axis rapid traverse	16 M/min
	Z-axis rapid traverse	8 M/min
Spindle	Spindle speed (Variable)	1000~18,000 rpm
	Spindle taper	ER 32
	Collet sizes	3~20 mm
Motor	Spindle motor	7 Kw
	X-axis motor	1 Kw
	Y-axis motor	1.5 Kw
	Z-axis motor (With brake)	0.75 Kw
	Vacuum pump motor	5 HP
Others	Air pressure required	6 Kgf/cm ²
	Machine size (LxWxH)	2300x3200x2200 mm
	Packing dimensions (LxWxH)	2520x2280x1800 mm
	N.W. / G.W.	2000 / 2200 kg

• Dimensions and design characteristics shown on this catalog are subject to change without prior notice.



**YUAN LUNG MACHINERY WORKS.
ROUTMAC INDUSTRY CO., LTD.**

No.1166, FENG JOU ROAD, SHEN KANG DIST., TAICHUNG CITY, TAIWAN.

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FAX: +886-4-2562 8398

E-mail: ylw@ms37.hinet.net

http://www.yuanlung.com.tw

CNC ROUTER

**Manual Tool Change !
PC Based CNC Control !
18,000 RPM Spindle Speed !**

YUAN LUNG



**YUAN LUNG MACHINERY WORKS.
ROUTMAC INDUSTRY CO., LTD.**

YUAN LUNG MACHINERY WORKS. ROUTMAC INDUSTRY CO., LTD. 2000 / 2200 kg

CNC Router

Advanced CNC Router Designed to Dramatically Increase Your Machining Efficiency !



YL-1509

PC BASED CNC CONTROL USER-FRIENDLY OPERATION

- The machine is equipped with a PC based CNC control with powerful functions .
- Advanced window CE operation system.
- The CNC control can be online with internet and accomodates USB transfer interface.

FUNCTIONS OF WINDOWS CE SYSTEM

- USB transfer interface.
- Open type human-machine interfacing.
- Data transfer through internet.
- Multi-language display.
- High speed and high accuracy.



POWERFUL VACUUM GENERATOR

The vacuum generator provides extra powerful vacuum for the table, that holds workpiece securely during machining.

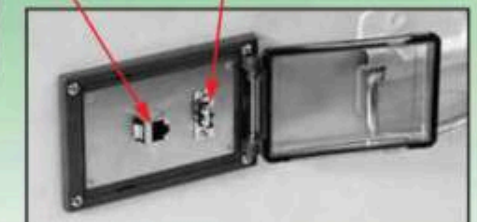


CONTROL PANEL

- Provides connection of mouse for operation control, that increases operational convenience.
- Start and stop controls for automatic cycle and single-block execution.

INTERNET ONLINE PORT

USB TRANSFER PORT



VARIOUS ADVANCED INTERFACES

The controller is provided with two ports for online with internet and features USB transfer function.



AUTOMATIC LUBRICATOR

- The automatic lubricator delivers lubrication oil to all slideways, resulting in extremely smooth movements on 3 axes.
- Lubrication frequency and oil flow may be adjusted as desired.



DEPENDABLE CONTROL CIRCUIT

The control circuit uses high quality electronic parts, that feature maximum dependability of motion controls and long service life.

VARIABLE SPINDLE SPEED BY FREQUENCY INVERTER CONTROL

- The spindle running is controlled by a frequency inverter, allowing for variable speed change.
- Wide spindle speed range from 1000 to 18,000 RPM makes the machine ideal for cutting various types of wood material.



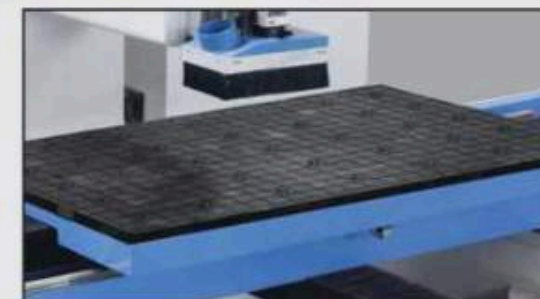
HSD HIGH-FREQUENCY SPINDLE

- The HSD high-frequency spindle provides a maximum speed up to 18,000 RPM as standard.
- The spindle accepts ER 32 tool shank.
- Equipped with air cooling unit.



DIRECT-DRIVE BALL SCREW ON X/Y/Z-AXIS

- The X/Y/Z-axis ball screw is directly driven by a servomotor, which eliminates backlash problem while providing positive transmission effect.
- A coupling is equipped between the servo motor and the ball screw, that provides accurate transmission of the desired motion produced by the servo motor.



VACUUM SUCTION TABLE

- The table is fitted with a compact board drilled with holes for vacuum suction.
- The positions of vacuum suction holes can be drilled according to customer's workpiece types.



VACUUM PRESSURE METER

A vacuum pressure meter is provided at the front of the table for checking vacuum pressure. The machine does not operate until the vacuum pressure reaches the setting value.



YL-3015 PTP

動柱式移動檯面 MOVING BRIDGE CONSOLE TABLE

產品特性

Product characteristics

- 本機可以不停機換料加工，有左右雙面雙工位及四工位供選擇，其優點為效率高，五面鑽孔，自動排屑
Unfailing work piece processing, two-station working table and four-station working table choose by customer. Five sides diling, Automatic chip removal.
- 精密氣排鑽可輕鬆解決立鑽、側鑽、槽鑽等加工問題。
Precision gas drilling row drilling legislation can be easily resolved, lateral drilling, sawing and other processing problems trough.
- 訂製化廚櫃、衣櫃、酒櫃、視聽櫃等專業數控鑽機。
Custom of kitchen wardrobe, wine, and other professional audio-visual cabinet CNC drilling machine.



動柱式移動檯面 MOVING BRIDGE CONSOLE TABLE

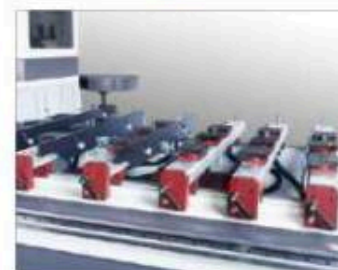


木屑輸送皮帶機

機台配置木屑粉塵輸送機，可將加工後殘餘料自動排出。

Sawdust belt

conveyor Machine Configuration wood dust conveyor, the residual material can beprocessed automatically discharged .



PTP 真空吸附台

六組移動式真空吸附台，左右區四工位的加工設計。

PTP vacuum table

Six group of mobile vacuum adsorption table. Four - station working table designed.



離心式真空泵

4.8kw-140m³/h 排氣量的離心式真空泵，並配置可透視過濾器及真空破壞功能。

Centrifugal pumps

4.8kw-140m³/h centrifugal pumps, Matched perspective filter and vacuum breaking function.

PC Based CNC 控制介面



採用 SYNTEC 新代控制系統，友善簡易操作介面

多功能人機模組化圖示加工參數。

Equipped with a SYNTEC control system with user-friendly and easy to operate interface. Multi-function modular graphic machining parameters.

主要功能 MAJOR FUNCTIONS:

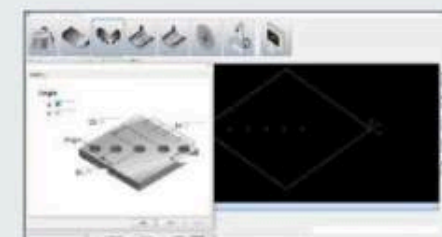
- 工作六面體選擇介面 Hexahedron selection interface
- 鑽孔加工介面 Drilling interface.
- 側邊加工介面 Edge machining interface.
- 袋銑加工介面 Pocket milling interface
- 鋸切加工介面 Sawing interface

Windows 作業系統功能 FUNCTIONS OF WINDOWS OPERATION SYSTEM:

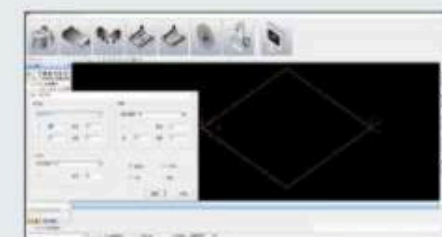
- 開放式人機介面。Open type human-machine interfacing
- USB 傳輸介面，可經由網路傳送資料。
USB transfer interface provides data transfer through internet.
- 提供中 / 英文顯示 Chinese/English display.
- 高速、高精度。High speed, high accuracy.
- 自動加工模式啟動及停止控制。單節程式執行。
Automatic machining mode start and stop control. Single block execution.

機械規格 Specifications YL-3015 PTP

真空吸附台 Vacuum table	吸附台 Table size: 1500mm x 6pcs
	真空吸盤 Pods: 135x135x50mm x 24pcs
	前定位氣缸 Front stops: 6pcs
	中間定位氣缸 Intermedia stops: 6pcs
	移動式定位氣缸 Positioning air cylinder: 4pcs
位移速度 Rapid speed	支撐板上下機構 Panel lifting blades: 6pcs
	加工範圍 Working area: 3000x1500mm
	xaxg 軸 -3570mm. Y 軸 -1800mm. Z 軸 -370mm
動力 Main power	工件高度 Working height: 200mm
	主軸功率 Spindle power: 9.6KW ISO30
	真空泵 Vacuum pump: 4.8kw-140m³/h
位移速度 Rapid speed	氣排鑽 Pneumatic line boring head: 9V4H2S 2.5HP
	X&Y 軸 -80M/min
	Z 軸 -20M/min
機械尺寸 Dimensions	面積 Area: 5300x5250x2500mm
	淨重 Net weight: 4500kg



• 多孔排鑽加工
MULTIPLE HOLES LINE BORING



• 三合一加工 (KD 孔加工)
THREE IN ONE MACHINING
(KD HOLE MACHINING)



ROUTMAC

元隆精密機械廠 / 蒼隆工業有限公司
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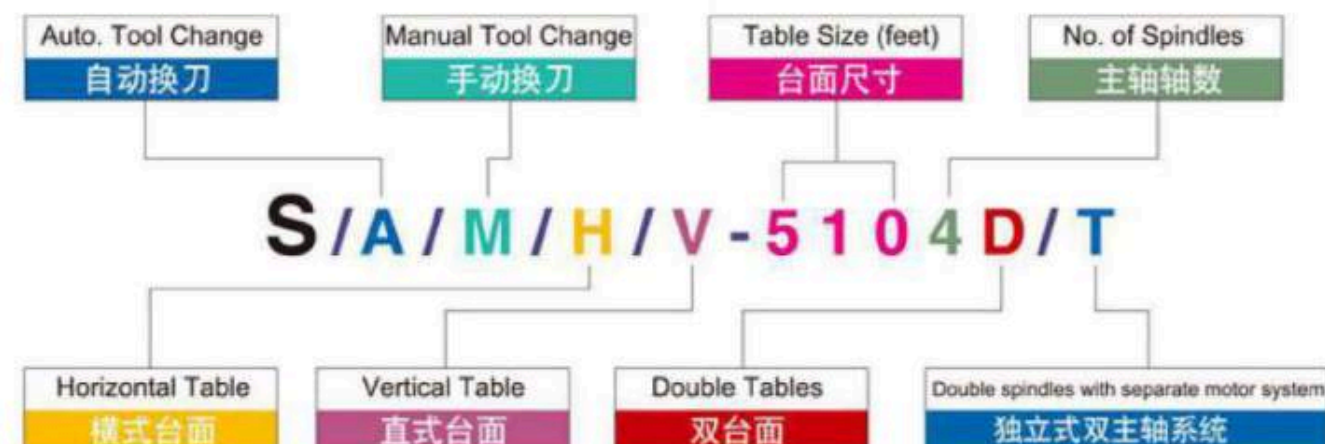
https://www.routmac.com

CNC 非金属电脑加工中心机 CNC NON-METAL MACHINING CENTER



www.routmac.com

机型编号介绍 Introduction for Model of machine



机械特性 FEATURES OF MACHINING



手动换刀四主轴及单台面

MANUAL TOOL CHANGE 4 SPINDLES AND ONE TABLE

适合简单量产的加工组合，主轴数可扩充至八主轴设计。

Suitable for simple and mass production. This design may expand to 8 spindles.

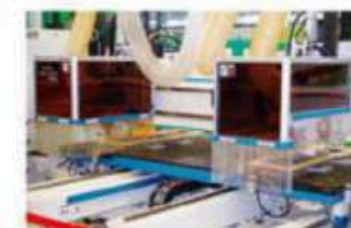


自动换刀四主轴及双台面

AUTOMATIC TOOL CHANGE 4 SPINDLES AND TWO TABLES

适合复杂量产的加工组合，主轴数可扩充至六主轴设计，双台面一边加工一边换料，节省人工换料时间。

Suitable for complicated, mass production. This design may expand to 6 spindles. Also when one table is working, the other table may feed in material at same time to save changing material time.



独立式双主轴

TWO INDEPENDENT SPINDLES

适合左右对称及相同产品的加工组合，伺服轴数有XYZWU五轴连动，可搭配双台面同时加工左右不同工件的生产方式。

Suitable for processing two same type work pieces and bilateral symmetry work pieces. Besides, servo axes have X Y X W U total 5 axes interpolation. In two working table design, it can process two different type work pieces at same time.



同动式双主轴

INTERPOLATION TWO SPINDLES

适合相同产品的加工组合，伺服轴数有XYZ三轴连动，可搭配双台面一边加工一边换料的生产方式。

Suitable for same type work pieces processing combination. Servo axes has X Y Z interpolation. In Two working table, processing can be on one table and changing material on the other table.



Y轴辅助导轨

Y AXIS AUXILIARY GUIDE WAY

工作台左右加装两轴辅助导轨，可提高快速位移时的稳定性及防止工作台的变形。

Install two sets of auxiliary guide ways on both sides of working table may increase the stability of rapid moving and prevent working table changing type.



雷射真直度检测

LASER CORRECT REALLY STRAIGHT

大型机加工件经过精密雷射真直度仪器检测确认，以确保机械的组装精度。

In big size machine, when machine parts corrected by laser really straight device, the assembly precision is assured.

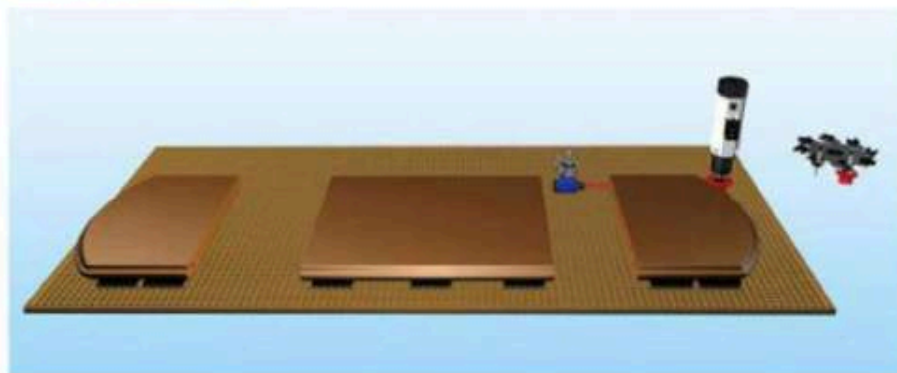
www.routmac.com

YL-SAH-681

Transverse nesting table



3D模拟加工效果图



加工范例



机械特性

- 适合低产量多样化的生产模式，属于经济重切削的加工设备。
- 工作台可整张大板直接吸附加工，不需经过任何裁切的备料动作。
- 配合可调式移动真空吸盘吸附工件，定位块可以快速上下料加工。
- 适合加工实木餐桌椅、茶几桌、床头板、办公桌等。

FEATURES OF MACHINING

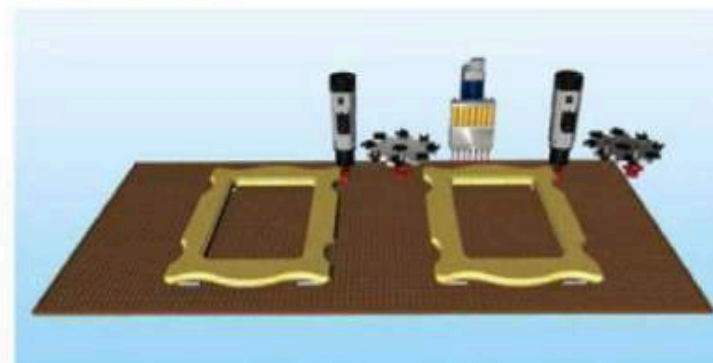
- This is an economy and heavy duty machining equipment, producing pattern is for various types of work piece and in small quantities.
- Full sheet of board can be adsorbed and processed directly on working table, no need prior preparing material, such as prior cutting.
- Positioning block can do quick material feed in and feed out when using together with movable, adjustable vacuum pad to adsorb work piece.
- Ideal for processing solid wood dining table, solid wood dining chair, solid wood tea table, solid wood bedside board, solid wood office table, etc.

YL-SAH-482(7v)

Transverse nesting table



3D模拟加工效果图



加工范例



机械特性

- 适合高产量多样化的生产模式，属于量产高效率的加工设备。
- 配合可调式移动真空吸盘吸附工件，定位块可以快速上下料加工。
- 同动双主轴设计，可调整两轴间距及同时加工两件相同工件。
- 适合加工实木茶几桌、音响箱面板、石化过滤板、红木家具等。

FEATURES OF MACHINING

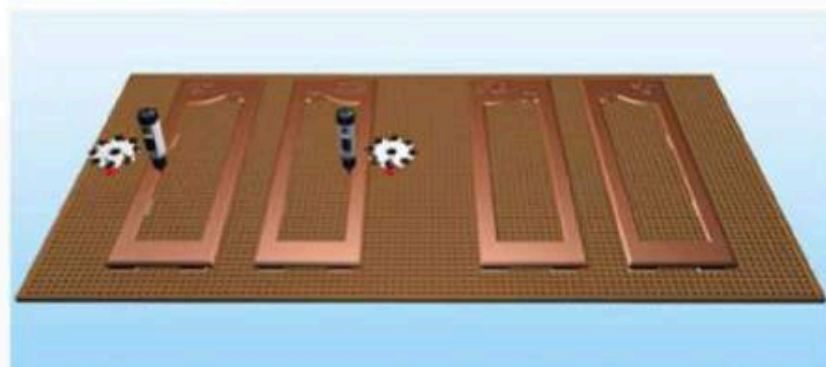
- This is a mass producing, high efficiency machining equipment, producing pattern is for various types of work piece and in high productivity.
- Positioning block can do quick material feed in and feed out when using together with movable, adjustable vacuum pad to adsorb work piece.
- Design of two spindles moving together, the spacing of the two spindles may be adjusted, also the two spindles may process same type of work piece at same time.
- Ideal for processing solid wood tea table, audio box, filter sheet for petrochemical industry, and solid wood furniture, etc.

YL-SAH-5102T

Transverse nesting table



3D模拟加工效果图



加工范例



机械特性

- 适合高产量多样化的生产模式，属于量产高效率的加工设备。
- 配合可调式移动真空吸盘吸附工件，定位块可以快速上下料加工。
- 独立双主轴设计，可同时加工左右对称工件，及同时加工两件相同工件。
- 适合加工实木书柜、视听柜、实木楼梯、实木衣柜等。

FEATURES OF MACHINING

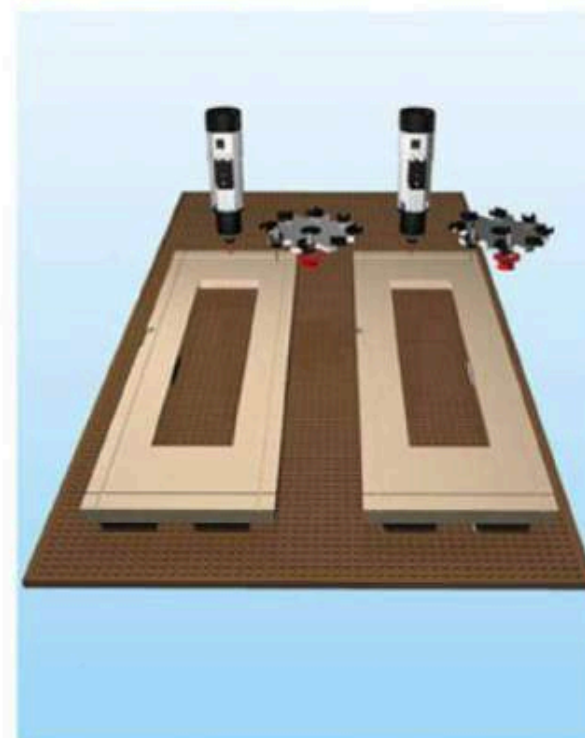
- This is a mass producing, high efficiency machining equipment, producing pattern is for various types of work piece and in high productivity.
- Positioning block can do quick material feed in and feed out when using together with movable, adjustable vacuum pad to adsorb work piece.
- Design of two independent spindles, the two spindles can process two bilateral symmetry work pieces, also can process two exact same work pieces.
- Ideal for processing solid wood bookcase, solid wood TV stand and cabinet, solid wood stairs, solid wood wardrobe, etc.,

YL-SAV-6102

Longitudinal nesting table



3D模拟加工效果图



加工范例



机械特性

- 适合高产量多样化的生产模式，属于量产高效率的加工设备。
- 配合可调式移动真空吸盘吸附工件，定位块可以快速上下料加工。
- 直式台面及同轴双主轴设计，可调整两轴间距及同时加工相同两件工件。
- 适合加工实木衣柜、人造流理台面、实木视听柜、实木楼梯等。

FEATURES OF MACHINING

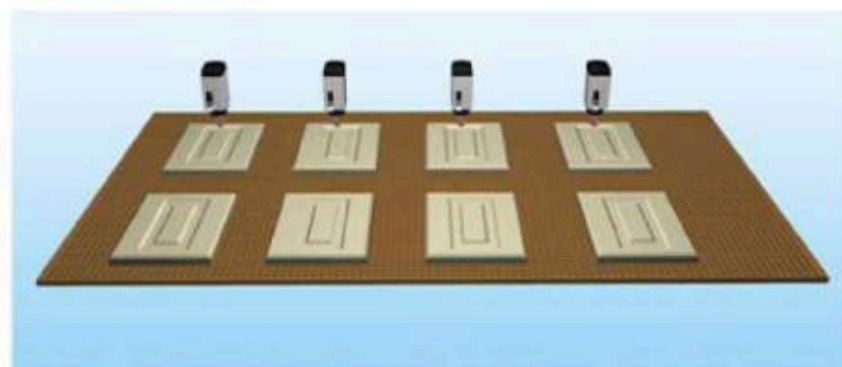
- This is a mass producing, high efficiency machining equipment, producing pattern is for various types of work piece and in high productivity.
- Positioning block can do quick material feed in and feed out when using together with movable, adjustable vacuum pad to adsorb work piece.
- Designs of vertical working table and the two spindles working together, the spacing of the two spindles may be adjusted, also the two spindles may process same type of work piece at same time.
- Ideal for processing solid wood wardrobe, artificial stone table for kitchen, solid wood audiovisual cabinet, solid wood stairs, etc.

YL-SMH-484

Transverse nesting table



3D模拟加工效果图



机械特性

- 适合高产量简化的生产模式，属于经济量产型的加工设备。
- 配合可调式移动真空吸盘吸附工件，定位块可以快速上下料加工。
- 四轴间距可任意调整加工四件相同工件，以及主轴可任意排列组合加工。
- 适合加工实木马桶盖、音箱面板、实木桌椅、实木茶几桌等。

FEATURES OF MACHINING

- This is a mass producing, economy machining equipment, producing pattern is for simple type work piece and in high productivity
- Positioning block can do quick material feed in and feed out when using together with movable, adjustable vacuum pad to adsorb work piece.
- The spacing among 4 spindles can be adjusted at random for processing 4 pieces of same work pieces,also the spindles can process work pieces at any arrangement combination.
- Ideal for processing solid wood toilet seat cover, audio and audiovisual cabinet, solid wood table and chair, solid wood tea table, etc.

加工范例

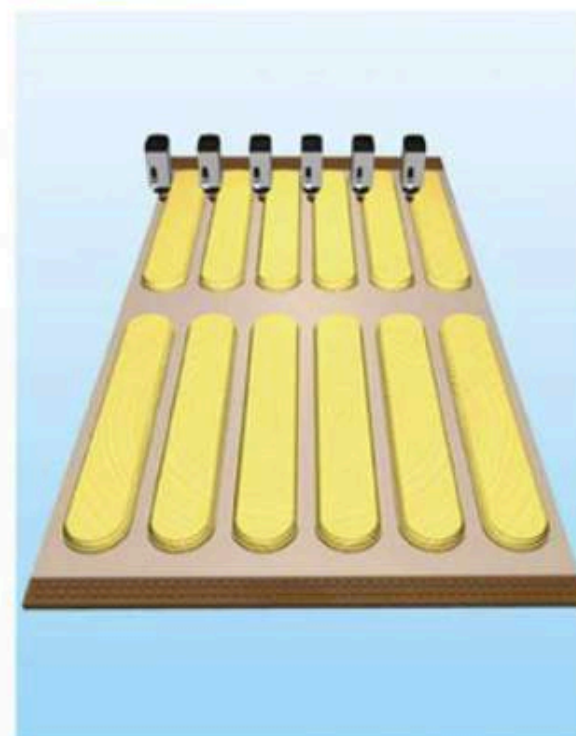


YL-SMV-6106

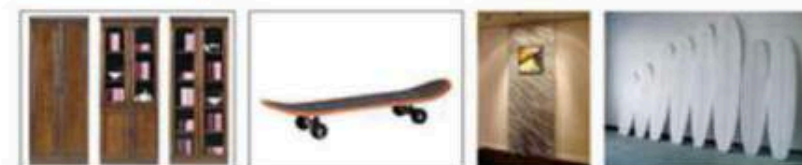
Longitudinal nesting table



3D模拟加工效果图



加工范例



机械特性

- 适合高产量简化的生产模式，属于经济量产型的加工设备。
- 配合可调式移动真空吸盘吸附工件，定位块可以快速上下料加工。
- 六轴间距可任意调整加工六件相同工件，以及主轴可任意排列组合加工。
- 适合加工波浪装饰板、多层滑板、冲浪板、实木书柜等。

FEATURES OF MACHINING

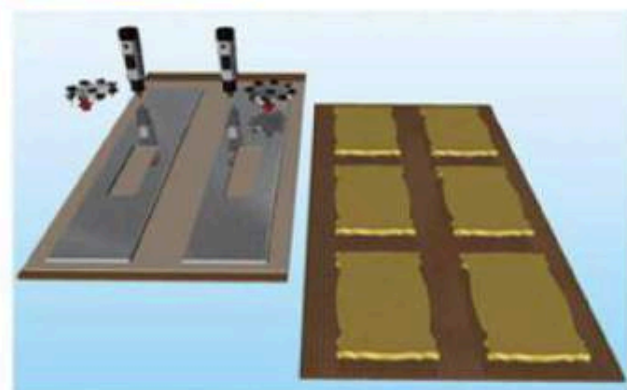
- This is a mass producing, economy machining equipment,production pattern is for simple type work piece and in high productivity.
- Positioning block can do quick material feed in and feed out when using together with movable, adjustable vacuum pad to adsorb work piece.
- The spacing among 6 spindles can be adjusted at random for processing 6 pieces of same work pieces,also the spindles can process work pieces at any arrangement combination.
- Ideal for processing wavy decoration board, multi-layer plywood skateboard solid wood bookcase, etc.,

YL-SAV-482D

Longitudinal nesting table



3D模拟加工效果图



加工范围



机械特性

- 适合高产量多样化的生产模式，属于量产高效率的加工设备。
- 同动双主轴设计，可调整两轴间距及同时加工两件相同工件。
- 双台面设计，可左边台面加工时右边台面换料的不间断生产。
- 适合加工实木卧室家具、实木门、实木餐桌椅、实木客厅桌椅等。

FEATURES OF MACHINING

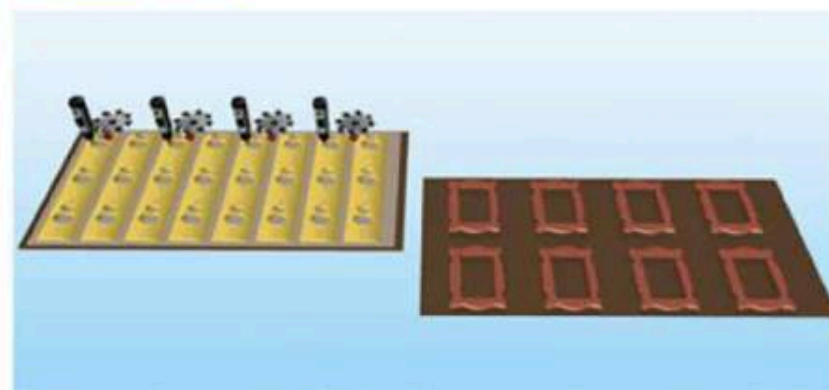
- This is a mass producing, high efficiency machining equipment, producing pattern is for various types of work piece and in high productivity.
- Design of two spindles moving together, the spacing of the two spindles may be adjusted, also the two spindles may process same type of work piece at same time.
- Design of two working tables. When left zone is replacing material, right zone is still working, and vice versa. Thus production process always continues. Ideal for processing solid wood furniture for bedroom, solid wood door, solid wood dining table and chair, solid table and chair for living room, etc.

YL-SAH-5104D

Transverse nesting table



3D模拟加工效果图



加工范围



机械特性

- 适合高产量多样化的生产模式，属于量产高效率的加工设备。
- 同动四主轴设计，可调整四轴间距及同时加工四件相同工件。
- 双台面设计，可左边台面加工时右边台面换料的不间断生产。
- 适合加工针车台板、绣花机台板、电脑桌、实木茶几桌、实木音箱等。

FEATURES OF MACHINING

- This is a mass producing, high efficiency machining equipment, producing pattern is for various types of work piece and in high productivity.
- Design of 4 spindles moving together, the spacing among the 4 spindles may be adjusted, also the 4 spindles may process same type of work pieces at same time.
- Design of two working table. When left zone is replacing material, right zone is still working, and vice versa. Thus production process always continues.
- Ideal for processing sewing machine's top board, embroidery machine's top board, computer table top, solid wood tea table, solid wood audio box, etc.