

FastCut[®]

雙系統切削攻法

Dual Action.
Double Efficiency.

Saves 40% Cycle Time.

0.002 mm



Concentricity

Automation

50%





FastCut®最初是由金屬切削油壓專用機創業而成，自創立以來FASTCUT始終持續不斷的研究開發，以及不斷提昇及突破開發新機型，自原始的切削油壓專用機至現有的CNC數控車床，並結合國內外之學術自行開發先進技術，以追求完美的性能與品質的新境界。並且不斷的導入最先進的各項國際品質認證，於2002年通過ISO9001之品質認證，2003年通過CE標誌，並取得EMC之認證，2004年通過2000版的ISO9001的認證。

"High technology gained high efficiency" is our maxim, We increase functionality superiority to customers. Fastcut is continuously devoting to develop new generation of Machine tools, and we have maintained good reputation for over 20 years. FASTCUT was ISO9001 certified in 2002, EMC and CE certified in 2003, and obtained ISO9001-2000 certification in 2004 and more.

▶ 多國專利 / Patent

榮獲多國專利，歐盟專利申請中。(E.P.O、PAT、PEND)

Unique design with worldwide patent achieved. CE patent in processing. (E.P.O、PAT、PEND)



CE
6042/02/0061



▶ 歷史沿革 / History of company

- 1987 ~ 1988** 設立於台中市，生產金屬切削專用機及專用機。
Founded in Taichung city, manufactured Metal cutting machine and Special purpose machine.
- 1989 ~ 1991** 開發自動切角機CY-201，成功打入國外市場，奠定了切角加工製造業的先驅。
Produced Automatic polygon machine CY-201 was marketed worldwide successfully.
- 2000 ~ 2002** 開發完成兩端同時加工車床FC-60800 CNC車床、接續開發出FC-SB10，同時導入ISO9001品質保證。
Produced Both ends cutting CNC lathe FC-60800 and FC-SB10.
- 2003 ~ 2004** 開發出全台第一台FC-1540多邊成型切角車床。積極佈局全球代理商制度拓展外銷市場。
Produced the first CNC polygon machine FC-1540 in Taiwan.
And marketed all our products from our agent system actively.
- 2005 ~ 2006** 開發出FC-SB35 CNC捷式車床。首次與台灣PC BASED合作誕生FC-SA12、SA35...等系列，亦受大陸代理商熱切詢問及下單。
Produced Gang type CNC lathe and cooperate with control box PC BASE to result series FC-SA12、SA35.
- 2006 ~ 2007** 開發出FC-TA220大型兩端同時加工車床及FC-TC10 雙子星CNC車床。
"FASTCUT" 品牌逐漸在全球占有一席之地。
Produced 2 in 1 CNC lathe and TA220 Both end cutting CNC machine. "FASTCUT" is a brilliant brand over the world year by year.
- 2008 ~ 2011** 榮獲經濟部-SBIR創新研究專案以及CITD傳統產業技術開發專案"雙夾頭CNC車床FC-C2F60"。接續將原兩端同時加工CNC車床重新升級改造，更符合客戶操作及品質需求，同時開發完成雙子星CNC車床FC-DF22，將產品線更多元化的延伸，多樣產品的選擇更能貼近客戶的需要及信賴。
Honor to get the allowance from the SBIR and the CITD of "Twin Chuck CNC Lathe FC-C2F60". After then, Fastcut has re-upgrading the both ends cutting CNC lathe, and developing the Twin Spindle CNC lathe FC-DF22. The variety of products that the clients' needs more closely and reliably.
- 2012** 原廠房擴建，提升生產量
Expand factory size to increase production line.



TWO-WAY Spindle Head Unit

雙向主軸頭 適用於高品質、高安全性、自動化產業

► 特性：

- 主軸、迴轉缸與夾頭合為一體，可作單邊或兩端同時加工。
- 獨特設計已申請多國專利
- 配合工作長度，主軸可加裝延長套筒，調整夾持長度，精度不變，靈活實用。
- 若採雙主軸設計，短工件可由單座主軸頭獨立夾持加工；長工件可由雙座主軸頭同時夾持加工。
- 心軸類、管材類兩端外徑同時加工，同心度極高。

獨特設計已申請多國專利

Unique design has applied for worldwide patent.



► Features:

- Spindle, rotation cylinder and chuck well integrated into one body unit. One side cutting or simultaneous cutting on both sides are available.
- Unique design with worldwide patent pending.
- Extension chuck sleeve (optional) adjusts the clamping lengths of different workpiece to achieve more flexibility with high accuracy.
- Unique twin spindle design for short workpiece clamped by single spindle or longer one clamped by 2 spindles.
- Shaft, rod or tubes both ends cutting (O.D. or I.D.) is carried out simultaneously to obtain very high concentricity.

► 夾頭規格/Chuck Specifications

型號 Model	FC-25	FC-42	FC-65	FC-80	FC-125
夾持範圍 Clamping range (mm)	ø5 ~ 25	ø5 ~ 42	ø5 ~ 65	ø10 ~ 80	ø42 ~ 125
最高轉速 Max. speed (rpm)	5,000	4,000	3,000	2,500	2,000

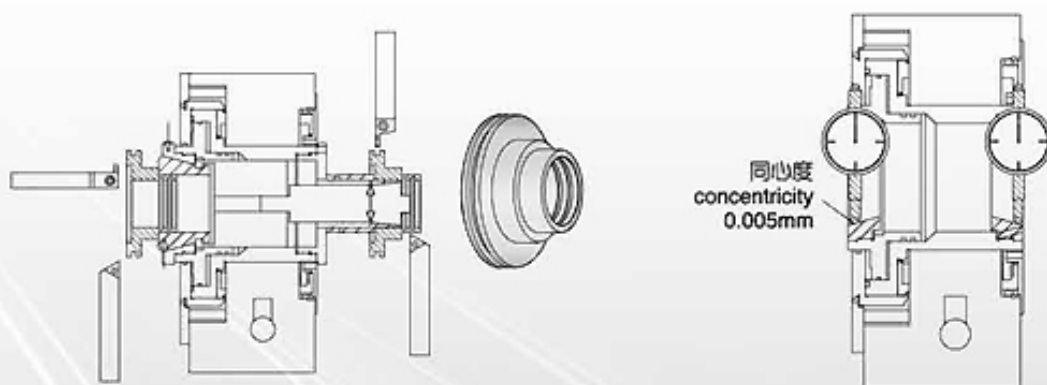
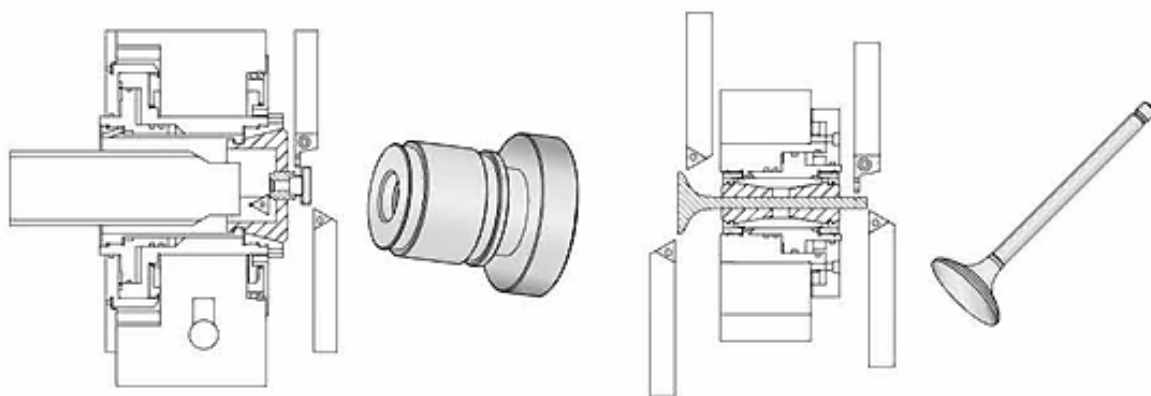
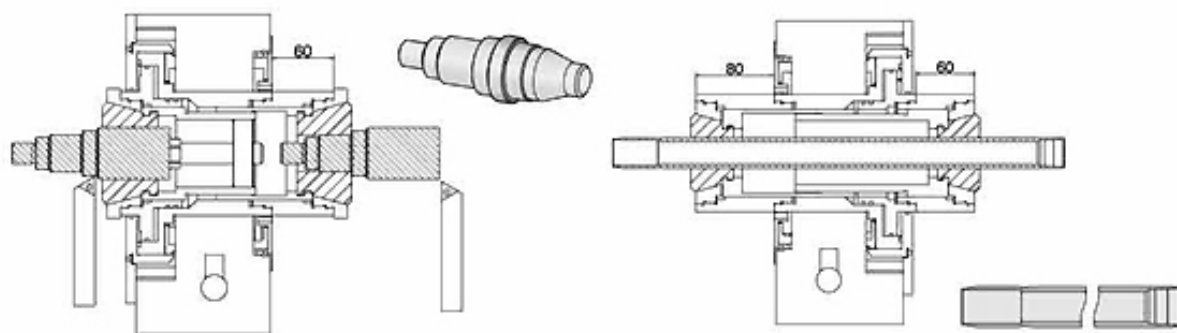
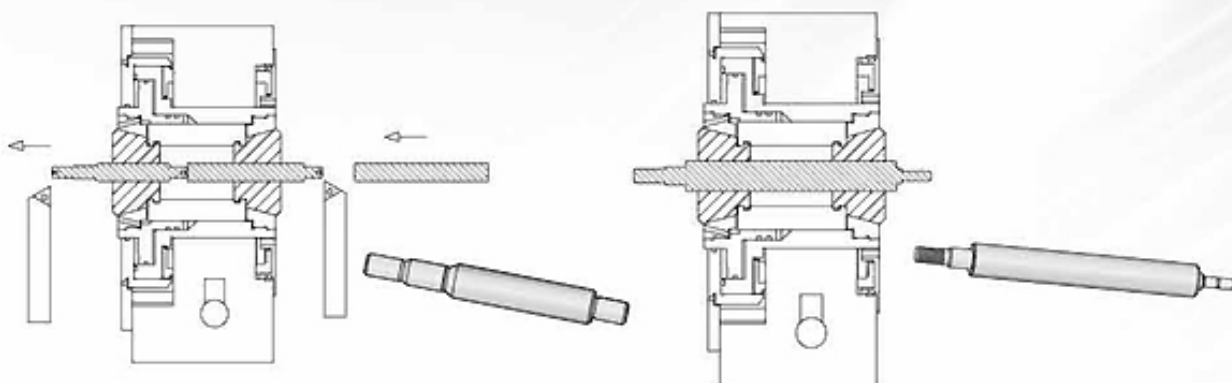
- 可依個別工件需求訂製特殊主軸頭。
- Modified spindle available to meet special job requirements.

► 延長套筒/Extension Chuck Sleeve

型號 Model	FC-#40C	FC-#60C	FC-#80C	FC-#100C
長度 Length (mm)	40	60	80	100

- 可依個別工件需求訂製特殊套筒。
- Modified attached chuck available to meet special job requirements.
- 規格若經修改，恕不另行通知。
- Specifications are subject to change without further notice.

加工圖例 Examples of Workpiece



CSL FC-TF10/TP10

兩端同時加工CNC車床

Center Spindle CNC Lathe



► 特性：

雙系統設計/單主軸·雙刀塔

- 採單主軸、雙刀塔、雙系統設計，雙端同時可做相同或不同加工。
- 心軸類、管類兩端內外徑同時加工，同心度與效益極高。
- 非對稱或異型工件，可依需求設計自動進退料系統。
- 可依個別工件需求訂製特殊主軸頭。

► 樣品圖/Sample



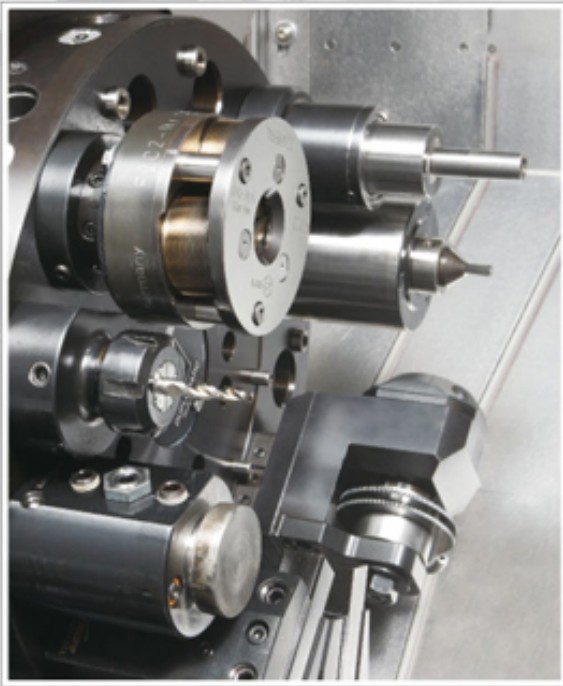
► Features:

Twin CNC System Single spindle, two turrets

- Single spindle (fixed), two turrets (movable) and twin CNC system. Two turrets can operate simultaneously and carry out different cutting process on both ends.
- Shaft, rod, or tubes both ends cutting (O.D.&I.D) are carried out simultaneously to obtain very high concentricity and benefit.
- Special auto loading & unloading system can be fitted to handle workpiece with unsymmetrical or special-shaped on ends.
- Special spindle can be ordered for special job requirements.

► 控制器配備/Control Box

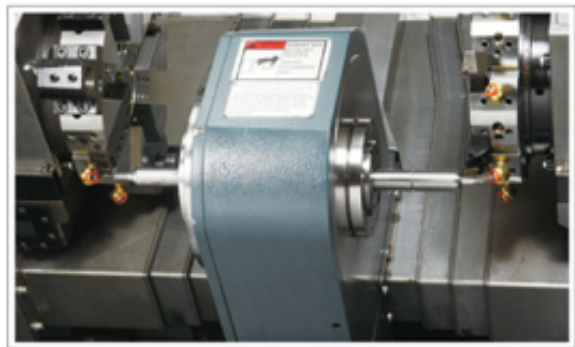
- TF10-FANUC
- TP10-PC BASED



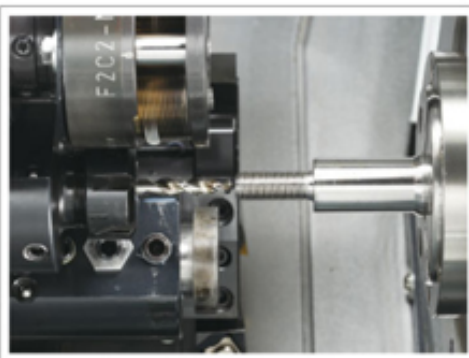
▲ 端銑、側鑽孔、滾牙、換刀(選備)
時間(鄰刀)0.2秒
Facing Milling. Side of drilling. Threading,
neighbor tooling changed by 0.2 sec. (Option)



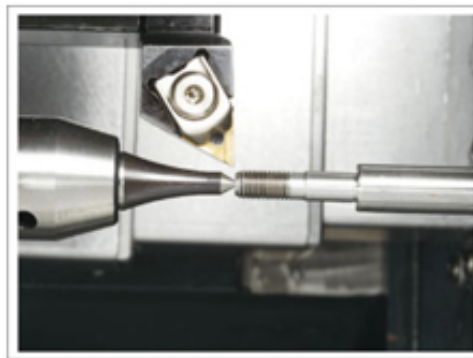
▲ 機上兩端各別滾牙(選備)
Both ends threading function (Option).



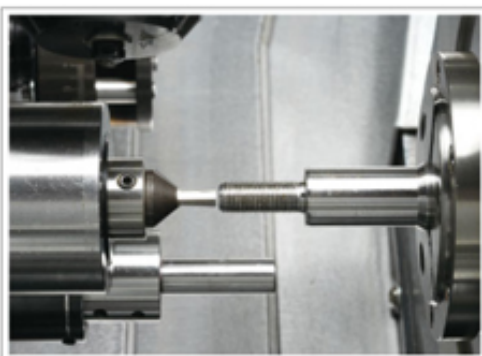
▲ 兩端同時加工
Both ends simultaneous cutting.



▲ 鑽孔 Drilling.



▲ 加裝MT3尾座(選備)
Installation MT3 tailstock. (Option)

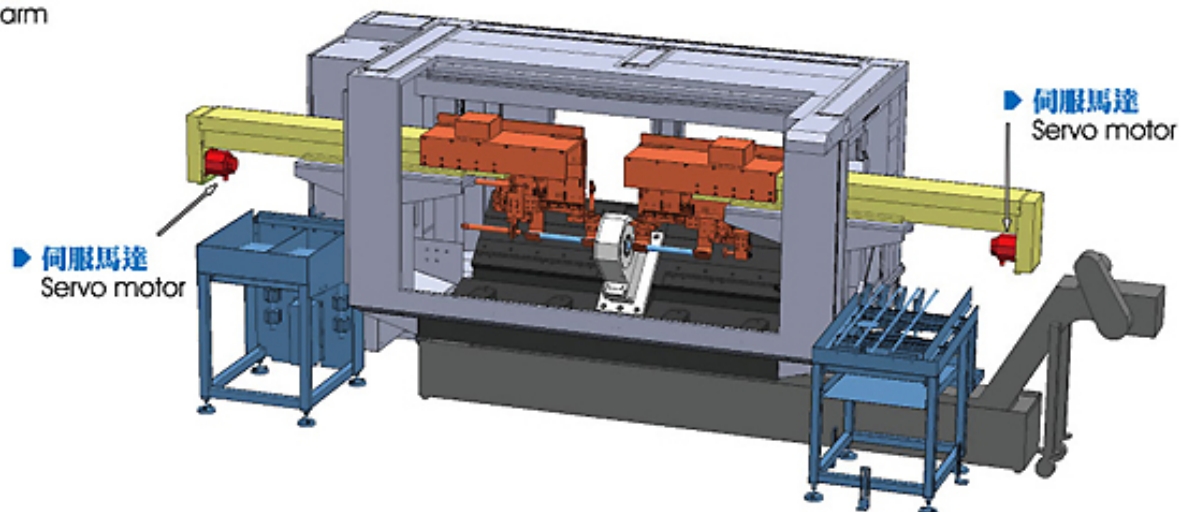
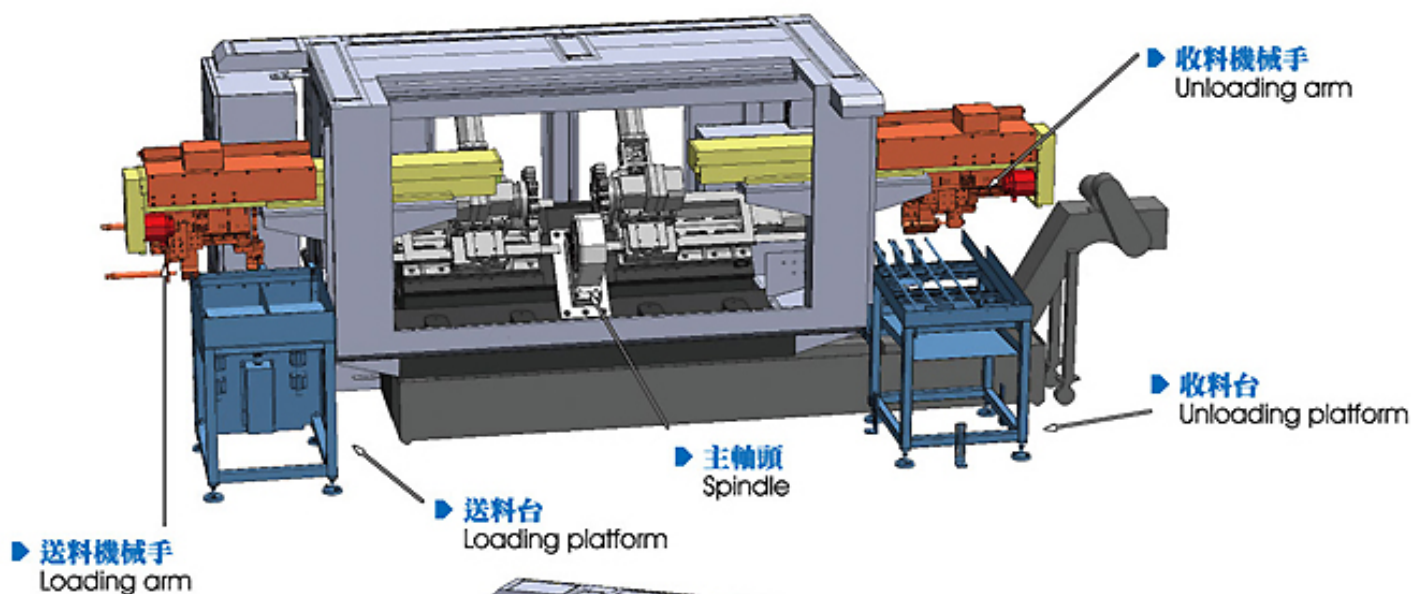


▲ 機上沖各樣式內孔(選備)
Punching hexagon and other
inside diameter turning. (Option)

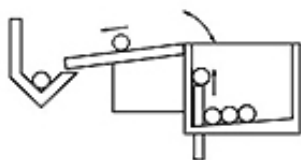


▲ 動力刀塔銑2、4、6平面(選備)
Power turret with radial saw flat milling
by 2,4,6 sides. (Option)

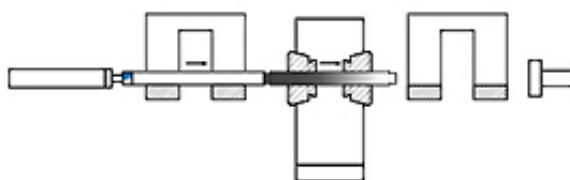
TF10 自動送料



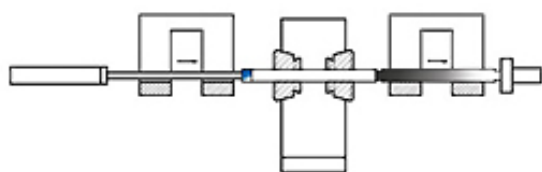
- 1** 送料台取料至送料機械手
Raw applications transfer from loading platform to loading arm



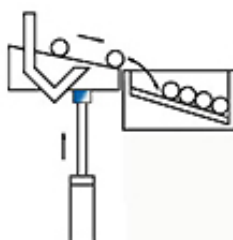
- 2** 送, 收料機械手靠近夾頭, 進行換料
Auto loading system drives near to the spindle for loading/unloading



- 3** 送料機械手頂料至主軸頭內收料機械手取料
Cylinder pushes raw application inside the spindle and finished application landed on unloading arm



- 4** 送料機械手頂料至主軸頭內收料機械手取料
Cylinder pushes raw application inside the spindle and finished application landed on unloading arm



CSL FC-GF42/GP42

兩端同時加工CNC車床

Center Spindle CNC Lathe



► 特性：

雙系統設計/單主軸·雙櫛式刀座

- 採單主軸、雙櫛式刀座、雙系統設計，雙端同時可做相同或不同加工。
- 心軸類、管類兩端內外徑同時加工，同心度與效益極高。
- 非對稱或異型工件，可依需求設計自動退料系統。
- 可依個別工件需求訂製特殊主軸頭。
- 床鞍為直立式，排屑容易。

► 雙系統設計/Control Box

- GF42-FANUC
- GP42-PC BASED

► Features:

Twin CNC System Single spindle, two turrets

- Single spindle (fixed), two turrets (movable) and twin CNC system.
- Two turrets can operate simultaneously and carry out different cutting process on both ends.
- Shaft, rod, or tubes both ends cutting (O.D. & I.D.) are carried out simultaneously to obtain very high concentricity and benefit.
- Special auto loading & unloading system can be fitted to handle workpiece with unsymmetrical or special-shaped on ends.
- Special spindle can be ordered for special job requirements.
- Slope is 90° degree, chip is easy away from.

CSL FC-SF22/SP22

兩端同時加工CNC車床

Center Spindle CNC Lathe



► 特性：

雙系統設計/雙主軸·雙刀塔

- 採單主軸、雙刀塔、雙系統設計，雙端同時可做相同或不同加工。
- 心軸類、管類兩端內外徑同時加工，同心度與效益極高。
- 非對稱或異型工件，可依需求設計自動進退料系統。
- 可依個別工件需求訂製特殊主軸頭。

► Features :

Twin CNC System Single spindle, two turrets

- Single spindle (fixed), two turrets (movable) and twin CNC system.
Two turrets can operate simultaneously and carry out different cutting process on both ends.
- Shaft, rod, or tubes both ends cutting (O.D.&I.D) are carried out simultaneously to obtain very high concentricity and benefit.
- Special auto loading & unloading system can be fitted to handle workpiece with unsymmetrical or special-shaped on ends.
- Special spindle can be ordered for special job requirements.

► 控制器配備/Control Box

- SF22-FANUC
- SP22-PC BASED

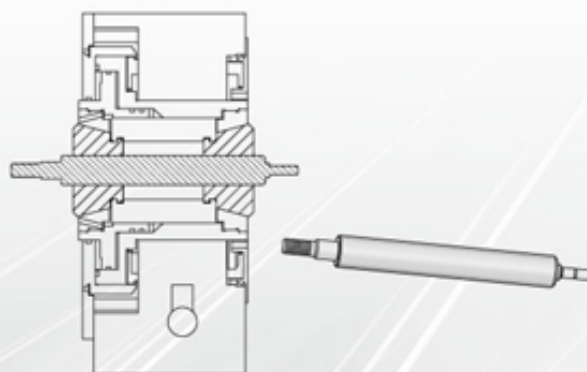
• 兩端同時加工：

Both ends simultaneous cutting

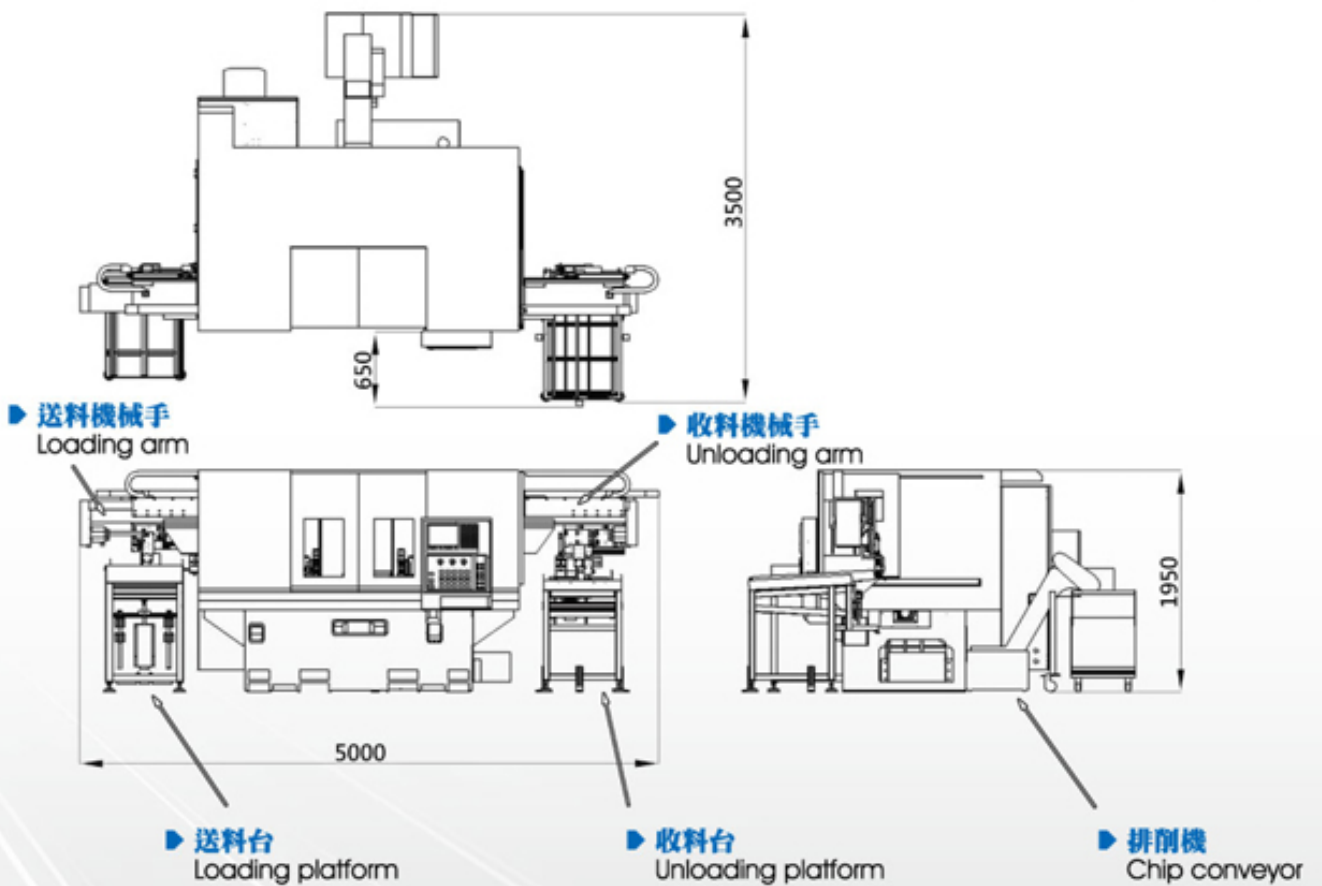
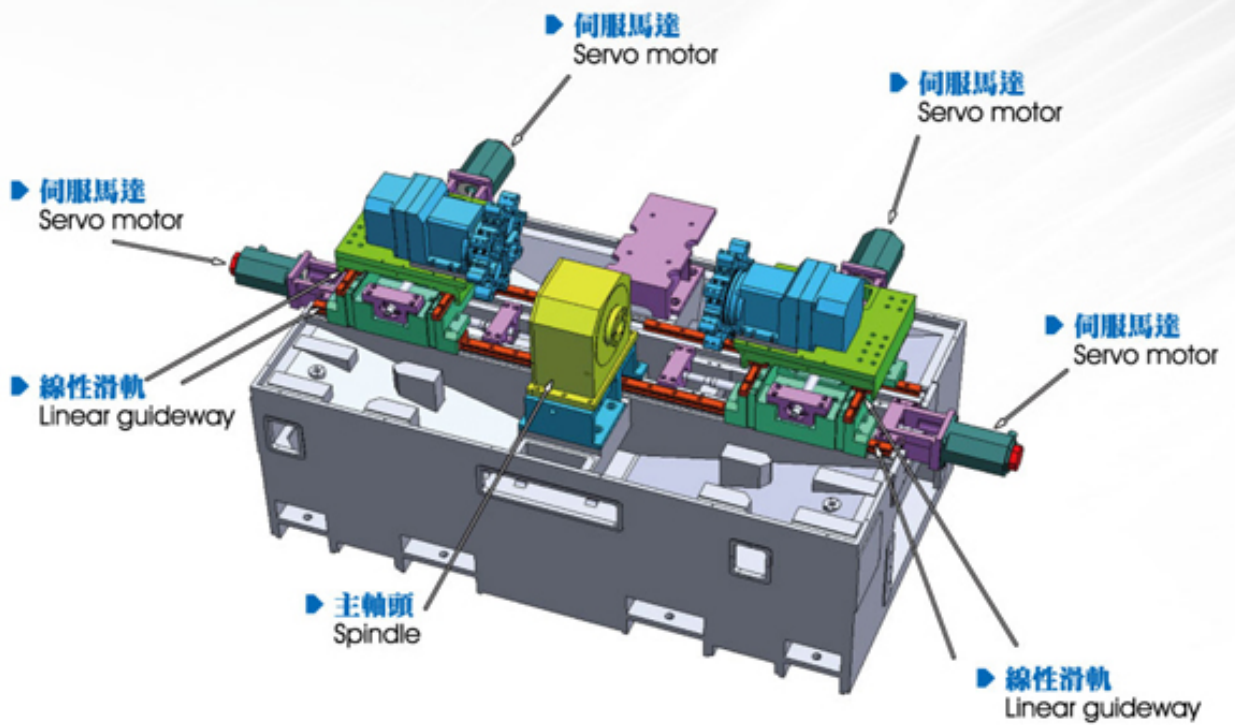


• 加工例線圖：

Example of workpiece



FC-SF22/SP22 線構圖



CSL FC-TA22

兩端同時加工CNC車床

Center Spindle CNC Lathe



► 特性：

- 採雙主軸、雙刀塔、雙系統設計，單座可獨立加工，雙座可同步或非同步加工。
- 獨特設計已榮獲多國專利。
- 心軸類、管材類兩端內外徑同時加工，同心度與效益極高。
- 可依工件需求設計自動進收料系統。

► Features:

- Twin spindle (movable), twin turret (movable) and twin CNC system. Each single spindle could operate independently. Twin spindle can cut simultaneously or sequentially.
- Unique design with worldwide patent achieved.
- Shaft, rod or tubes both ends cutting (O.D. or I.D.) are carried out simultaneously to obtain very high concentricity and benefit.
- Auto loading & unloading system is available for different job requirement.



兩台主軸夾持長度800mm
Max. Clamping length of twin spindle is 800mm.



兩端同時加工
Both ends simultaneous cutting.



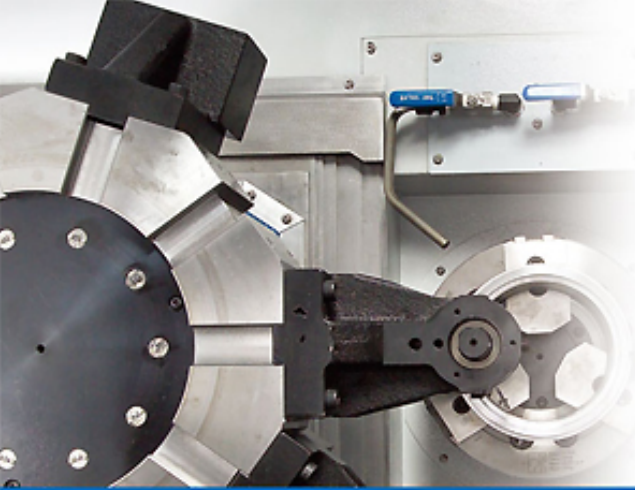
短工件可以單主軸夾持
Short workpiece clamped by single spindle.

兩端CNC車床加工例

Example of Workpiece for Center Spindle CNC Lathe



- | | | | |
|--------------|---|------------|-----------------------------|
| 01 哈雷機車避震器外管 | Harley motorcycle outer shock absorbers | 11 汽車零件 | Car parts |
| 02 哈雷機車避震器內管 | Harley motorcycle inner shock absorbers | 12 夾頭零件 | Chuck parts |
| 03 跑步機轉動軸 | Treadmill shaft | 13 油壓、接頭 | Hydraulic connector |
| 04 汽車轉動軸 | Shaft vehicles | 14 汽門 | Valves |
| 05 避震器外管 | Outer absorber | 15 避震器軸心 | Shock absorber axis |
| 06 滾輪軸心 | Shaft axis | 16 避震器外管 | Shock absorbers outer |
| 07 汽車轉動軸 | Vehicles rotation axis | 17 汽車座椅調整桿 | Car seat transmission shaft |
| 08 傳真影印機轉動軸 | Fax machine rotation axis | 18 紡織機羅拉 | Roller of textile machine |
| 09 汽車傳動軸 | Vehicles shaft | 19 關門器齒輪軸 | Door closer gear shaft |
| 10 汽門 | Valves | | |



TIOFC-TC10

雙子星CNC車床

Twin Spindle CNC Lathe (2 in 1 CNC Lathe)

2 in 1 > 1+1



► 特性：

獨特設計/雙主軸·雙刀塔

- 將兩部獨立的车床合而為一；搭配使用兩套數控系统，既可個別操作，亦可聯合作業，完成另一半的加工流程。

► Features:

Unique design Two spindle heads, two turrets

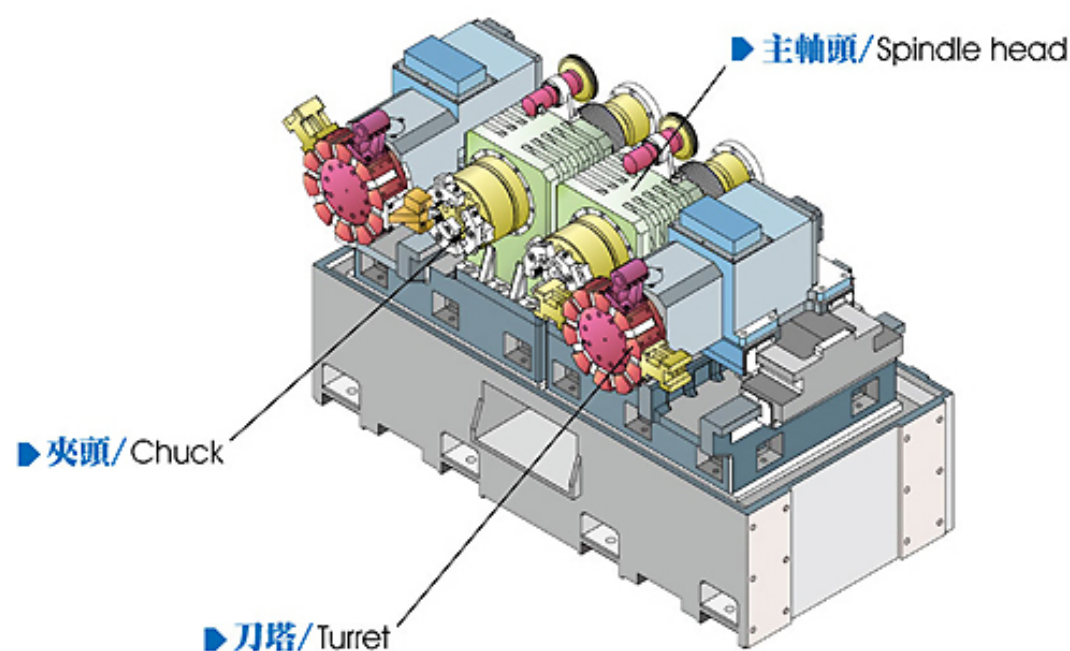
- The unique integration of two independent lathes and two sets of CNC control systems that operate individually or as one to complete one sequential manufacturing process.

► 降低成本

- 使用上與一般運用兩部車床一樣但是更可節省佔地面積、雇用人員，以及搬運與運轉的時間。
- 選配機械手為自動送收料系統，更是達到完全自動化與減少人員聘任的最佳選擇。

► Cost down

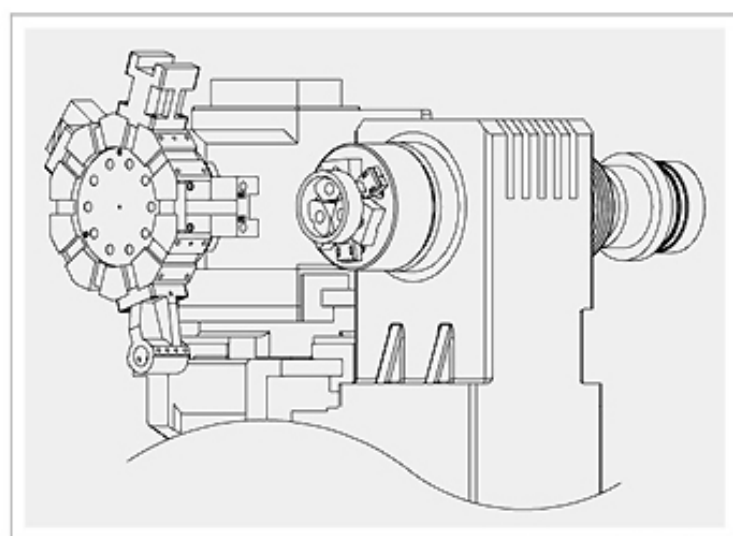
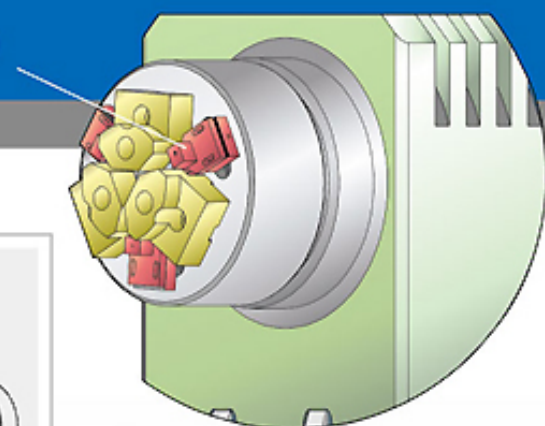
- Functioning as normal two lathes but saving factory floor area, labor and the time for transportation and operation.
- Optional robots (2 units) as for automatic loading & unloading system to reach full automation and Saving labor cost.



► 內部結構/ Spindle Structure

著位氣密檢出

Air pressure sensing through
fixed work locators (3 places)



TIOFC-TS06

1對2車床

One For Two Lathe



▶ 特性：

- 自動送收料與零件自動檢測系統整合功能。
- 雙機台採用六軸機械手臂送收料系統。

▶ Features:

- Automatic loading / Unloading plus measuring system.
- Six-axis robot arm for two machines.

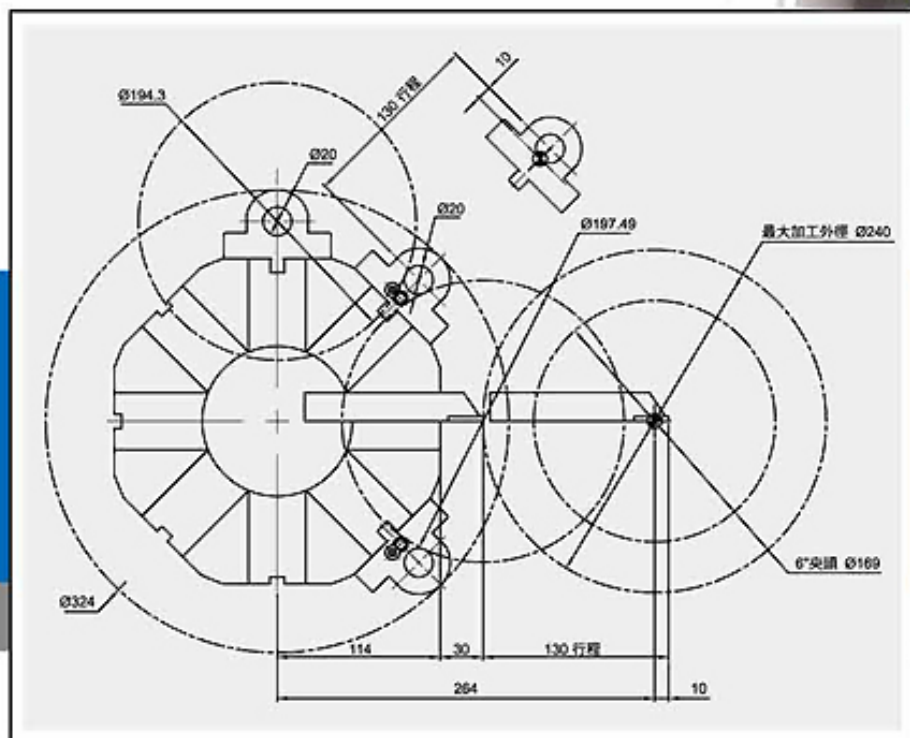


▲ 機械手機台A送收料
Robot arm for machine A.

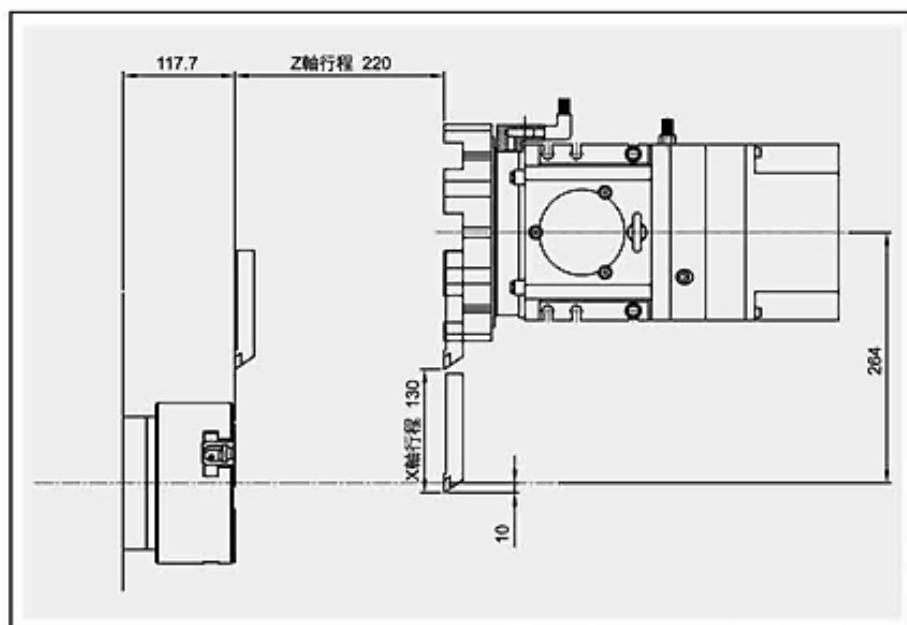


▲ 機械手機台B送收料
Robot arm for machine B.

► 干涉圖/Interferogram



► 刀塔行程圖/Turret drawing



TIO FC-DF11/DP11

雙車床

2 Combo Lathe



▶ 特性：

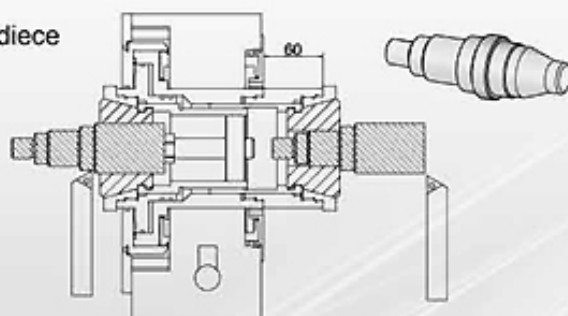
- 單主軸、雙頭夾，可同時夾持不同尺寸工件。
- 一台CNC車床可同時切削二個不同工件。
- 一個人操作二台機械，等於傳統4台機械可節省人力，減少1/2佔地面積。

▶ Features：

- Single Spindle with two chucks, able to clamp two different diameters work piece.
- Tooling two different detail at same time.
- Allows one operator to operate two CNC lathe at same time. Multiple effect will take place if more DP-11 are in production line. Saving production area

● 加工例線圖：

Examples of workpiece



● 同時切削二個工件：

Tooling two different work piece at same time

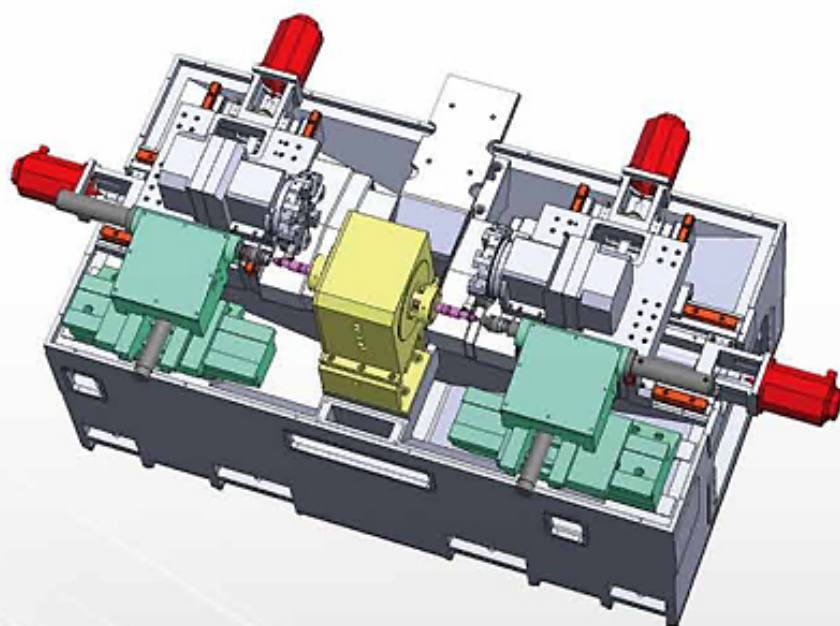
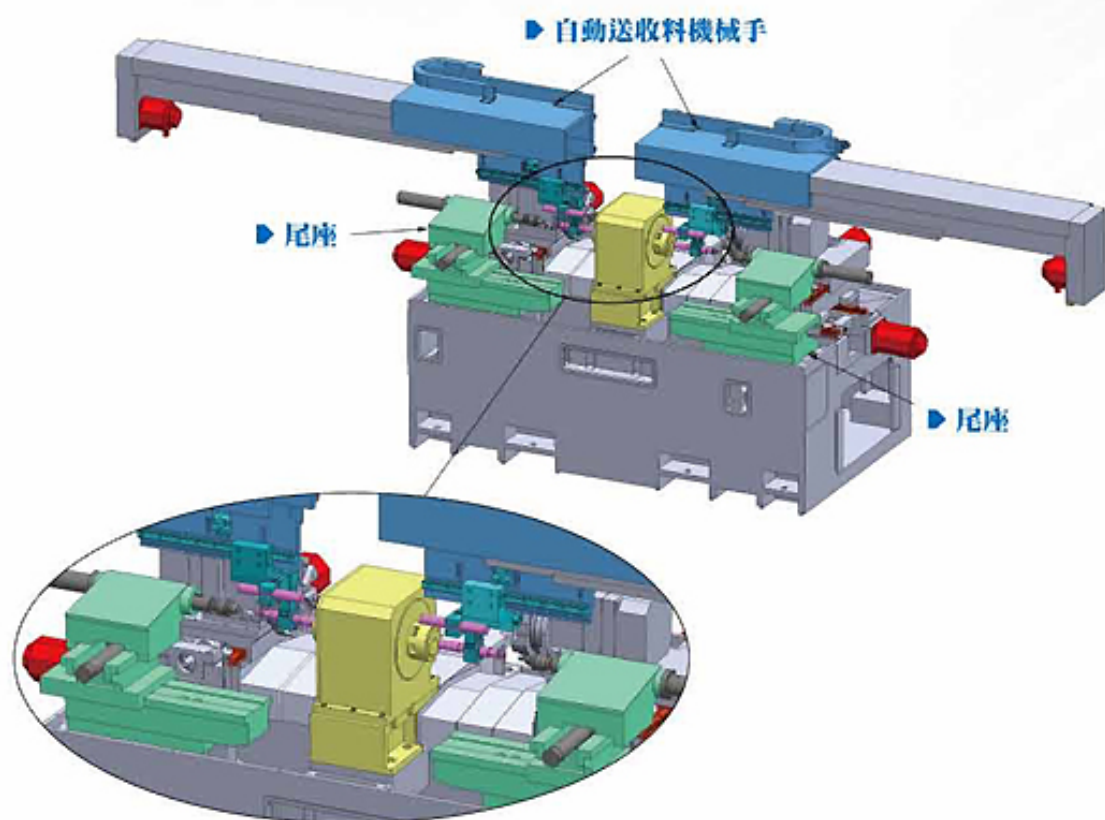


● 同時切削自動送二個工件：

Loading/unloading for two separate work piece at same time



DP11 線構圖



DUO FC-C2F60

雙夾頭CNC車床

Twin Chuck CNC Lathe



► 特性：

雙頂心・雙夾頭 分別左右兩邊切削

- Twin ends center and chuck : Separated turning by two side.



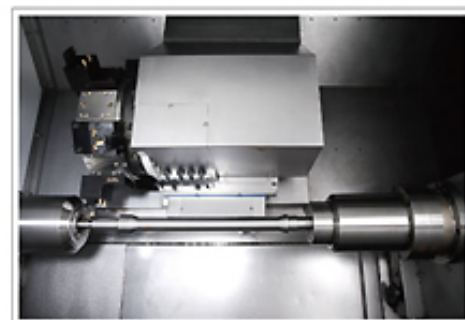
▲ 雙頂心：雙夾頭

Twin ends center and chuck.



▲ 左邊夾持、右邊車削

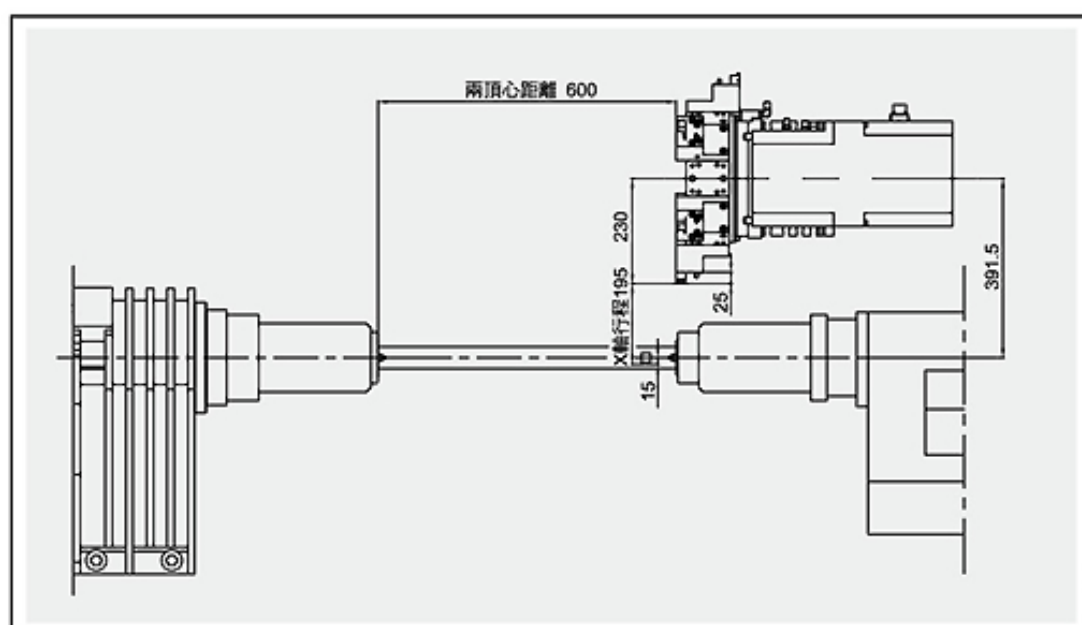
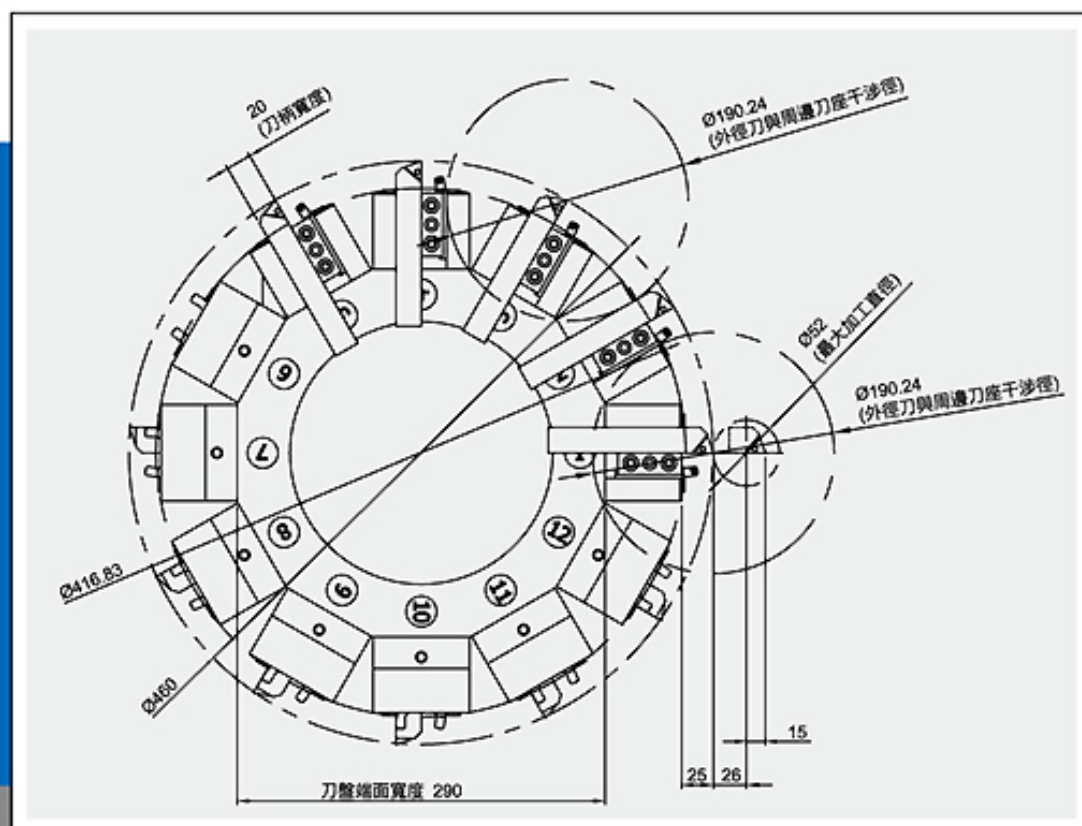
Left clamping and Right turning.



▲ 右邊夾持、左邊車削

Right clamping and Left turning.

► 干涉圖/ Interferogram



► 刀塔行程圖/ Turret drawing

切角機加工圖例

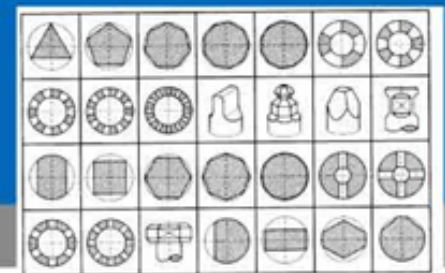
Examples Of Workpiece For Polygon Machine



POLY FC-1540

多邊成形切角CNC車床

Polygon CNC Lathe



加工圖例
Examples of polygon contouring.

- 規格若經修改，恕不另行通知。
- Specifications are subject to change without further notice.



CNC車床功能
Turning function by.



車削後CNC切角成型
CNC polygon cutting after turning.



▶ 特性：

- 結合CNC車床與NC多邊成型機（切角機），專供複合車削與切角工作加工使用。
- 獨特設計已申請多國專利。
- 車削、切角一機完成，同心度精準。
- 加裝動力刀塔可鑽孔、刻字，功能更強。

▶ Features:

- Well integrated CNC turning lathe with NC polygon cutter highly suitable for turning and polygon cutting operation.
- Unique design with worldwide patent pending.
- Turning and polygon cutting are performed in one machine to achieve extremely high concentricity and symmetry.
- Power milling turret (optional) for boring and contouring operation.

POLY FC-65NCL/65NC

CNC多邊成型切角車削複合機

CNC Polygon Machine With Turning Function



6刀位車刀頭，兼具車削與多邊型切削功能。
Turning and polygon cutting function by the
single 6-tool station cutter head.



▶ 特性：FC-65NCL

- 別出心裁，將CNC切角機與CNC車床基本功能結合一體，可車削、可多邊切角，節省場地、人員與搬運運轉成本。
- 採電腦數控系統，X軸Z軸由伺馬達驅動，可做各種多邊成型加工。
- 免用仿型模具，弧形、特型切角加工，變化容易。
- 結構堅固、性能優越。配備電腦，功能升級。

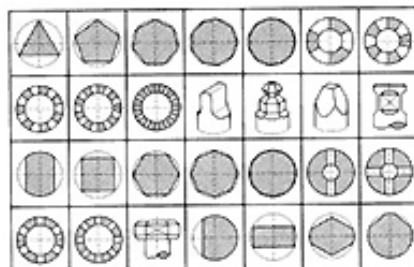
▶ Features:

- The unique integration of CNC polygon machine with basic CNC lathe function for turning and polygon cutting are carried out at the same machine.
- Saving factory floor area , labor and the time for transportation and operation.
- Variety polygon cutting can be performed by CNC control system and X & Z axis driven by servo motors.
- Copying polygon cutting without conventional profiling attachment , unlimited contouring.

FC-65NC

特 性：FC-65NC僅具電腦切角功能。

Features: FC-65NC process polygon cutting
with CNC controller only.



加工圖例

Examples of polygon contouring.

POLYCY-6501/6511

多邊成型切角機

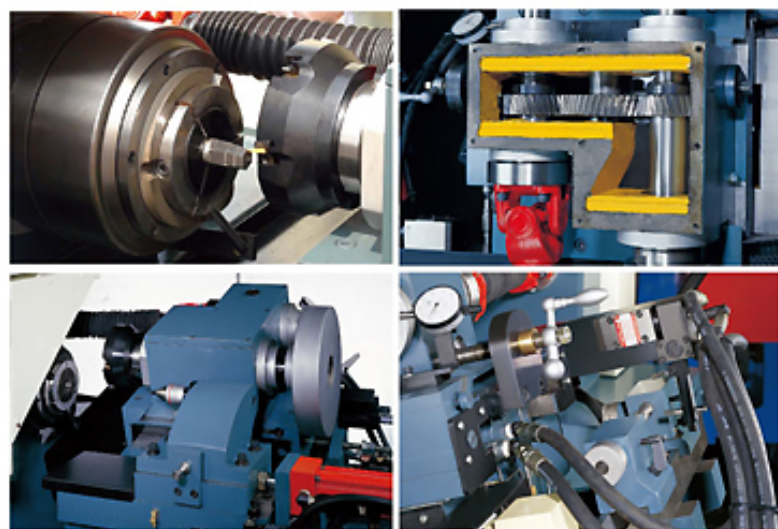
Automatic Polygon Machine



▶ 全罩式/ Full guard type



▶ 半罩式/ Half guard type



◀ 斜齒輪、耐用、扭力強
Long lasting bevel gear
with high torque.

▲ 尾座 Tailstock.

▲ 仿型裝置
Profiling attachment.

▶ 特性：

- 偶數切角、仿型切角、偏心切角、重複切角。
- 結構堅固、性能優越、功能齊全。

▶ Features:

- Wide cutting range applies to even number polygon cutting, eccentric cutting, profiling cutting and 2 phase cutting etc.
- Rigid construction, high performance, functions all in one.

POLY 多邊成型切角機

Automatic Polygon Machine

型號	Model	UNIT	FC-1540	FC-65NCL	FC-65NC
加工能力	Capacity				
最大旋徑	Max. swing	Ø mm	200		
最大加工直徑	Max. turning diameter	Ø mm	150	50	50
最大加工長度	Max. turning length	mm	300	150	150
兩心間距離	Distance between centers	mm		200	200
主軸	Spindle				
最高轉速	Max. speed	rpm	4000	3000	500
主軸鼻端	Spindle nose		A2-6	A2-6	A2-6
主軸孔徑	Spindle bore	Ø mm	62	65	65
棒材通孔	Bar capacity	Ø mm	52	45	50
進給速度	Feedrate				
X,Z 軸	X/Z axis rapid traverse	M/min.	15	15	12
行程	Stroke				
X軸行程	X axis stroke	mm	450	60	60
Z軸行程	Z axis stroke	mm	340	150	165
刀塔	Turret				
刀塔數	No. of turret	unit	1	-	-
刀塔型式	Turret type	servo	V8	-	-
外徑刀具	O.D. tool shank	□mm	20x20	-	-
內徑刀具	I.D. tool shank	Ø mm	25	-	-
切角刀盤					
刀盤型式	Polygon cutter type		FASTCUT	FASTCUT	FASTCUT
刀具尺寸	Tool size	□mm	16 x 16	16 x 16	16 x 16
馬達	Motors				
主軸馬達	Spindle motor	KW	7.5	5.5	3.75
X 軸馬達	Servo motor, X axis	KW	1	1	0.6
Z 軸馬達	Servo motor, Z axis	KW	1	1	0.6
油壓幫浦	Hydraulic pump	HP	2	2	1
潤滑油幫浦	Lubrication pump	W	25	25	6
切削液馬達	Coolant pump	KW	0.375	0.2	0.2
機械尺寸	Machine size				
長度	Length	mm	2920	2970	1800
寬度	Width	mm	1810	1800	1740
高度	Height	mm	2100	1930	1600
淨重	Net weight	kgs	3500	3500	2500
毛重	Gross weight	kgs	4500	4000	3000

- 規格若經修改，恕不另行通知。
- Specifications are subject to change without further notice.

▶ 標準配備 / Standard

		FC-1540	FC-65NCL	FC-65NC
全密外罩	Full guard	○	○	○
冷卻系統	Coolant system	○	○	○
電控冷氣機	Air conditioner	○	○	○
操作面板	Operator panel	○	○	○
工具箱	Tools for set up	○	○	○
氣/油壓系統	Pneumatic/Hyd. Systerr	○	○	○
警示燈	Tower light	○	○	○
照明燈	Work light	○	○	○
排屑機	Chip conveyor	○	○	-
鐵屑車	Chip bucket	○	○	○
車刀頭	Cutter head	○	○	○
強力油壓夾	Hydraulic power chunk	○	○	○

▶ 選購配備 / Optional

		FC-1540	FC-65NCL	FC-65NC
夾頭	Chuck	○	○	○
夾具	Collet	○	○	○
控制器	FANUC / PC BASED	FANUC	FANUC	FANUC / PC BASED
尾座	Tailstock	-	○	○
動力刀塔	Power milling	○	-	-
自動送料系統	Auto load & unload system	○	○	○

CY-6501 ▶ 規格/Specifications (半罩式) Half Guard

型號 Model	功能 Functions
CY-6501	基本型 (半罩式) Basic Type + Half Guard
CY-6502	基本型 (半罩式) + 仿型功能 Basic Type + Half Guard + Profiling Attachment
CY-6503	基本型 (半罩式) + 仿型功能 + 二次進刀 Basic Type + Half Guard + Profiling Attachment +2 Phase Cutting
CY-6511	基本型 (全罩式) Basic Type + Full Guard
CY-6512	基本型 (全罩式) + 仿型功能 Basic Type + Full Guard + Profiling Attachment
CY-6513	基本型 (全罩式) + 仿型功能 + 二次進刀 Basic Type + Full Guard + Profiling Attachment +2 Phase Cutting

▶ 標準配備/Standard

標準車刀頭	Standard cutter head
變頻器	Inverter
半罩式 (或)	Half guard(or)
全罩式鋁金	Full guard
強力油壓夾頭	Hydraulic power chuck
標準後定位器	Standard rear locator
副夾具	Attached jaws
手動注油器	Manual lubricator

CY-6511 ▶ 規格/Specifications (全罩式) Full Guard

型號 Model	UNIT	CY-6501/6502/6503	CY-6511/6512/6513
加工直徑 Workpiece dia.	Ø mm	50	50
最大加工長度 Max. turning length	mm	100	100
兩心間距離 Distance between centers	mm	200	200
X軸行程 X axis stroke	mm	60	60
Z軸行程 Z axis stroke	mm	100	100
最高轉速 Max. speed	rpm	500	500
主軸鼻端 Spindle nose		A2-6	A2-6
主軸通孔 Spindle bore	Ø mm	65	65
主軸馬達 Main motor	HP	5	5
油壓馬達 Hydraulic unit motor	HP	1	1
動力需求 Power requirement	KW	4.5	4.5
機械尺寸 Machine dim.(LxWxH)	mm	1,555x1,220x1,640	1,705x1,340x1,870
裝箱尺寸 Packing dim.(LxWxH)	mm	1,755x1,300x1,870	1,905x1,420x1,930
淨重/毛重 N.W./G.W.	kgs	1,930 / 2,130	2,000 / 2,300

▶ 選購配備/Optional

刀柄式車刀頭	O.D. tool cutter head
尾座	Tailstock
自動送料	Auto load / unload system
中間切削	Central position cutting
專用對位器	Particular rear locator
光學尺	Linear
被動式夾頭	Collet chuck
筒夾	Collet
夾套	Sleeve

- 規格若經修改，恕不另行通知。
- Specifications are subject to change without further notice.

DUO 雙頂心CNC車床

Automatic Polygon Machine

型號	Model	UNIT	FC-C2F60	FC-C2F30
加工能力	Capacity			
最大加工直徑	Max. turning diameter	Ø mm	52	5-32
主軸	SPINDLE			
主軸數	No. of spindle	unit	2	2
主軸鼻端	Spindle nose	unit	A2-6	A2-5
最高轉速	Max. speed	rpm	3000	4000
副主軸	Second spindle	unit	A2-5	A2-5
進給速度	Feedrate			
X,Y,(Z) 軸快速移動	X/Z axis rapid traverse	M/min.	20	20
行程	Stroke			
X1 軸行程	X1 axis stroke	mm	220	180
Z1 軸行程	Z1 axis stroke	mm	600	300
副主軸行程	Second motor axis strok	mm	600	300
刀塔	Turret			
刀塔數	No. of turret	unit	1	1
刀塔型式	Turret type	servo	V12-st	V10-st
外徑刀具	O.D. tool shank	□mm	20 x 20	16 x 16
內徑刀具	I.D. tool shank (Max.)	Ø mm	25	20
馬達	Motors			
主軸馬達	Spindle motor	KW	7.5	5.5
副主軸馬達	Second motor	KW	5.5	3.5
X 軸馬達	Servo motor, X axis	KW	1.6	1.0
Z 軸馬達	Servo motor, Z axis	KW	1.6	1.0
油壓幫浦	Hydraulic pump	HP	5	5
潤滑油幫浦	Lubrication pump	W	25W x 2	25W x 2
切削液馬達	Coolant pump	KW	0.75	0.375

- 規格若經修改，恕不另行通知。
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▶ 標準配備 / Standard

全密外罩	Full guard
冷卻系統	Coolant system
電控冷氣機	Air conditioner
操作面板	Operator panel
工具箱	Tools for set up
氣/油壓系統	Pneumatic/Hyd. System
警示燈	Tower light
照明燈	Work light
排屑機	Chip conveyor

▶ 選購配備 / Optional

夾頭	Chuck
夾頭延長套筒	Extension Chuck sleeve
筒夾	Collet
自動送收料系統	Auto load/unload system.
油霧回收機	Oil mist collector
控制器	FANUC / PC BASED

TIO 雙子星CNC車床

Twin Spindle CNC Lathe (2 in 1 CNC Lathe)

型號	Model	UNIT	FC-TC10	FC-DF22	FC-DF11
加工能力	Capacity				
最大加工直徑	Max. turning diameter	Ø mm	25~250	10~160	
主軸	SPINDLE				25/42/65/80
主軸數	No. of spindle	unit	2	2	1
主軸鼻端	Spindle nose	unit	A2-8	A2-5	
最高轉速	Max. speed	rpm	3000	3000	5000/4000/3000/3000
夾頭	Chuck size	Ø m/m	Ø 10	6"	-
副主軸	Second spindle	unit	-	-	-
主軸通孔徑	Spindle bore	Ø mm	75	62	25/42/65/80
棒材通孔徑	Bar capacity	Ø mm	61	52	25/42/65/80
進給速度	Feedrate				
X,Y,Z) 軸快速移動	X/Z axis rapid traverse	M/min.	15 / 20	12	16
行程	Stroke				
X1 軸行程	X1 axis stroke	mm	170	130	100
X2 軸行程	X2 axis stroke	mm	170	130	100
Z1 軸行程	Z1 axis stroke	mm	170	220	220
Z2 軸行程	Z2 axis stroke	mm	170	220	220
刀塔	Turret				
刀塔數	No. of turret	unit	2	2	2
刀塔型式	Turret type	servo	V10-st	V8-st	V8-st
外徑刀具	O.D. tool shank	□mm	25 x 25	20 x 20	20X20
內徑刀具	I.D. tool shank (Max.)	Ø mm	40	25	25
馬達	Motors				
主軸馬達	Spindle motor	KW	15 x 2	5.8	7.5
X 軸馬達	Servo motor, X axis	KW	1.6 x 2	1	1
Z 軸馬達	Servo motor, Z axis	KW	3.0 x 2	1	1
油壓幫浦	Hydraulic pump	HP	3	5	2
潤滑油幫浦	Lubrication pump	W	25W x 2	25W x 2	12
切削液馬達	Coolant pump	KW	1	1	0.75
機械尺寸	Machine size				
長度	Length	mm	4400	3580	3920
寬度	Width	mm	2580	1900	2150
高度	Height	mm	2970	1960	1900
淨重	Net weight	kgs	7500	5500	4500
毛重	Gross weight	kgs	8500	6500	5000

- 規格若經修改，恕不另行通知。
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▶ 標準配備 / Standard

全密外罩	Full guard
冷卻系統	Coolant system
電控冷氣機	Air conditioner
操作面板	operator panel
工具箱	Tools for set up
氣/油壓系統	Pneumatic/Hyd. System
警示燈	Tower light
照明燈	Work light
排屑機	Chip conveyor

▶ 選購配備 / Optional

夾頭	Chuck
夾頭延長套筒	Extension Chuck sleeve
筒夾	Collet
自動送收料系統	Auto load/unload system
油霧回收機	Oil mist collector
控制器	FANUC / PC BASED

CSL 兩端同時加工CNC車床

Both Ends Simultaneous Cutting CNC Lathe

型號	Model	UNIT	FC-TA22	FC-TF10 / TP10	FC-GF39	FC-GF42	FC-SF22
主軸	SPINDLE						25/42/65/80
主軸數	No. of spindle	unit	2	1	1	1	1
最高轉速	Max. speed	rpm	3000	4000	4000	4000	5000/4000/3000/3000
進給速度	Feedrate						
X,Y,(Z) 軸快速移動	X/Z axis rapid traverse	M/min.	12	12	12	12	16
行程	Stroke						
X1 軸行程	X1 axis stroke	mm	220	100	390	420	100
X2 軸行程	X2 axis stroke	mm	220	100	390	420	100
Z1 軸行程	Z1 axis stroke	mm	500	220	220	220	220
Z2 軸行程	Z2 axis stroke	mm	500	220	220	220	220
Y1 軸行程	Y1 axis stroke	mm	885	-	-	-	-
Y2 軸行程	Y2 axis stroke	mm	670	-	-	-	-
刀塔	Turret						
刀塔數	No. of turret	unit	2	2	2	2	2
刀塔型式	Turret type	servo	V8-st	V8-st	Gang type	Gang type	V8-st
外徑刀具	O.D. tool shank	□mm	20 x 20	20 x 20	20 x 20	20 x 20	20X20
內徑刀具	I.D. tool shank (Max.)	∅ mm	25	25	25	25	25
馬達	Motors						
主軸馬達	Spindle motor	KW	7.5	7.5	7.5	7.5	7.5
X 軸馬達	Servo motor, X axis	KW	1	1	1.5	1	1
Z 軸馬達	Servo motor, Z axis	KW	1	1	1.5	1	1
油壓幫浦	Hydraulic pump	HP	2	2	2	2	2
潤滑油幫浦	Lubrication pump	W	12	12	12	12	12
切削液馬達	Coolant pump	KW	0.375	0.75	0.75	0.75	0.75
機械尺寸	Machine size						
長度	Length	mm	3000	4030	3000	1880	2700
寬度	Width	mm	1920	1920	2500	1616	2150
高度	Height	mm	2000	1980	2000	1975	1900
淨重	Net weight	kgs	5000	5000	5000	4500	4200
毛重	Gross weight	kgs	5500	5500	5500	5000	5000

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▶ 標準配備/Standard

全密外罩	Full guard
冷卻系統	Coolant system
電控冷氣機	Air conditioner
操作面板	Operator panel
工具箱	Tools for set up
氣/油壓系統	Pneumatic/Hyd. System
警示燈	Tower light
照明燈	Work light
排屑機	Chip conveyor

▶ 選購配備/Optional

夾頭	Chuck
夾頭延長套筒	Extension Chuck sleeve
動力刀塔	Power milling
筒夾	Collet
自動送收料系統	Auto load/unload system
油霧回收機	Oil mist collector
控制器	FANUC / PC BASED
尾座	Tailstock(TF10)

▶▶▶ 全力投入本業
Sincerity

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