

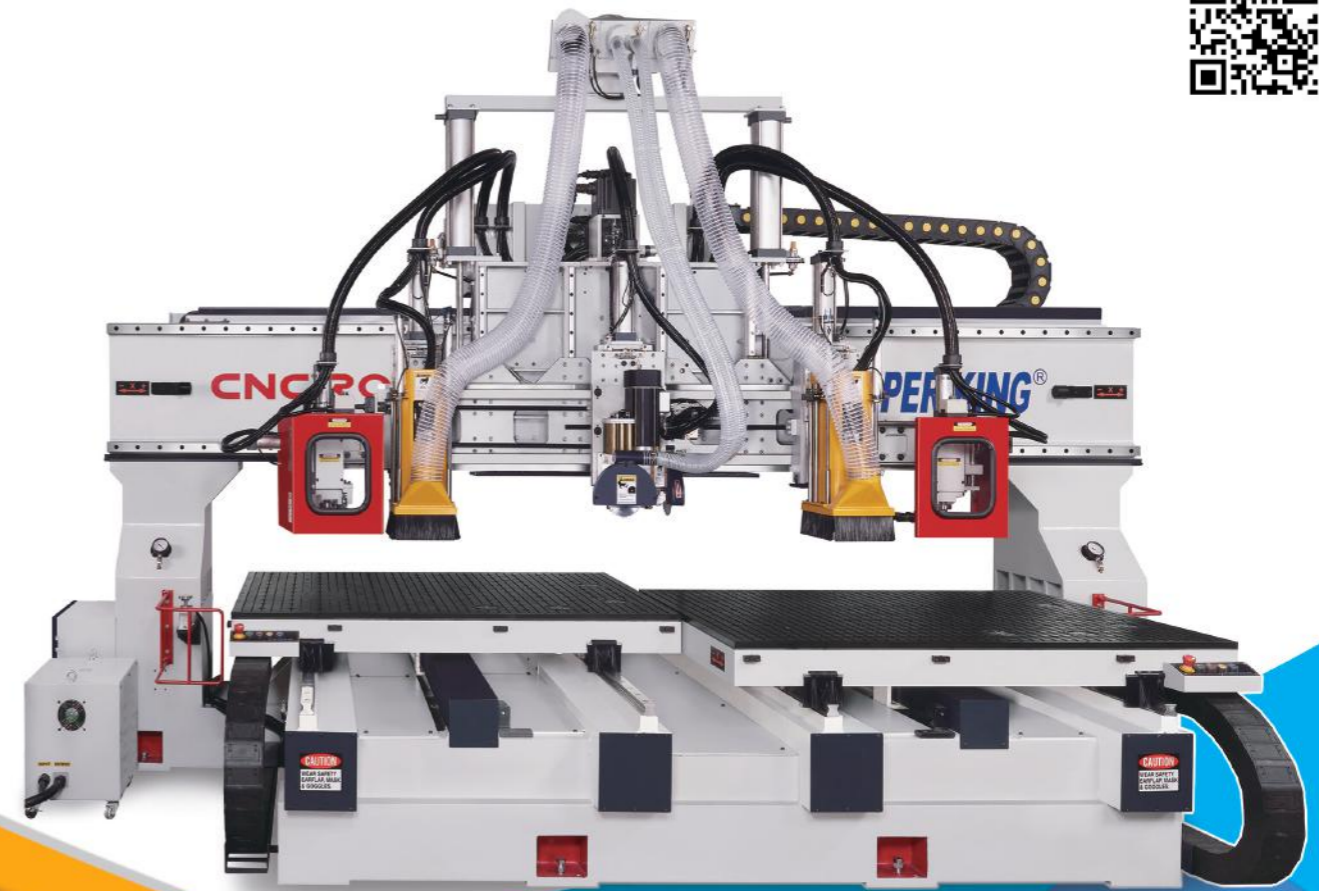
LIH WOEI & SHAPER KING®

利瑋精密科技有限公司
利偉木工機械有限公司

LIH WOEI & SHAPER KING®



WOOD WORKING , PLASTIC , CNC Machining Centers



Typical applications:
cabinet doors,
solid wood doors,
computer desks and
panel type furniture

利瑋精密科技有限公司
利偉木工機械有限公司

LIH WOEI CARPENTRY MACHINE CO., LTD.

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WOOD WORKING / PLASTIC

CNC Machining Centers

Suitable for machining complex
parts of various types of products.

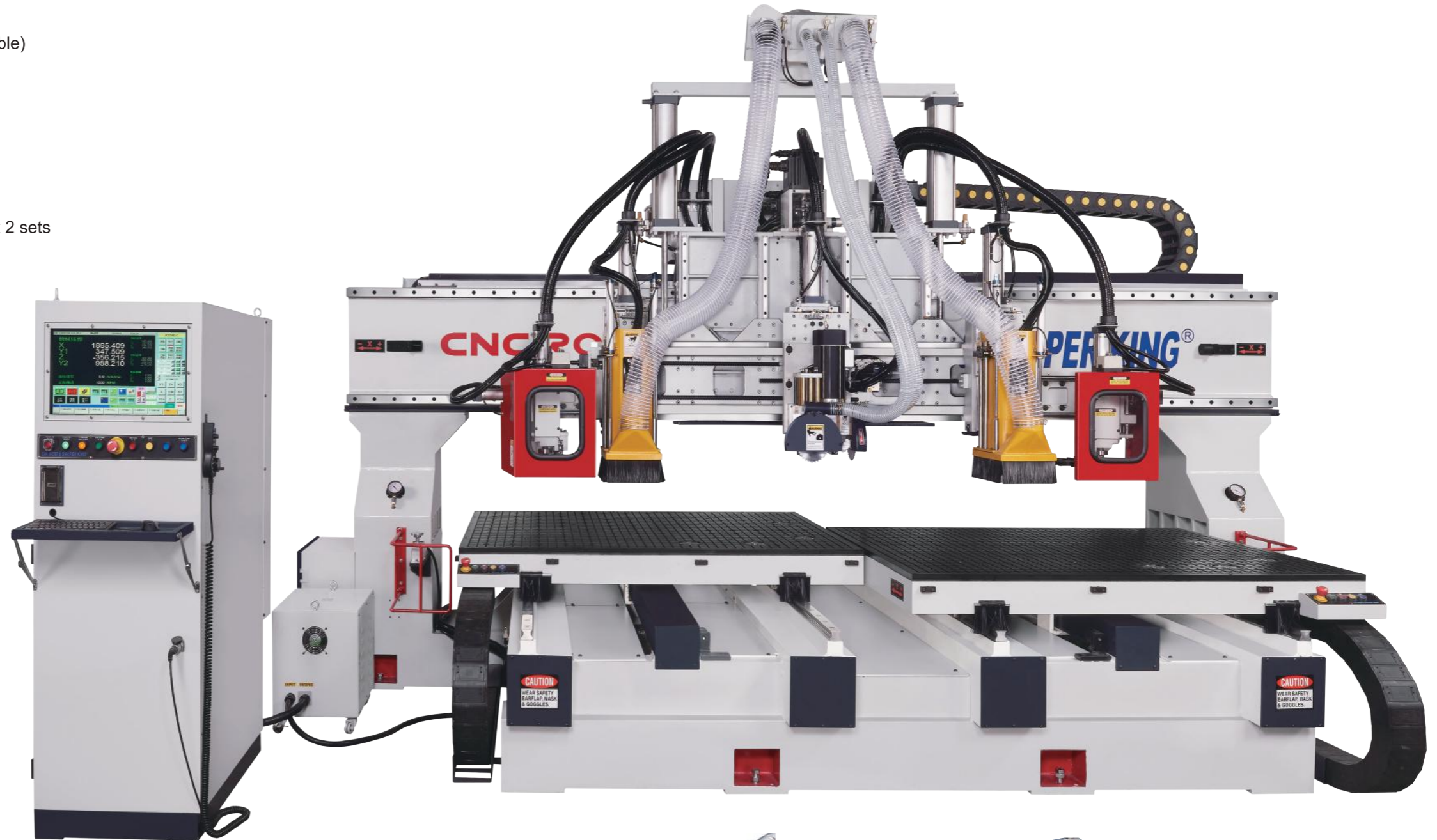
Twin Table CNC Router

With Twin Table Machine You Will Be Able To

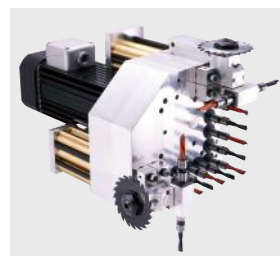
- working a single program on two different tables.
- working two different program on two different tables.
- bore door frame by using 9 boring head with 2 horizontal side boring.

Features:

- Table size : 2400 x 1600 mm x 2 (customized available)
- Max working height : 400 mm
- Stroke X : 4820 mm
Stroke Y : 1700 mm
Stroke Z : 400 mm
- Rapid X & Y Axis : 80 M/m
Rapid Z Axis : 20 M/min
- Distance between Axis & Axis : 900 ~ 2400 mm
- Servo motor(X/Y/Z) : 3 kw
- Tool change & capacity : 8-position drum type ATC x 2 sets
- Spindle: Italy HSD 9kw x 2 ; 1000-24000 r.p.m.
- Vacuum pump : 7.5 HP x 2
- Controller : SYNTECH (HIGHTEST)
- Boring heads unit : 1.75 kw
- Dimension : 6120 x 3120 x 2320 mm



日本精密型行星減速器
Japan brand Planetary Reducers



9頭排鑽
9 boring Heads



傘型刀庫
Drum type ATC

*For more information please contact us.



螺桿
Ball screw



真空幫浦
Vacuum pump

LH-481-SA

CNC 4'x8' Machining Center with Roller Hold Down

Features:

- Spindle:HSD(Italy)
- High intensity machine base
- PC base CNC controller system
- Vacuum absorb system and fix up table
- Lin Woei's format for X axis helical rank with grinding quality.
- Z,Y Axis used by highly intensity ball screw.
- Auto. tool measurement system.
- Full working area auto. lubrication system.
- Table Size : 1250 x 2470 mm
- Max. working area : 1250x2470 mm
- Working height : Max.250 mm
- Rapid speed X,Y,Z Axis : 55 & 55 & 20 M/min



LH-481-R

CNC 4'x8' Machining Center with Rotation Head

Features:

- Table size : 1250 x 2470 mm
- Max working height : 700 mm
- Stroke X : 2470 m/m
- Stroke Y : 1250 m/m
- Stroke Z : 250 m/m
- Rapid X & Y Axis : 55 M/m
- Rapid Z Axis : 20 M/min
- Servo motor(X/Y/C) : 1.5 kw
- Servo motor(Z) : 1 kw
- Tool change & capacity : 8-position ATC
- Spindle : Italy HSD 9kw ; 1000-24000 r.p.m.
- Vacuum pump : 7.5 HP
- Controller : SYNTECH (HIGHTEST)



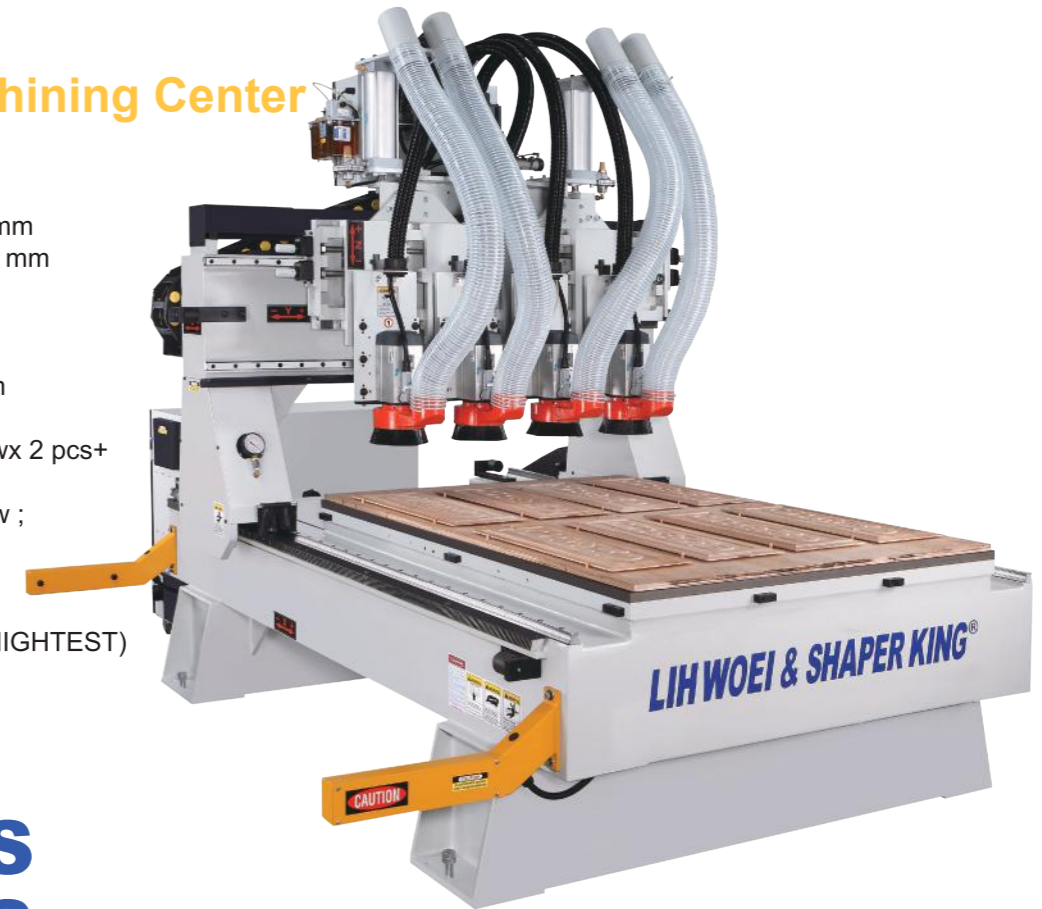
*For more information please contact us.

LH-484

CNC 4'x8' Machining Center

Features:

- Four Head CNC Router
- Table size :1500 x 1230 mm
- Max working height : 300 mm
- Stroke X : 1530 mm
- Stroke Y : 1260 mm
- Stroke Z : 250 mm
- Rapid X & Y Axis: 55 M/m
- Rapid Z Axis : 20 M/min
- Servo motor(X/Y/Z) : 1 kwx 2 pcs+ Planetary Reducers
- Spindle : Italy HSD 4.5 kw ; 1000-20000 r.p.m.
- Vacuum pump : 7.5HP
- Tool holder taper : ER-32
- Controller : SYNTECH (HIGHTEST)



LH-481-S LH-510-S

CNC 4' x 8' / CNC 5' x 10' Machining Center



- Spindle: HSD (Italy) High frequency motor 9KW (12HP) for ATC (auto.tooling change)
- High efficiency drum type ATC
- High intensity machine base (be able to customized working table)
- PC base CNC controller system (providing guests customized models to meet special needs of guests interface)

- Vacuum absorb system and fix up table (including vacuum pump motor: 7.5HP)
- Lih Woei's format for X axis helical rank with grinding quality
- Z, Y Axis used by highly intensity ball screw
- Auto. tool measurement system
- Full working area auto. lubrication system

Precision Mini 5-Axis CNC Machining Center

Features:

- Machine Size :Height : 1720 mm
Depth x Width : 750 x 700 mm
Weight : 200 kg
- Work Table :
A . Max. Speed : 24000 r.p.m.
B . Max. Power : 750W
C . Table diameter : 130mm
- a . Stroke
X : 200 mm, Y : 150 mm, Z : 180 mm
B : (+) 110° ~ (-)30° C : 360
- b : Resolution
Optical Scale : 0.5 μm Optional
Foot Ring : 4 arc sec Optional
Motor Resolution : 20 bit / rev
- c : Repeatability
X/Y/Z : (+) (-) 3 μm B/C : (+) (-)20 arc sec



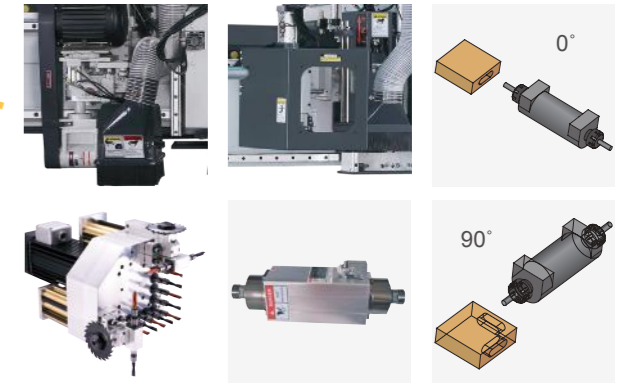
Precision 5-Axis CNC Machining Center

Features:

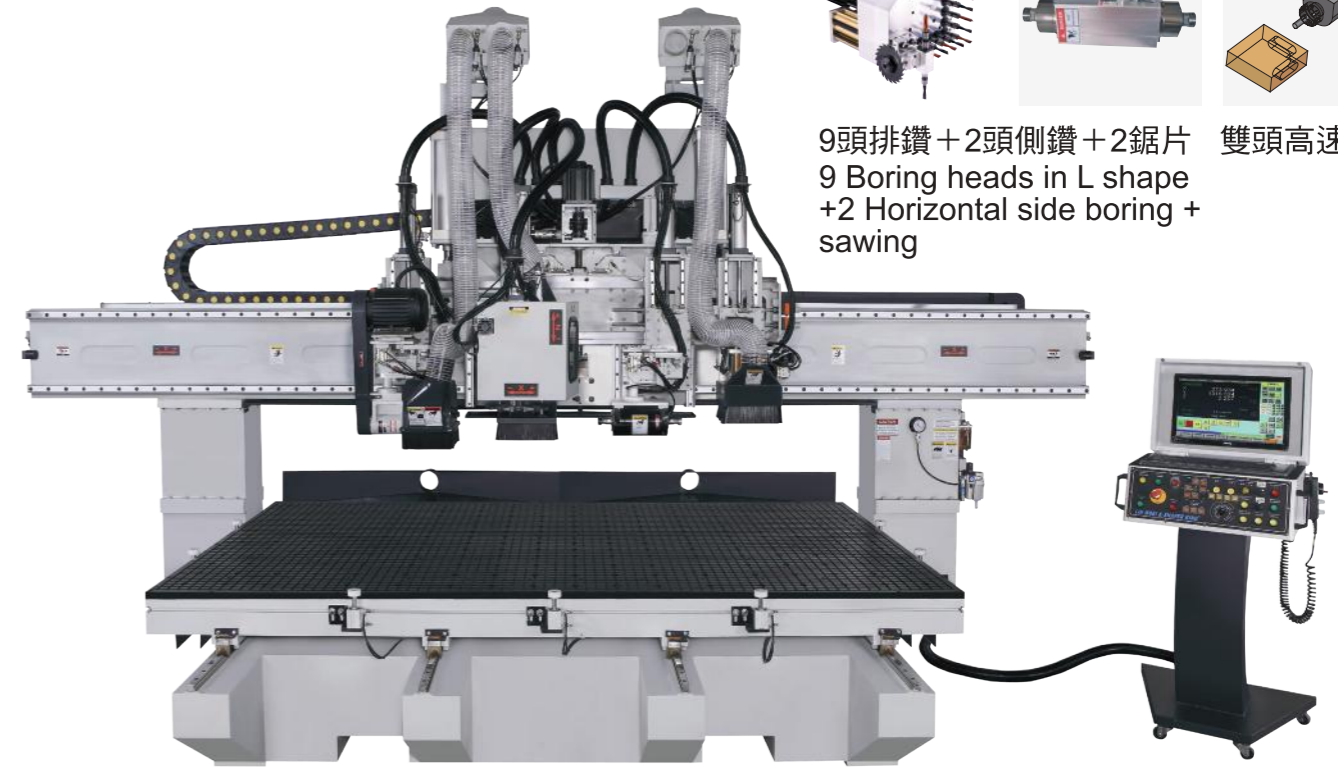
- Table Size : 1250 x 2470 mm
- Max. Working Size : 1250 x 2500 mm
- Stroke X-Axis : 2500 mm, Servo : 4.5 Kw
Stroke Y Axis : 1250 mm, Servo : 4.5 Kw
Stroke Z Axis :
500 ~ 800 Mm ; Servo : 4.5 Kw
- A-Axis:(+) (-)120° : Servo : 800 W
C-Axis : (+) (-)245° , Servo : 800 W
- Rapid X & Y Axis : 45 M/Min
Rapid Z Axis : 20 M/Min
Spindle Power”
- Italy / Hsd15 kw (Hsk63f)
- Spindle Speed : 6000 ~ 24,000 RPM
- Measure Router Bit Of Tool : 1 Pc
- Controller Sysrwm : Fanuc : 31 i
- Electricity Handle-Wheel : 1Pc



LH-5124-B CNC 5'x12'- 4 Machining Center



9頭排鑽 + 2頭側鑽 + 2鋸片 雙頭高速主軸
9 Boring heads in L shape + 2 Horizontal side boring + sawing



LH-8402 CNC 8'x40' Machining Center



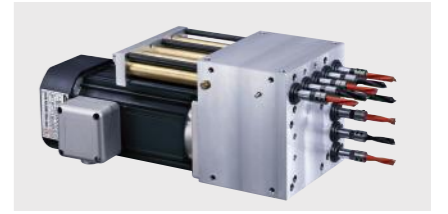
LH-510-2S+Cutter

CNC 5'x10' Machining Center



LH-510-2S

CNC 5'x10' Machining Center



9頭排鑽 9 boring heads in L shape

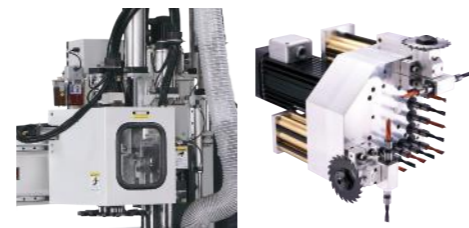


後排刀庫可放刀具 8 支
Tool holder for 8 cutter



LH-442 CNC

CNC 4'x4' Machining Center



9頭排鑽 + 2頭側鑽 + 2鋸片
9 Boring heads in L shape
+2 Horizontal side boring +
sawing



LH-510-2TS

CNC 5'x10' Machining Center



傘型刀庫(工作到哪可馬上換刀，讓效率更高)
Drum type ATC (When the machine
work in any position can change the tool
immediately, higher efficiency)

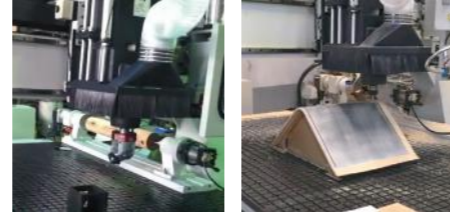


LH-5101-B

3 Axis all in ballscrews

CNC 5'x10'

Machining Center



主軸旋轉C軸(義大利製)
Spindle rotation axis



車床旋轉軸
Rotation lathe axis



LH-6204

CNC 6'x20'

Machining Center



LH-5102-S

CNC 5'x10' Two Spindles

Machining Center



Table Size : 1550 * 3075 mm	Max. Working Size : 1600 * 3100 mm
Stroke X-Axis : 3100 mm ; Servo : 1.5 Kw * 2 + Planetary Reducers	Stroke Y Axis : 1600 mm Servo : 1.5 Kw * 2 + Planetary Reducers
Stroke Z Axis : 250 mm ; Servo : 1 Kw	Max. Working Height : 250 mm
Rapid X & Y Axis : 55 M/Min	Rapid Z Axis : 20 M/Min
Spindle Speed : 1000 ~ 24,000 RPM	Tool Auto Change Mode & Capacity : 8-position drum type ATC
Tool Holder Taper : Iso-30 Shaft 4 PCS * 2	Collet Size : Er-32 : 4 PCS * 2
Spindle Power & Q'ty : Italy 12 Hp (HSD 9 Kw) * 2	Vacuum zone : All zone
	Controller : SYNTECH control system
Measure router bit of tool : 1PC ; ELECTRICITY HANDLE-EEL : 1PC	Delcam : 2.5D ART / CAM / CAD
Standard Equipment	
Router bits : ER-32, ISO-30 : 4pcs * 2	Collet for router bits : ER-32 Ø 4m/m : 1pc, Ø 6m/m : 2pcs ; 8mm : 2pcs ; 10mm : 1pc ; 12mm : 1pc ; 20mm : 1pc
And so does not include the cost of an overseas test	

LH-5123

CNC 5'x12'

Machining Center



傘型刀庫
(工作到哪可馬上換刀，讓效率更高)
Drum type ATC
(When the machine work in
any position can change the tool
immediately, higher efficiency)

3主軸個別加工或同時加工，
3主軸個別換刀功能

STANDARD EQUIPMENT

標準配備



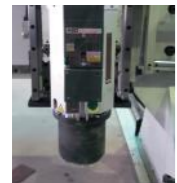
- 1. ISO30/ER32 刀桿x4
ISO30/ER32 tool holder x4
- 2. 彈性筒夾x4
Collet x4

- 3. 2.5D CAD/CAM

- 4. 自動量刀器
Auto tool touch measurement

- 5. 真空 PUMP 7.5HP
(含動力線 6 M)
Vacuum pump 7.5HP
(include wire for 6M)

- 8. 傘型刀庫
(工作到哪可馬上換刀，讓效率更高)
Drum type ATC
(8 positions)



- 9. 義大利製主軸 ISO 30 HSD
Italy made spindle ISO 30 HSD



- 10. 全行程自動注油器
Full working area lube system

- 1. ISO30/ER32刀桿 x 4
- 2. 彈性筒夾 x 4
- 3. 2.5D cad/cam
- 4. 自動量刀器
- 5. 真空PUMP 7.5HP (含動力線6 M)
- 6. 真空PUMP真空管 6M
- 7. 電源線 6M ; 8mm²
- 8. 傘型刀庫(工作到哪可馬上換刀，讓效率更高)
- 9. 義大利製主軸 ISO 30 HSD 9kw
- 10. 全行程自動注油器
- 1. ISO30/ER32 tool holder x 4
- 2. Collet x 4
- 3. 2.5D Art Cam/ CAD
- 4. Auto tool touch measurement (include wire for 6M)
- 5. Vacuum pump 7.5HP (include wire for 6M)
- 6. Dust duct length 6M
- 7. 8mm² power cable length 6M
- 8. Drum type ATC (8 positions)
The cutter can change automatically when machine work in any position to increase efficiency.
- 9. Italy made spindle ISO 30 HSD 9kw
- 10. Full working area lubrication system

OPTIONAL EQUIPMENT

選購配備



1. 車床旋轉軸



2. 主軸旋轉C軸(義大利製)



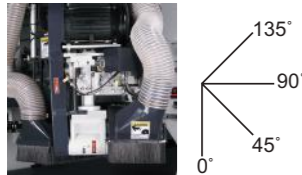
3. CCD影像辨識系統



4-a. 特殊頭: 9頭排鑽



4-b. 特殊頭: 9頭排鑽+2頭側鑽+2鋸片



4-c. 特殊頭: 側銑鉋刀



5-1 特殊頭



5-2 特殊頭



5-3 特殊頭



5-4 特殊頭



5-5 特殊頭

6. 雙區工作台面與安全光閘

- 1. 車床旋轉軸
- 2. 主軸旋轉C軸
- 3. CCD影像辨識系統
- 4. 特殊頭
 - Ⓐ 9頭排鑽
 - Ⓑ 9頭排鑽+2頭水平側鑽+水平鉋刀+鋸片功能
 - Ⓒ 水平鉋刀 (可挾持鋸片直徑350 mm及旋轉立軸0°、45°、90°、135°)
- 5. 可客製化特殊頭①②③④⑤
- 6. 雙區工作台面與安全光閘
客製工作台面
5' x 10'(1550 mm x 3075 mm) 、
5' x 12'(1550 mm x 3685 mm) 、
8' x 10'(2465 mm x 3075 mm) 、
8' x 12'(2465 mm x 3075 mm) 、
5' x 20'(1550 mm x 6200 mm)
- 客製機型
利偉公司所有的機種皆為自行研發設計製造，可依客戶特殊需求與以客製化。
- 1. Rotation lathe axis
- 2. Spindle rotation axis
- 3. CCD Image recognition system
- 4. CNC cutter heads series / CNC boring heads
 - Ⓐ 9 boring heads in L shape
 - Ⓑ 9 Boring heads in L shape +2 Horizontal side boring + sawing
 - Ⓒ Horizontal side milling head and can rotate to 0°, 45°, 90°, 135° Be able to work at diameter 350mm saw blade
- 5. Customized cutter head①②③④⑤
- 6. Customized Countertops
5' x 10'(1550 mm x 3075 mm) 、
5' x 12'(1550 mm x 3685 mm) 、
8' x 10'(2465 mm x 3075 mm) 、
8' x 12'(2465 mm x 3075 mm) 、
5' x 20'(1550 mm x 6200 mm)
- Customized machine available.
All the machine are design and manufacture by Lih Woei Co. therefore, we can produce machine base on different demand of customers.

伺服馬達及傳動系統

- 高響應、高解析度伺服馬達，搭配20 bit (1280000 p/rev)增量型編碼器。
- 採用重負荷、預壓式的歐規線軌，以及可以加工狀況微調導程珠子的滾珠螺桿，其珠子為精密研磨等級。
- 傳動齒排採用利偉標準研磨級規格斜齒排，具有精密及高剛性等特性。



(伺服馬達)



(傳動系統)

Servo motor and transmission

- Servo motor with highly response and resolution characteristic, Inner encoder resolution is 20 bit/1280000 P/ rev.
- Heavy duty type linear guide way and grinding bead quality.
- Lih Woei have our own helical gear rack specification, which is thick and durable with heat treatment and grind helical rack.

高效率換刀系統

- 執行換刀時，搭配高剛性台身使動作高速且連續順暢，換刀時間僅需4秒，最多可挾持8支刀。
- 後方排式換刀，可挾持成型刀的最大外徑為110mm，可挾持立軸刀的厚度為100 mm。關機前的刀號可在PLC暫存，縮小人為換刀所造成的撞機誤差。

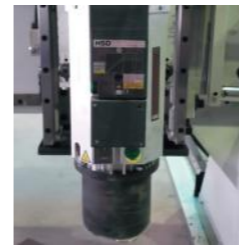


High efficiency ATC

- With heavy duty machine base, Lih Woei 's CNC can move efficiently and smoothly. The machine only takes 4 seconds to change tool, and our tool magazine is able to hold up to 8 tools.
- Linear type tool magazine is able to hold profile cutter (up to dia.110mm) and rebating cutter (up to dia.100mm) . Before turn off the machine, the cutter data will save in PLC.

義大利進口主軸

- 義大利製高頻主軸，其軸承材質為高剛型陶瓷，具有靜音、高轉速、高中心平衡等特性。主軸可承受較大的軸向切削力及挾持立軸成型刀，達到最大加工效率。
- 主軸轉速為1000~24000 r.p.m.、9 kw、12 HP，可滿足一般廣泛的需求。



Italy Spindle

- Italy Spindle which is quiet, high speed and more stable .The spindle can support heavy cutting to reach the biggest working efficiency.
- Spindle speed : 24,000 r.p.m. ; power : 12HP, 9kw .

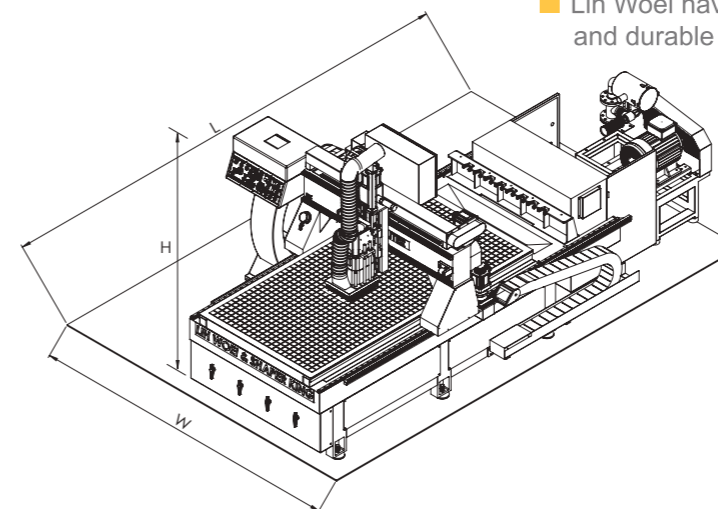
高剛性強化結構的底座

- 橫樑及底座的剛性均加以強化，提供機械本身最大切削穩定度。
- 高剛性的台身可縮小機台定位、加減速的時間，使高速定位更快速。
- 台身結構都經過熱處理，強化材質穩定度。

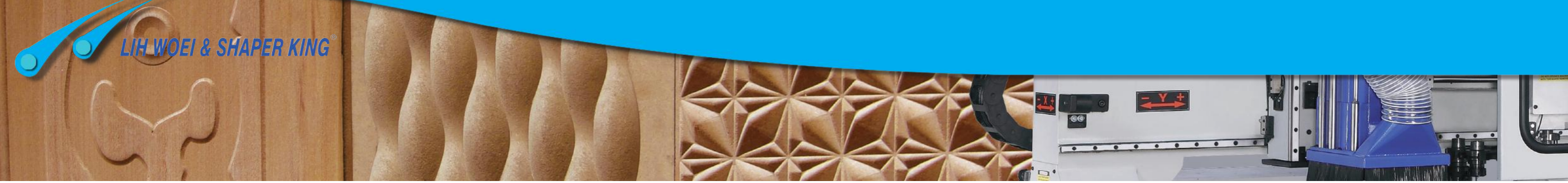


Heavy-duty base

- Heavy-duty machine base and crossbeam can make our machine more stable when processing.
- Lih Woei have our own helical gear rack specification, which is thick and durable with heat treatment and grind helical rack.



規格 ORDER NO.	長 (L)	寬 (W)	高 (H)
LH481-S	4470 mm	2750 mm	2092 mm
LH510-S	5075 mm	3050 mm	2092 mm
LH810	5075 mm	4470 mm	2092 mm
LH-812	5675 mm	4470 mm	2092 mm
LH-620	8550 mm	4470 mm	2092 mm
LH-840	13500 mm	5100 mm	2100 mm



規格	Specification	LH-481-S	LH-5101-S	LH-5102-S	LH-810	LH-5102
桌面尺寸	Table size	1250x2470mm	1550x3075mm	1550x3075mm	2465x3075mm	1550x3075mm
最大加工範圍	Max. working area	1250x2470mm	1600x3100mm	1600x3100mm	2465x3100mm	1600x3100mm
最大工作高度	Max. working height	250mm		400mm	250mm	250mm
X軸加工	Stroke X axis	2470mm	3100mm	3100mm	3100mm	3100mm
伺服馬達	Servos motor	1 kwx2pcs + Planetary Reducers 行星減速機			2 kwx2pcs + Planetary Reducers 行星減速機	
Z軸加工	Stroke Z axis	250mm; 伺服馬達 Servos motor : 1 kw		400mm; 伺服馬達 Servos motor : 1 kw	250mm; 伺服馬達 Servos motor : 1.5 kw	
X & Y軸速度	Rapid X & Y axis	55 M / min		55 M / min	55 M / min	55 M / min
Z軸速度	Rapid speed Z axis	20 M / min		20 M / min	20 M / min	20 M / min
主軸速度	Spindle speed	1000 ~ 24000 r.p.m.				
主軸馬力 & 數量	Spindle power & Q'ty	HSD 9 kw (12HP)x1				
真空泵浦	Vacuum pump power	7.5 HP				
工具型號	Tool holder taper	ISO #30: 4pcs		ISO #30: 4pcs	ISO #30: 4pcs	ISO #30: 4pcs
鉋花刀彈性筒夾尺寸	Collet for router bits	ER-32: Ø6mm ~ Ø20mm: 4 pcs		ER-32: Ø12mm: 2 pcs; Ø16mm: 2 pcs		ER-32: Ø6mm ~ Ø20mm: 4 pcs
真空區域	Vacuum zone	4 zone 區		6 zone 區		6 zone 區
工具轉換 & 能力	Tool auto change mode & capacity	8-position linear ATC 直線形後刀庫8支自動換刀		8種, 塑鋼材質, 後刀庫	8-position drum type ATC 傘型刀庫8支自動換刀	
9孔鑽頭以L型氣壓自動升降鑽孔	9 Boring head in L shape of motor power	-	-	2HP	-	2HP
控制器	Controller	Intek or LNC or fanuc or SYNTECH control system 智研或寶元或發那科或新代控制器				
量刀器	Measure router bit of tool	1 pc		1 pc	1 pc	1 pc
工具、手冊	Tool kits, Operation manual	1 set		1 set	1 set	1 set
CAD-CAM軟體	2.5D / 3D cam	Natural cam / Vectric / ZW3D / NX (Optional 選配)				

規格	Specification	LH-5102-2TS	LH-422	LH-5123	LH-6204	
桌面尺寸	Table size	1550x3075mm	1245x1245mm	1550x3685mm	1855x6200mm	
最大加工範圍	Max. working area	1600x3100mm	1250x1250mm	1600x3700mm	1860x6200mm	
最大工作高度	Max. working height		250mm	250mm	350mm	
X軸加工	Stroke X axis	3100mm	1250mm	3700mm	6200mm	
X軸伺服馬達	Servos motor	1 kwx2pcs + Planetary Reducers 行星減速機	1.5 kwx2pcs + Planetary Reducers 行星減速機		2 kwx2pcs + Planetary Reducers 行星減速機	
Z軸加工	Stroke Z axis	250mm; 伺服馬達 Servos motor : 1 kw	250mm; 伺服馬達 Servos motor : 1.5 kw	250mm; 伺服馬達 Servos motor : 1.5 kw	400mm; 伺服馬達 Servos motor : 2 kw	
X & Y軸速度	Rapid X & Y axis	55 M / min		55 M / min	60 M / min	
Z軸速度	Rapid speed Z axis	20 M / min		20 M / min	20 M / min	
主軸速度	Spindle speed	1000 ~ 24000 r.p.m.				
主軸馬力 & 數量	Spindle power & Q'ty	HSD 9 kw (12HP)x1				
真空泵浦	Vacuum pump power	7.5 HP				
工具型號	Tool holder taper	ISO #30: 4pcs	ISO #30: 4pcs	ISO #30: 4pcsx4		
鉋花刀彈性筒夾尺寸	Collet for router bits	ER-32: Ø6mm: 1 pcs; Ø12mm: 1 pcs; Ø16mm: 1 pcs; Ø20mm: 1 pcs	ER-32: Ø6mm ~ Ø20mm: 4 pcs	ER-32: Ø6mm ~ Ø20mm: 4 pcs	ER-32: Ø6mm: 1 pc; Ø12mm: 2 pcsx4組; Ø16mm: 2 pcsx4組	
真空區域	Vacuum zone	6 zone 區	2 zone 區	6 zone 區	12 zone 區	
工具轉換 & 能力	Tool auto change mode & capacity	8-position drum type ATCx2 傘型刀庫8支, 可自動換刀2組	10-position drum type ATC傘型刀庫 10支自動換刀	8-position drum type ATC傘型刀庫 8支自動換刀	8-position drum type ATCx4 傘型刀庫8支, 可自動換刀2組	
9孔鑽頭以L型氣壓自動升降鑽孔	9 Boring head in L shape of motor power	-	2HP	-	-	
控制器	Controller	Intek or LNC or fanuc or SYNTECH control system 智研或寶元或發那科或新代控制器				
量刀器	Measure router bit of tool	1 pc		1 pc	1 pc	
工具、手冊	Tool kits, Operation manual	1 set		1 set	1 set	
CAD-CAM軟體	2.5D / 3D cam	Natural cam / Vectric / ZW3D / NX (Optional 選配)				