



SINCE 1978
APEX CONNECTOR

APEX PRECISION TECHNOLOGY GROUP.

100% Made in Taiwan



GR-361



GR-334



GR-335



GR-336



鋁鋼精密科技集團



GreatKingdom

OEM/ODM



APEX Enterprise and Nature Coexistence

Coexistence of human and nature is the highest enterprise principle to APEX. All APEX's staff and operation must be based on the premise of preserving natural environment and protecting the earth.

- Manufacturing the low-pollution products
- Manufacturing without polluting the environment
- Recycle and reuse
- Contribution to protecting the earth
- Development of environmental protection

1. The product information in this catalog is for reference only.

Please request the engineering drawing for the most current and accurate design information.

2. In order to make improvements in the products, we reserve the right to make changes, updates and corrections to the information provided in this catalog at any time.

Subject to change without notice. Thank you for your understanding.

ISO / TS 16949 CERTIFIED IN GLOBAL AUTOMOBILE INDUSTRY

ISO 9001~14001 INTERNATIONAL Q/C CERTIFIED INDUSTRY CATEGORY SUPPLIER OF M.N.D



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



PHL-42AL



PHL-42A-FIFN



GK-30N



GK-30



GKP-42



GKS-25



GKS-32B

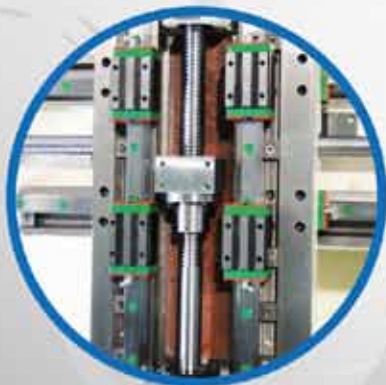


GKA-252

PHL-42AL

100% Made in Taiwan

CNC Turning & Milling Compound Lathe
複合式CNC自動車床



本公司保留機械及規格變更之權利，恕不另行通知。Design and specification are subject to change without prior notice.
機器在一公尺範圍內之噪音值平均為80分貝。The Sound pressure level is 80 dB(A) at the position of one meter Outside the machine.

本 CNC 控制系統，可選擇新代、三菱、發那科等系統。CNC monitoring system is optional (SYNTEC, MITSUBISHI, FANUC, etc.).

PHL-42A-FIFN

100% Made in Taiwan

CNC Turning & Milling Compound Lathe
複合式CNC自動車床



機械規格 MACHINE SPECIFICATION

單位 / Unit : mm

機型 MODEL		PHL-42AL	PHL-42A-FIFN
最大加工直徑	Max. turning O.D	200	200
最大加工長度	Max. turning length	160	160
滑座上旋徑	Swing over cross slide	180	130
X 軸行程	X-axis travel	120	200
Z 軸行程	Z-axis travel	220	220
主軸孔徑	Spindle bore	55	55
材料最大直徑	Max.bar capacity	45	45
主軸鼻端規格	Spindle nose	A2-5	A2-5
主軸夾頭規格	Spindle chuck	6"	6"
主軸馬達	Main motor	3 Kw (Servo)	4.5 Kw (Servo)
主軸轉速	Spindle speed	5000 rpm	4000 rpm
冷卻幫浦馬達	Cooling pump	1/4 hp	1/2 hp
最小輸入單位	Min input unit	0.001	0.001
車刀規格	Tool capacity	□ 16	□ 20
最大搪刀直徑	Boring tool capacity	Ø 25	Ø 20
X, Z 軸最快移動速度	X, Z axis rapid speed	16 m/min	16 m/min
機械尺寸(長x寬x高)	Machine size(LxWxH)	1900x1100x1700	1900x1320x1800
機械淨重	Machine net Weight	1100 kg	1100 kg

一部絕對超值、穩定、高效益經濟型數控車床，可選擇單件加工或搭配送料機進行無間斷自動加工。

*An economic value model. Stable, high performance and high profit.
Single piece process or to process automatically with bar feeder.*



機型 Model	棒材容納直徑 Max. bar feeding dia	主軸貫穿孔徑 Bore of spindle	主軸鼻端 Spindle nose
GK-30N	Ø30	Ø33	A2-4

選購附件 *OPTIONAL ACCESSORIES*



八位伺服刀塔
8-position servo turret



5" 三爪夾頭
5" 3-jaw hydraulic chuck



成品取料裝置
Parts catcher device



電動螺旋排屑機
Electrical screw type chip conveyor

*** 櫛式刀具配件** *STANDARD ACCESSORIES FOR GANG TYPE*



內孔刀架 (內徑Ø20)
Tool holder for inner hole (I.D Ø20)



內孔套筒 (外徑Ø20)
(I.D Ø6,8,10,12,16 / O.D Ø20)
Tool holder bush



上刀架口20
Upper tool holder □20



下刀架口20
Lower tool holder □20

*** 刀塔配件** *STANDARD ACCESSORIES FOR TURRET TYPE*



內孔刀座 (內徑Ø20)
Tool base for inner hole (I.D Ø20)



內孔刀架 (內徑Ø20)
Tool holder for inner hole (I.D Ø20)



車刀墊片 (上、下) □16
Tool spacer (up/down) □16



內孔套筒 (外徑Ø20)
(I.D Ø6,8,10,12,16 / O.D Ø20)
Tool holder bush



機身一體鑄造成型，高剛性
最大X/Z軸行程：X 300mm/Z 200mm
超寬X/Z軸跨距，最穩定
價格經濟，性價比超高

*One piece casting machine body, high rigidity
Max X/Z axis travel for X 300mm/Z 200mm
Widest X/Z axis distance, the most stable
The economical price with high Capacity/Price*

GK-30/GKP-42 Multitasking CNC Lathe

車銑複合數控車床

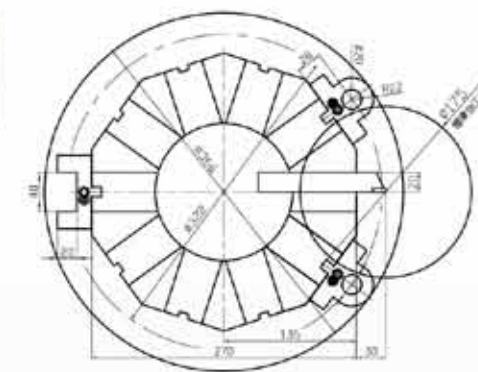
100% Made in Taiwan

多種車銑複合組合，搭配側面、端面動力刀具裝置可進行內、外徑車削銑製加工，提高生產力、高效能。

Numerous multitasking combinations. With side/end face live tools devices, allowed to do the I.D and O.D turning/milling to enhance the productivity.



機型 Model	棒材容納直徑 Max. bar feeding dia	主軸貫穿孔徑 Bore of spindle	主軸鼻端 Spindle nose
GK-30	Ø30	Ø33	直結式 direct-connection
GKP-42	Ø42	Ø45	A2-5



刀塔刀具干涉圖 Turret tool Interference Diagram

*** 依不同需求，選擇搭配 VARIOUS OPTIONS THAT MEET YOUR REQUIREMENTS!**

* 上段選配 (UP)



八位置油壓刀塔
8-position hydraulic turret



Y軸側銑裝置 (ER16)
Y-axis side live tooling device



上方單軸側銑裝置 (ER25)
Single shaft side live tooling device-Top

* 中段選配 (MIDDLE)



角度型端銑裝置 (ER16)
Angle-adjustable end milling device(45°)



端銑裝置 (ER16)
End side live tooling device



單軸立式銑刀裝置 (ER20)
Single shaft vertical type live tooling device

* 下段選配 (DOWN)



八位伺服刀塔
8-position servo turret



下方單軸側銑裝置 (ER20)
Single shaft side live tooling device-Below

GKS-25/32 Swiss Type CNC Lathe

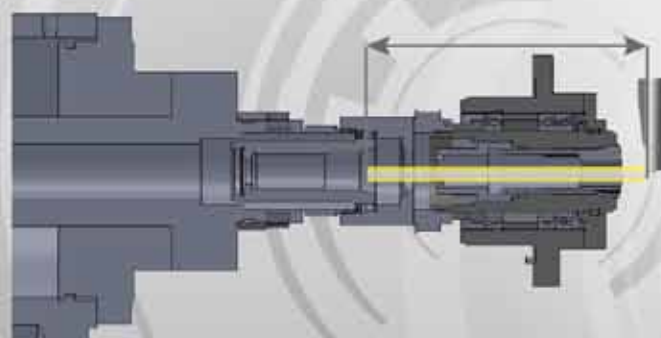
走心式/走刀式數控車床

高剛性結構車體，可作走心/走刀兩用車床，具有車、銑、攻牙及輪廓等多樣化加工功能，適用於長工件加工，縮短加工製程提高生產力。

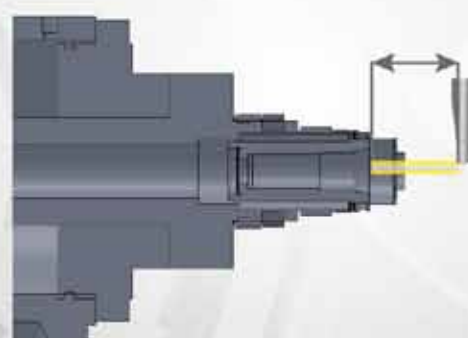
High rigidity body, Sliding head CNC lathe with turning, milling, drilling, tapping and contouring functions. Suitable for processing long piece to enhance the productivity.



機型 Model	棒材容納直徑 Max. bar feeding dia	主軸貫穿孔徑 Bore of spindle	主軸型式 Spindle type
GKS-25	Ø25	Ø28	built-in
GKS-32	Ø32	Ø33	built-in

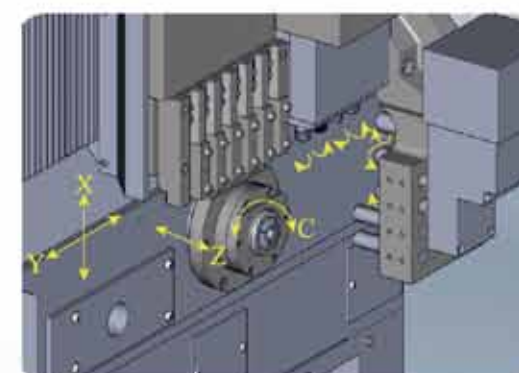


走心式行程180mm，最少殘料150mm
With guide bush type travel: 180mm, Min. Offal: 150mm.



走刀式行程310mm，最少殘料50mm
Without guide bush type travel: 310mm, Min. Offal: 50mm.

根據不同加工需求，可選擇更換走心式/走刀式組合結構。
The synchronize guide bush can be installed/released according to various processing needs.



* 刀具排列
* Tools Arrangement

內藏式主軸最高轉速6000rpm，具有C軸功能
Built-in spindle includes C-axis function, max. 6000rpm

油壓迴轉缸提供快速、穩定的夾持力
Hydraulic cylinder provides high speed and stable clamping

高剛性線軌，提供更穩定、快速精確的加工給進
High rigidity linear guide ways provide stable, rapid and precise feeds

一體成形底座，高剛性更穩定性
Machine body made from one piece solid cast iron, high rigidity and stability



標準配件-同步迴轉導套達成異形加工的需求。
Standard accessory: Synchronize rotary guide bush device, can process work pieces with various shapes.



內藏式主軸具備高轉速、大功率、高精度以及低振動等特性，使加工表面更為細緻平滑。
Built-in spindle: high rotating speed, higher power, high accuracy and less vibration. Produce finest finished.

X1/Y1/Z1 軸向伺服馬達，快速進給達25m/min
X1/Y1/Z1 axis servo motor, max. rapid feed rate 25m/min

□16外徑刀具座
□16 External tool holder

端面動力刀具裝置(ER20)最高轉數5000rpm
Axial live tooling, max. 5000rpm

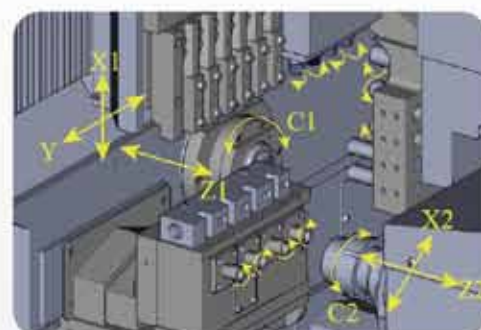
GKS-25B/32B Dual-Spindle CNC Lathe

雙主軸數控車床

100% Made in Taiwan

雙主軸車床，正面背面同時加工，提高作業效率，亦可選配同步迴轉導套加工長軸型工件，可彈性靈活運用。

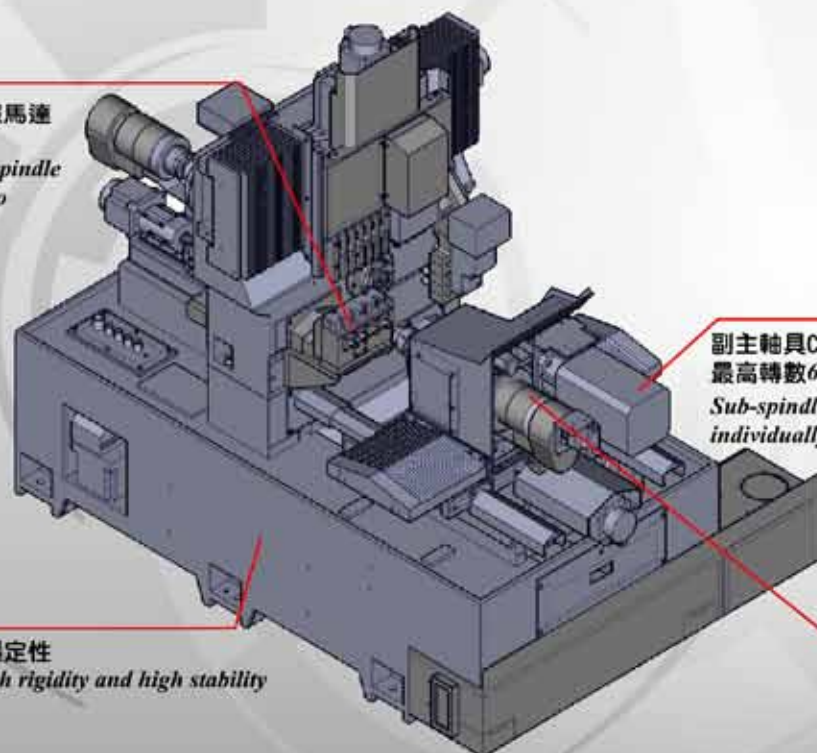
Dual-spindle. Can process both sides of the workpiece synchronously to enhance the productivity. Synchronize guide bush can be optional for processing long shaft pieces to reach various needs.



* 刀具排列
* Tools Arrangement

機型 Model	棒材容納直徑 Max. bar feeding dia	主軸貫穿孔徑 Bore of spindle	主軸形式 Spindle type
GKS-25B	Ø25	Ø28	built-in
GKS-32B	Ø32	Ø33	built-in

副主軸動力刀具裝置由伺服馬達驅動可做背面銑削
Live tools device of the sub-spindle is driven by servo motor to do back-side processing



副主軸具C軸功能可獨立加工，由伺服馬達驅動，最高轉數6000rpm
Sub-spindle with C-axis function, allows to process individually. Driven by servo motor, 6000rpm max

一體成形底座，高剛性高穩定性
One piece machine base, high rigidity and high stability

副主軸具吹氣及推料裝置
Air blower and parts ejector are installed with sub-spindle

選購配件 OPTIONAL ACCESSORIES



副主軸端面4軸動力刀具裝置
End side 4-shaft live tooling device for sub-spindle



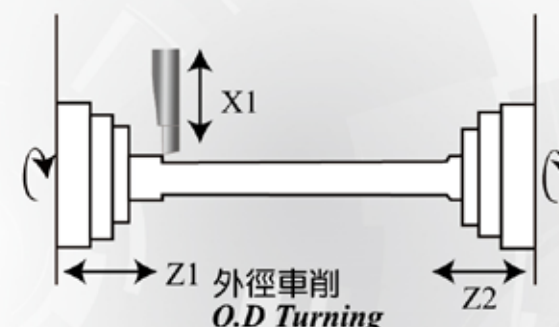
正主軸端面3軸動力刀具裝置
End side 3-shaft live tooling device for main spindle



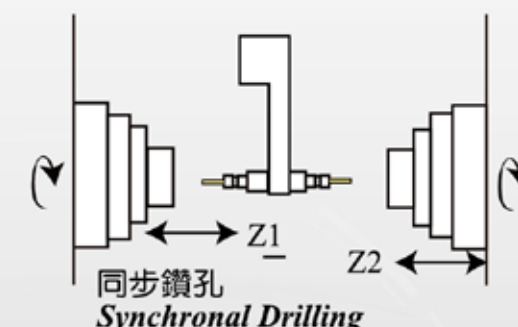
同步迴轉導套
Synchronous rotary guide bushing device



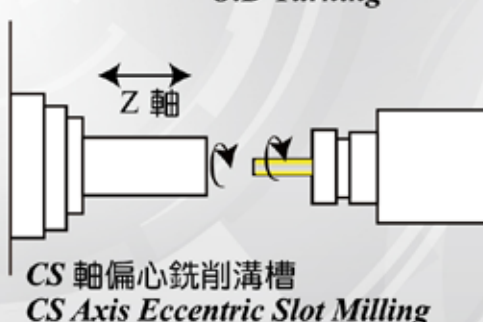
電動鏈板式鐵屑排出機
Electrical steel belt type chip conveyor



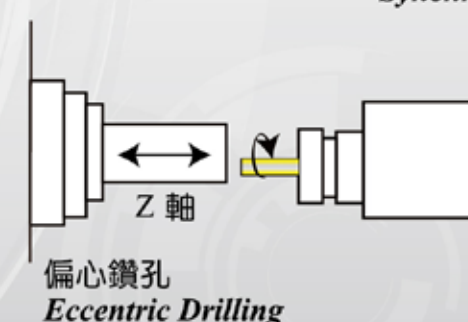
外徑車削
O.D Turning



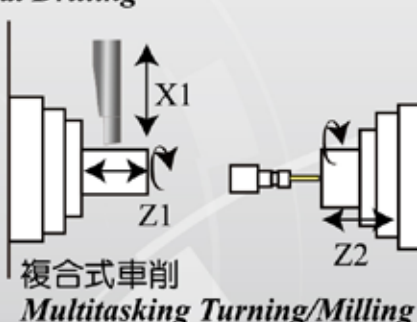
同步鑽孔
Synchronal Drilling



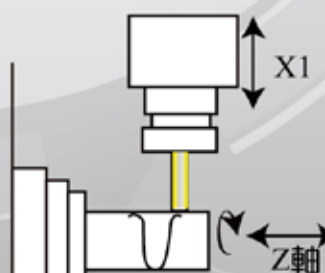
CS 軸偏心銑削溝槽
CS Axis Eccentric Slot Milling



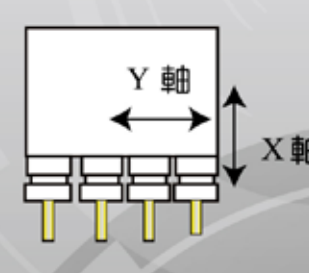
偏心鑽孔
Eccentric Drilling



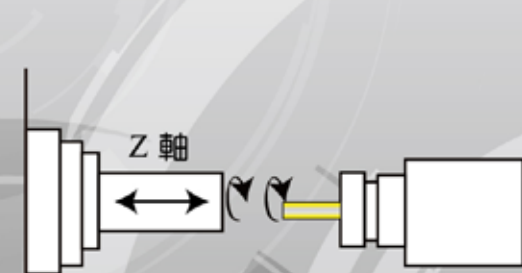
複合式車削
Multitasking Turning/Milling



CS 軸車銑削
CS Axis Turning/Milling



側面鑽孔/銑削
Cross side Drilling/Milling



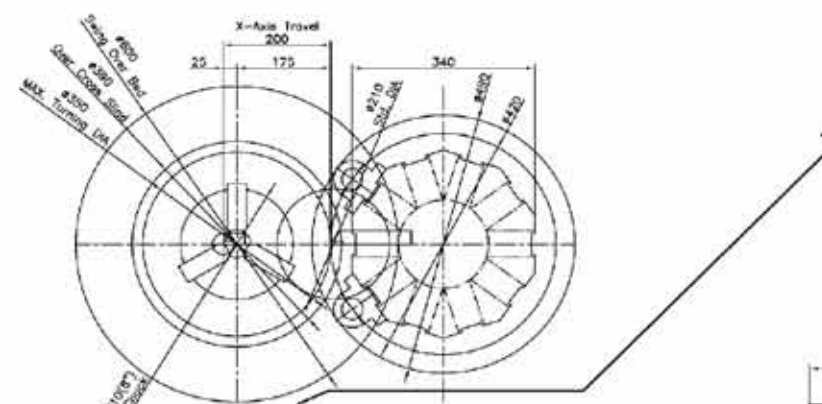
多邊形銑削
Polygon Milling

45度斜背式車床結構，X/Z軸方形硬軌設計，搭配十位置高剛性油壓刀塔或選配伺服動力刀塔、低震動低噪音，穩定更耐用。

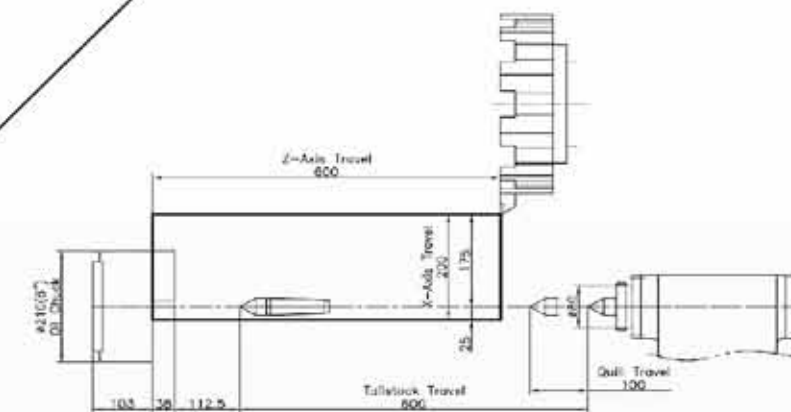
45° Slant angle of bed, box way designed of X/Z axis with 10-position hydraulic turret or 12-position servo power turret. Less vibration and noise, stable and longer machine life.



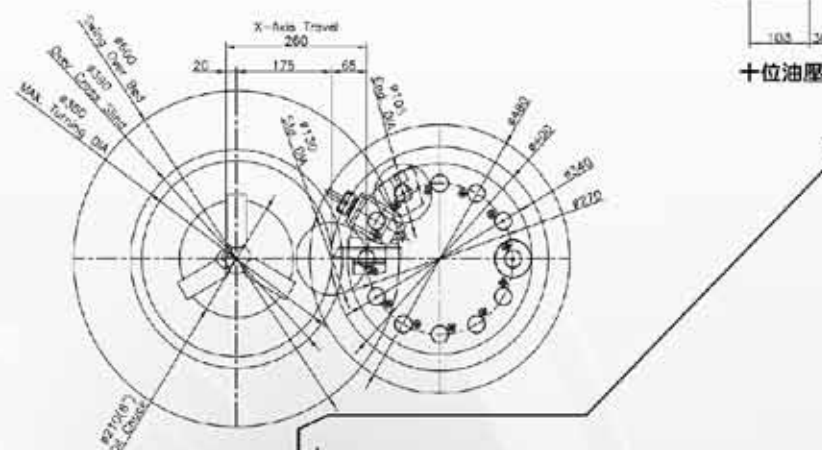
可選配12位置伺服動力刀塔
Opt. 12-position servo power turret.



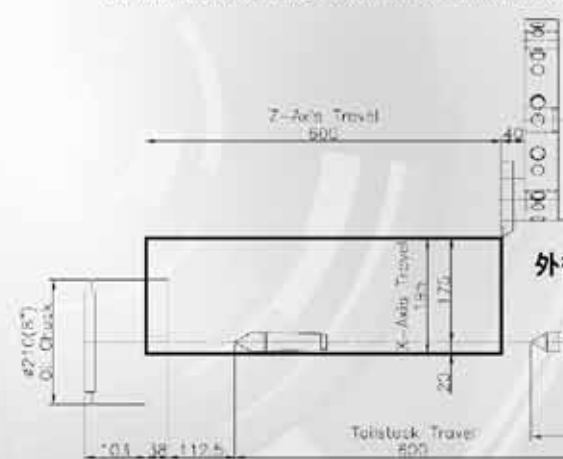
十位油壓刀塔-刀具干涉圖
Tool Interference Diagram (X axis)
10 position hydraulic turret



十位油壓刀塔-刀具干涉圖
Tool Interference Diagram (Z axis)
10 position hydraulic turret

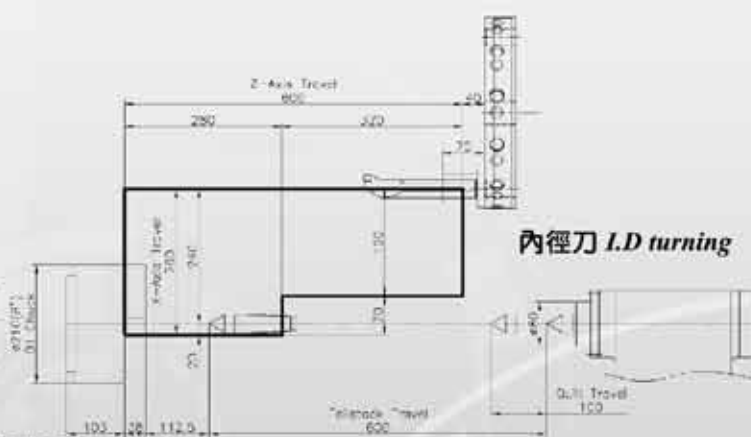


十二位動力伺服刀塔-刀具干涉圖
Tool Interference Diagram (X axis) 12-position servo power turret



外徑刀 O.D turning

十二位動力伺服刀塔-刀具干涉圖
Tool Interference Diagram 12-position servo power turret



內徑刀 I.D turning

PS. 標準配備 A2-6 8" 三爪夾頭，也可選擇搭配60#筒夾套 (185E筒夾) 或10"三爪夾頭。
Standard accessory: 8" 3-Jaw hydraulic chuck.
Optional accessory: 60#collet chuck (185E collet) or 10" 3-Jaw hydraulic chuck.

	刀塔形式 Turret type	可容納棒材外徑 Bar capacity	最大加工長度 Max. turning length	三爪油壓夾頭 3-jaw hydraulic chuck	筒夾套 Collet chuck
GKA-252		Ø52		A2-6 8"	-
Opt.-1	油壓刀塔 / 動力刀塔 Hydraulic / Servo power	Ø60	600mm opt. (900mm / 1200mm)	-	60#
Opt.-2		Ø63		A2-6 8"	-
Opt.-3		Ø75		A2-8 10"	-



手動刀具量測器
Manual tool measurement



C軸功能-碟刹裝置
C-axis function (Disc brake device)



A2-8 10" 三爪油壓夾頭
A2-8 10" 3-jaw hydraulic chuck



VDI-30伺服動力刀塔
VDI-30 servo power turret

GR-361

100% Made in Taiwan

Adjustable Electronic Press 沖壓行程可調式沖床



- 專利行程可調結構
- 模頭套筒可依尺寸更換
- 寬廣的調整範圍
- 傳動使用電磁離合器靜音高扭力
- 外掛式安全電眼
- 多功能安全電路設計
- 安全啟動裝置
- Patented adjustable travel.
- The sizes of chuck arbor and sleeve can be changed.
- Wide adjustable range.
- Driven by electromagnetic clutch with silent and high torque.
- Plug-in electric eye safety.
- Multi-function safety circuit design.
- Safety trigger device.



專利行程可調結構
Patented adjustable stroke structure



安全啟動裝置
Safety trigger device



外掛式安全電眼
Plug-in electric eye safety



模頭套筒可依尺寸更換
The sizes of chuck arbor and sleeve can be changed



寬廣的調整範圍
Wide range of adjustment



傳動使用電磁離合器
Transmission using electromagnetic clutch

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100% Made in Taiwan

Hyper precision Arbor Press 超精密手動壓床



專利防呆裝置
Patented foolproof device



精密主軸結構
Precise principal axis design



專業型計數器
Equipped with a counter device



主軸微調距離
Precise fine tuning and securing arrangement

- FCD40球墨鑄鐵結構
- 專利防呆裝置
- 精密微調和鎖固裝置
- 精密主軸設計
- 主軸和工作台定位孔“快速同心對位”設計
- 彈性化模頭固定裝置
- 精巧機座升降調整裝置
- 穩固的底座
- 符合人體工學握把
- “計數器”標準配備
- FCD40 ductile cast-iron structure.
- Patented foolproof device.
- Precise fine tuning and securing arrangement.
- Precise principal axis design.
- The aligning holes for the principal axis and working table can be connected quickly.
- Flexible chuck arbor fixed device.
- Elaborate height adjustment for rising and lowering.
- Strongly built base.
- Ergonomic handle design.
- Equipped with a counter device.

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100% Made in Taiwan

Hyper precision Arbor Press 超精密手動壓床



專利防呆裝置
Patented foolproof device



精密主軸結構
Precise principal axis design



主軸微調距離
Precise fine tuning and securing arrangement

- FCD40球墨鑄鐵結構
- 專利防呆裝置
- 精密微調和鎖固裝置
- 精密主軸設計
- 主軸和工作台定位孔“快速同心對位”設計
- 彈性化模頭固定裝置
- 精巧機座升降調整裝置
- 穩固的底座
- 符合人體工學握把
- “計數器”標準配備
- FCD40 ductile cast-iron structure.
- Patented foolproof device.
- Precise fine tuning and securing arrangement.
- Precise principal axis design.
- The aligning holes for the principal axis and working table can be connected quickly.
- Flexible chuck arbor fixed device.
- Elaborate height adjustment for rising and lowering.
- Strongly built base.
- Ergonomic handle design.
- Equipped with a counter device.

專利發明，未達下死點前，下壓手把無法回到起始位置，確保工件深度及組立，保證工件品質。其目的在減少工件因不當的載重，不良件所造成工時上的浪費及避免傷害。

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100% Made in Taiwan

Precision Arbor Press 精密手動壓床



精密主軸結構
Precise principal axis structure



主軸壓床位置
Arbor press position

- FCD40球墨鑄鐵結構
- 精確的深度控制
- 彈簧式返回運動
- 工作高度可調
- 拆組簡單
- 保養簡易
- 快速且簡單調整工作高度
- FCD40 ductile cast-iron structure.
- Precise depth control
- Spring-loaded return motion
- Adjustable operating altitude.
- Easy to disassemble and assemble.
- Easy Maintenance
- Quick and easy to adjust operating altitude.

機械規格 MACHINE SPECIFICATION

機型 MODEL		GK-30	GKP-42
棒材容納直徑 (mm)	Max.bar feeding dia	Ø30	Ø42
主軸貫穿孔徑 (mm)	Bore of spindle	Ø33	Ø45
主軸鼻端	Spindle nose	直結式 Direct-connection	A2-5
筒夾	Collet	163E	173E (C44)
標準加工外徑 (mm)	Standard turning dia.	140	140
最大加工長度 (mm)	Max. turning length	150	150
主軸馬達 (kw)	Spindle motor	3.75 (opt 5.5)	3.75 (opt 5.5)
主軸迴轉速 (rpm)	Spindle rotating speed	50-6000	50-6000
X.Z軸伺服馬達 (kw)	servo motor (X-axis.Z-axis)	1	1
X軸移動量 (mm)	X-axis travel	350	350
Z軸移動量 (mm)	Z-axis travel	250	250
X軸快速移動 (m/min)	Rapid travel speed (X-axis)	20	20
Z軸快速移動 (m/min)	Rapid travel speed (Z-axis)	20	20
外徑刀尺寸 (mm)	O.D. tool size	□20	□20
內徑刀尺寸 (mm)	I.D. turning tool size	Ø20	Ø20
八位置油壓刀塔	8-position hydraulic turret	8位 8 position	8位 8 position
機器尺寸(長x寬x高) (mm)	Machine size (LxWxH)	1800x1450x1660	1780x1600x1800
機械淨重 (kgs)	Machine net weight	2100	2300

GK-30/GKP-42 選購附件 OPTIONAL ACCESSORIES

1. C軸功能 C-axis function	7. 棒材自動送料機 Automatic bar feeder	13. Y軸側銑 (四軸) Y-axis side live tooling device (4-shaft)	19. 成品自動取料裝置 Parts catcher
2. 拉料器 Auto link (bar puller)	8. 油霧回收機 Oil mist collector	14. 簡易式單支送料架 Simple type single bar feeding device	20. 成品自動取料裝置含輸送帶 Parts catcher and conveyor belt
3. 變壓器 Transformer	9. 空調冷卻機 Air condition	15. 電動鏈板式鐵屑排出機 Electrical steel belt type chip conveyor	21. 主軸A2-4 Spindle A2-4
4. 穩壓器 Voltage stabilizer	10. CE規格 CE specification	16. 上方單軸側銑 Single shaft side live tooling device-Top	22. 主軸A2-5 Spindle A2-5
5. 主軸馬達 7.5 HP Spindle motor 7.5 HP	11. 油水分離機 Oil skimmer	17. 下方單軸側銑 Single shaft side live tooling device-Below	23. 三軸端面鑽孔/攻牙裝置 End side live tooling device (3-shaft)
6. 主軸馬達 10 HP Spindle motor 10 HP	12. 強力冷卻幫浦 1HP 1HP powerful coolant pump	18. 立式銑刀裝置 Single shaft vertical type live tooling device	24. 角度型端銑裝置 (ER16) Angle-adjustable end milling device (45°)

機械規格 MACHINE SPECIFICATION

機型 MODEL		GK-30N
床面上旋徑 (mm)	Swing over cross bed	250
主軸馬達 (KW)	Spindle motor	3.75
主軸迴轉速 (rpm)	Spindle rotating speed	3200 (opt. 6000)
主軸貫穿孔徑 (mm)	Bore of spindle	Ø33
X.Z軸快速移動 (m/min)	Rapid travel speed (X-axis.Z-axis)	20
X.Z軸伺服馬達 (KW)	Servo motor (X-axis.Z-axis)	1
X軸螺桿外徑及導程 (mm)	X-axis Ballscrew	Ø25 pitch 10
Z軸螺桿外徑及導程 (mm)	Z-axis Ballscrew	Ø28 pitch 8
Z軸移動量 (mm)	Z-axis travel	200
X軸移動量 (mm)	X-axis travel	300
筒夾	Collet	C32
棒材容納直徑 (mm)	Max.bar feeding dia	Ø30
外徑刀尺寸 (mm)	O.D. tool size	□20
內徑刀尺寸 (mm)	I.D. turning tool size	Ø20
機器尺寸 (長x寬x高) (mm)	Machine size (LxWxH)	1510x1550x1600
機械淨重 (kgs)	Machine net weight	1750

GK-30N 選購附件 OPTIONAL ACCESSORIES

1. 5"三爪夾頭 5" 3-jaws hydraulic chuck	6. 成品自動取料裝置 Parts catcher
2. 油壓缸檢知含集水槽 Hydraulic cylinder detection device with coolant collector	7. 電動螺旋式鐵屑排出機 Electrical screw type chip conveyor
3. 強力冷卻幫浦 1HP 1HP powerful coolant pump	8. CE規格 CE specification
4. 棒材自動送料機 Automatic bar feeder	9. 變壓器 Transformer
5. 8位伺服刀塔 8-position servo turret	

機械規格 MACHINE SPECIFICATION

機型 MODEL		GKS-25	GKS-32	GKS-25B	GKS-32B
棒材容納直徑 (mm)	Max. bar feeding dia.	Ø25	Ø32	Ø25	Ø32
主軸貫穿孔徑 (mm)	Bore of spindle	Ø28	Ø33	Ø28	Ø33
筒夾	Collet	星辰Citizen 25#	164E	星辰Citizen 25#	164E
導套座	Guide bush holder	星辰Citizen 25#	星辰Citizen 32#	(opt.)	
最大加工外徑 (mm)	Max. turning dia.	25	32	25	32
主軸內藏式馬達 (kw)	Spindle with built-in motor	3.75 (opt 5.5)		3.75 (opt 5.5)	
主軸迴轉速 (rpm)	Spindle rotating speed	6000		6000	
X.Y.Z軸伺服馬達 (kw)	Servo motor (X-axis.Y-axis.Z-axis)	1		1	
X軸移動量 (上下) (mm)	X-axis travel (vertical)	150		150	
Y軸移動量 (mm)	Y-axis travel	420		420	
Z軸移動量 無導套 (mm)	Without guide bush	310		310	
Z軸移動量 有導套 (mm)	With guide bush	180		180	
X.Y.Z軸快速移動 (m/min)	Rapid travel speed (X-axis.Y-axis.Z-axis)	25		25	
外徑刀具數	No. of O.D. turning tools	6		6	
外徑刀尺寸 (mm)	O.D. turning tool size	□16		□16	
內徑刀具數	No. of I.D. turning tools	5		5	
內徑刀尺寸 (mm)	I.D. turning tool size	Ø20		Ø20	
側端銑伺服馬達 (kw)	Servo motor of cross/end side driving tool	2		2	
側端銑伺服馬達轉速 (rpm)	Rotating speed of cross/end side live tooling	5000		5000	
側端銑刀具規格	Size of cross/end side live tooling	ER-16/ER-20		ER-16/ER-20	
自動潤滑幫浦	Auto lubricator pump	3-6 cc/15 min		3-6 cc/15 min	
機器尺寸 (長x寬x高) mm	Machine size (LxWxH)	2100x1580x2000		2700x1580x2000	
機械淨重 (kgs)	Machine net weight	2400		3000	

副主軸 SUB SPINDLE

最大加工外徑 (mm)	Max. turning dia.	-	25	32
副主軸馬達 (kw)	Sub-spindle motor	-	2.2 (opt 3.75)	
副主軸最高轉速 (rpm)	Max. rotating speed of sub-spindle	-	6000	
X.Z軸伺服馬達 (kw)	Servo motor (X-axis.Z-axis)	-	1	
X軸移動量 (mm)	X-axis travel	-	305	
Z軸移動量 (mm)	Z-axis travel	-	240	
X.Z軸快速移動 (m/min)	X.Z-axis rapid travel speed	-	25	
外徑刀具數	No. of O.D. turning tools	-	1	
外徑刀尺寸 (mm)	O.D. turning tool size	-	□16	
內徑刀具數	No. of I.D. turning tools	-	4	
內徑刀尺寸 (mm)	I.D. turning tool size	-	Ø20	

項目 ITEM GKS-25B/32B 主軸動力刀具 SPINDLE LIVE TOOLING

1. 側銑刀具數量與尺寸 No. & Size of cross side live tooling	4 pcs ER16	4. 端銑刀具數量與尺寸 (選配) Size of end side live tooling (opt.)	3 pcs ER20
2. 側銑刀具伺服馬達 (kw) Servo motor of cross side live tooling	2	5. 端銑刀具伺服馬達 (KW) (選配) Servo motor of end side live tooling (opt.)	2
3. 側銑刀具最高轉速 (rpm) Max. rotating speed of cross side live tooling	5000	6. 端銑刀具最高轉速 (rpm) (選配) Max. rotating speed of end side live tooling (opt.)	5000

項目 ITEM GKS-25B/32B 副主軸動力刀具 (選配) SUB-SPINDLE LIVE TOOLING (OPTIONAL)

1. 端銑刀具數 No. of end side live tooling	4+(□16x1)	3. 端銑刀具尺寸 Size of end side live tooling	ER16
2. 端銑刀具伺服馬達 (kw) Servo motor of end side live tooling	2	4. 端銑刀具最高轉速 (rpm) Rotating speed of end side live tooling	5000

項目 ITEM GKS-25B/32B 選購附件 OPTIONAL ACCESSORIES

1. 穩壓器 Voltage stabilizer	6. 油霧回收機 Oil mist collector
2. 強力冷卻幫浦 1HP 1HP powerful coolant pump	7. CE規格 CE specification
3. 電動鏈板式鐵屑排出機 Electrical steel belt type chip conveyor	8. 副主軸端銑四軸動力裝置 (ER16) End side live tooling device for sub-spindle (4-shaft)
4. 同步迴轉導套 Synchronous rotary guide bushing device	9. 主軸端銑三軸動力裝置 (ER20) End side live tooling device for main spindle (3-shaft)
5. 副主軸碟煞裝置 Disc brake for Sub-spindle	

項目 ITEM GKS-25/32 選購附件 OPTIONAL ACCESSORIES

1. 穩壓器 Voltage stabilizer	6. 輔助尾座 Auxiliary tailstock
2. 電動鏈板式鐵屑排出機 Electrical steel belt type chip conveyor	7. 端面三軸動力裝置 (ER20) End side live tooling device (3-shaft)
3. 長工件取料盒 Long workpiece collecting box	8. 油霧回收機 Oil mist collector
4. 主軸導套 (走刀式固定座) Spindle guide bush (fixed guide bush holder)	9. CE規格 CE specification
5. 主軸內孔襯套組 (PE) Spindle inner-hole bush (PE material) (set)	

GKA-252 機械規格 MACHINE SPECIFICATION

刀塔型式 TURRET TYPE		油壓刀塔 HYDRAULIC		動力刀塔 SERVO POWER	
床面上旋徑	Swing over cross bed (mm)			600	
過滑座蓋直徑	Over cross slide (mm)			390	
最大加工外徑	Max turning dia (mm)			350	
最大加工長度	Max machining length (mm)			600 (option 900/1200)	
拉管通孔徑	Hole through draw bar (mm)			52	
夾頭尺寸	Chuck size (inch)			8"	
主軸馬達	Spindle motor (kw)			11/15	
主軸最大轉速	Max. Spindle speed (rpm)			4000	
主軸鼻端	Spindle nose (asa)			A2-6	
主軸通孔徑	Spindle bore (mm)			62	
主軸前軸承內徑	Front bearing inside dia (mm)			100	
Z軸行程	Z axis travel (mm)			600 (option 900/1200)	
X軸行程	X axis travel (mm)	200		260	
Z軸馬達	Z axis motor (kw)	1.8		2.5	
X軸馬達	X axis motor (kw)	1.8		2.5	
總電力需求	Electrical power supply (kva)	22		30	
Z軸快速進給	Z axis rapid feed (m/min)			20	
X軸快速進給	X axis rapid feed (m/min)			20	
軌道型式	Guid ways			硬軌 Box way	
刀塔型式	Turret type	油壓 Hydraulic		動力伺服 Servo power	
刀塔數量	Number of tools	10T		12T	
動力刀座轉速	Live tooling speed (rpm)	-		6000	
轉動刀軸馬達	Live tooling speed (kw)	-		2.2/3.7	
外徑刀尺寸	Size of O.D.turning tool (mm)	□25		VDI 30. □20	
內徑刀尺寸	Size of I.D turning tools (mm)	Ø40		VDI 30. Ø32	
尾座心軸直徑	Quill dia (mm)			80	
尾座心軸行程	Quill stroke (mm)			100	
尾座本體行程	Tailstock travel (mm)			600 (option 900/1200)	
心軸套筒直徑	Quill taper (mm)			MT#4	
佔地面積	Occupancy (LxWxH) (mm)	3700 (600L)/4000 (900L)/4300 (1200L)		X 1845 X 2075	
機械淨重	Machine net weight (kgs)			4200	

標準附件 STANDARD ACCESSORIES

項目 ITEM

A2-6 8" 三爪油壓夾盤含軟爪	一組	手動油壓尾座	一組
A2-6 8" 3-jaw hydraulic chuck including soft jaw	1 set	Hydraulic tailstock	1 set
腳踏開關	一組	自動潤滑系統	一組
Foot switch	1 set	Auto lubricant system	1 set
工具及工具箱	一組	工作燈	一組
Tools & tool box	1 set	Lighting device	1 set
機械墊塊	六個	強力冷卻幫浦1HP	一組
Base leveling block	6 pcs	1HP powerful coolant pump	1 set
切削液設備	一組	電動鏈板式鐵屑排出機	一組
Coolant device	1 set	Electrical steel belt type chip conveyor	1 set
GKA-252 十位置油壓刀塔 (LS-160A)	五組 5 sets	GKA-252 十二位置伺服動力刀塔 (VDI30-Coupling DIN 1809)	三個 3 pcs
內孔刀座 (I.D Ø40)	五組 5 sets	外徑刀座 □20	三個 3 pcs
車刀墊片 (上、下) □25	五組 5 sets	內孔刀座 (I.D Ø32)	三組 3 sets
Tool spacer(up,down)	5 sets	內孔套筒 (I.D Ø8,10,12,16,20,25,32) O.D Ø40	各一 1 pc / each
內孔套筒 (I.D Ø8,10,12,16,20,25,32) O.D Ø40	各一 1 pc / each	Tool holder bush for inner hole	各一 1 pc / each
Tool holder bush for inner hole	1 pc / each	保護套	七個 7 pcs
		Protective cap	7 pcs

選購附件 OPTIONAL ACCESSORIES

項目 ITEM

1. 手動刀具量測	6. PLC可程式控制尾座	11. 筒夾套 Ø60
Manual tool measurement	Programmable tailstock	Collet chuck Ø60
2. 油霧回收機	7. 油水分離機	12. 10" 三爪油壓夾頭
Oil-mist collector	Oil skimmer	10" 3-jaw hydraulic chuck (A2-8 spindle)
3. 棒材自動送料機	8. 變壓器	13. 12位伺服動力刀塔
Auto bar feeder	Transformer	12-position servo power turret
4. 空調冷卻機	9. 穩壓器	
Air condition	Voltage stabilizer	
5. 成品取料裝置及輸送帶	10. CE規格	
Parts catcher and conveyor	CE specification	

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