



GE FONG GO-265 / GO-325  
GO-266 / GO-326

PRECISION SWISS TURN  
GANG TOOL TYPE CNC LATHE  
走心櫛式CNC精密車床



**Simultaneous complex machining**  
with main and back spindles!

主軸/副主軸同時複合加工

**GO-265 / GO-325**  
**GO-266 / GO-326**

可加工更大棒材(Ø 26/32mm)、剛性更高、主軸馬達馬力更大、更多刀具配置選擇。

**More innovative features available**

- Larger bar capacity (Ø 26/32mm)
- Higher Rigidity
- Powerful spindle motors
- Greater tooling layout choices



# Simultaneous complex machining with main and back spindles!

## 主軸/副主軸同時複合加工

- 更多側面刀(共7支), 彈夾式刀具轉軸設計(右側側面刀及背面刀),可與其他不同刀具轉軸或固定刀轉換座互換, 可提供更多之刀具配置選擇。
- More cross tools (7 in total)
- Cartridge type design for tool spindle (Right cross tool and back tool)
- Available to be equipped with other different tool spindle or fixed tool adaptor
- Wider choices for tooling layout



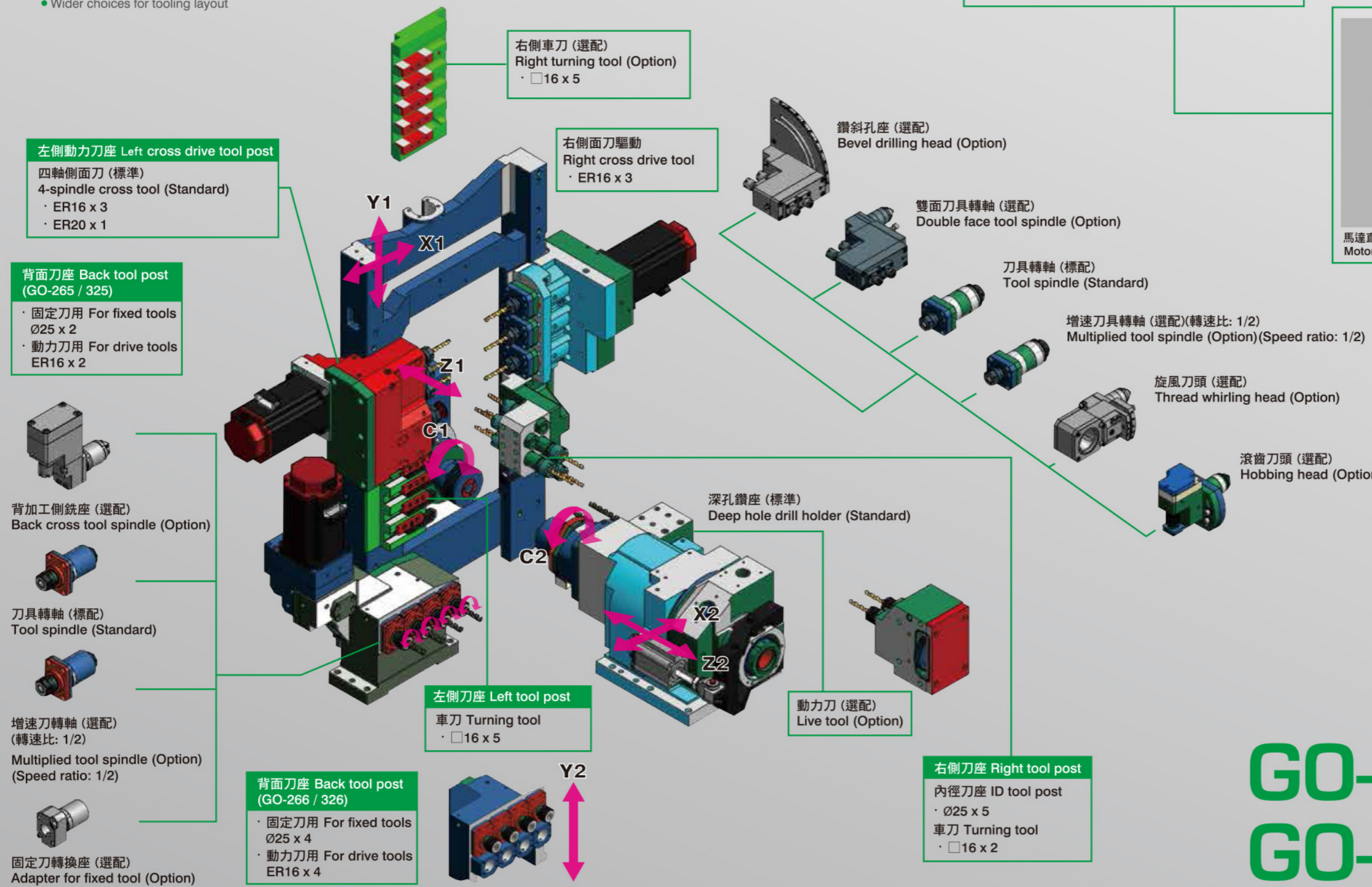
背面主軸 Back spindle



工件輸送帶 Workpiece conveyor



馬達直接驅動式旋轉導套座  
Motor direct-drive rotary guide bushing holder



# GO-265 / 325



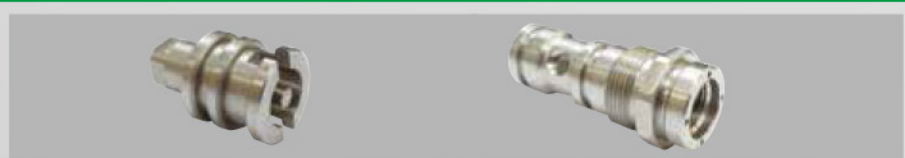

# GO-266 / 326

## 特點

- 內藏式雙主軸馬達，提高兩主軸同步旋轉轉速、相位角之精確性，以及加工精度。
- 馬達直接驅動式旋轉導套，可大幅提升外型、尺寸精度及表面光滑度，並降低高轉速時產生的噪音。
- 搭配獨立之背面刀座及X2軸，使主軸及副主軸能同時個別獨立進行加工，增進產能。
- 依工件需求選用合適的導套模式進行加工。  
固定導套 / 旋轉導套 / 無導套式  
搭配無導套式加工時，可選用冷抽棒材，並減少殘材長度。
- 直接C軸分度定位縮短定位時間，且以主軸制車裝置確保C軸分度之主軸保持力度。
- 右側面動力刀座可裝設旋風銼或滾齒刀頭，加工骨釘、齒輪等零件。
- 大容量鐵屑盤。
- GO-325/GO-326主軸採用油壓缸以夾緊棒材，避免加工時棒材退縮。

## 適用於各類金屬零件加工

### Suitable for various metal material parts processing.

<b>醫療 Medical</b> 	<b>測量儀器 Measuring instrument</b> 
<b>汽車及電子 Automotive &amp; Electronics</b> 	<b>刀具 Tool</b> 

## 剛性更高 Higher Rigidity

- 加強了主軸側刀座及進給軸滑板導引之剛性度，確保不受切削負荷之變化而影響加工精度。
- 根據熱物理學原理，主/副主軸頭及X軸(X1、X2)採水平配置，可將熱變形程度降至最小。
- Increase rigidity of main spindle's tool posts and feed axis sliding guide without affecting tooling accuracy, even for variable load cutting.
- Based on thermal physics, the main and back headstocks on X axes (X1, X2) are all mounted horizontally, reducing the heat-induced deformation to a minimum.



主軸夾頭用油壓缸 (適用於GO-325/GO-326)  
Hydraulic cylinder for main collet chuck (For GO-325/GO-326)

## Features

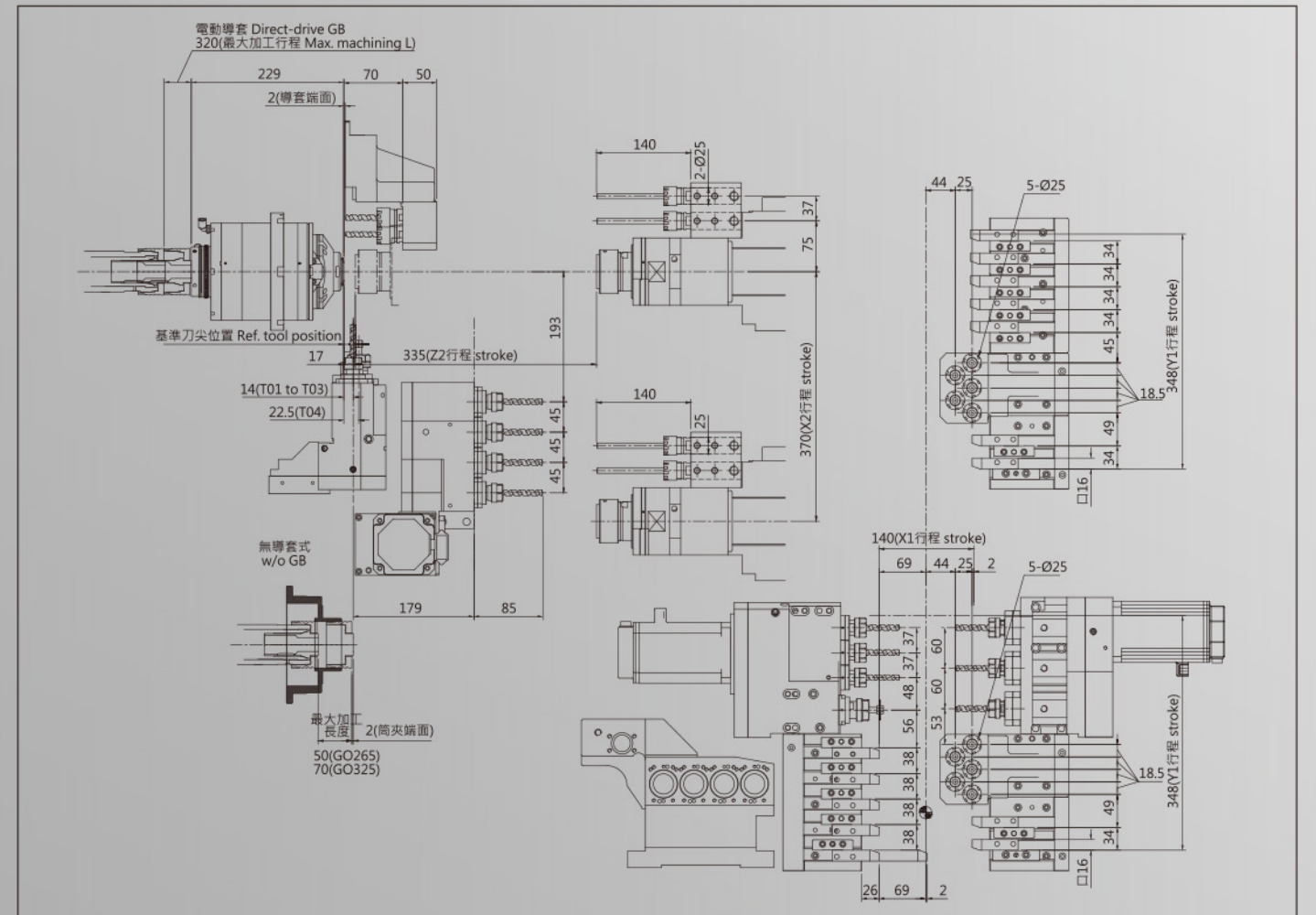
- Built-in main/back spindle motors increase tooling accuracy and the accuracies of the synchronized spindles speed/phase angle.
- Geometrical accuracy, dimensional accuracy and surface roughness are greatly improved with low noise even at high speed if with motor direct-drive rotary guide bushing.
- With separate back tool and X2 axis, machining at the main and back spindle can be performed independently without waiting for each other.
- Upon request for machining and choose suitable guide bush modes.  
Fixed guide bushing / Rotary guide bushing / Guide bush-less kit  
Ground bar is not required if guide bush-less mode and reducing remaining bar length.
- Direct C-axis indexing can reduce spindle indexing time and avoid returning to reference point when indexing is done.
- Thread whirling head or hobbing head can be mounted on right cross tool post for processing bone screw or gear...etc.
- Large chip tray.
- GO-325/GO-326 main spindle uses hydraulic cylinder for bar clamping for avoiding bar shrinkage during processing.

## FANUC NC規格 FANUC NC Specifications

項目	ITEM	GO-265 GO-266	GO-325 GO-326
控制器	Controller	FANUC Oi-TF 系列 Version	
控制軸數	No. of controlled axes	7 (X1, Y1, Z1, C1, X2, Z2, C2) 8 (X1, Y1, Z1, C1, X2, Y2, Z2, C2)	
主軸同步 (S1, S2)	Spindle synchronization (S1, S2)	S1- S2 (Main spindle -Back spindle) 正主軸-副主軸	
控制軸同步	Z1, Z2-axis synchronization	Yes 有	
控制軸同動	Simultaneously controlled axes	Max. 4 axes / path (最多4軸 / 每一路徑)	
最小輸入增量	Min. input increment	0.001mm (Diometrical designation for X1, X2 axes X1, X2直徑指令)	
最小指令增量	Min. command increment	0.0005 mm for X1, X2 axes , 0.001 mm for other axes X1, X2軸: 0.0005 mm, 其他各軸: 0.001 mm	
最大可程式數字	Max. programmable dimension	±8 digits / 位數字	
快速進給速率	Rapid traverse rate	32 m / min (X1, Y1, Y2: 24 m / min) 米 / 分	
主軸 / 進給百分比	Spindle/feed rate override	0 ~150%, 10% increment / 0 ~150%, 10%增量	
絕對 / 增量指令	Absolute/incremental command	X, Z, Y, C: Absolute 絕對 U, W, V, H: Incremental 增量	
刀具補正組數	Tool offset pairs	±6 digits 200 pairs / ±6位數字 200組	
顯示器	Display unit	10.4"color LCD / 10.4"彩色液晶顯示	
語言顯示	Display language	Chinese, English (standard) 中、英文 (標準)※	
程式記憶容量	Part program storage length	2 megabytes 百萬位元 (S1+S2)	
記憶卡輸入 / 輸出介面	Memory card I/O interface	Yes 有	
RS-232C 介面	RS-232C interface RS-232C	Yes 有	
剛性攻牙 (主軸、副主軸、側面刀轉軸、背面刀轉軸)	Rigid tapping (Main/back spindle, cross tool spindle, back tool spindle)	Yes 有	
切斷檢出 (差速型)	Cut-off detection (Speed differential type)	Yes 有	
刀具壽命計數器	Tool life counter	Yes 有	
刀轉軸負載監視	Tool spindle load monitor	Yes 有	

※亦支援其他語言顯示 Also supporting other language displays.

## 切削區域 Tooling zone



# 機器規格 Machine Specifications

機型	MODEL	GO-265 GO-266	GO-325 GO-326
<b>加工最大能力 Machining capacity</b>			
正面主軸 Main spindle	棒材徑 Bar stock diameter	ø8-26 mm	ø8-32 mm
	加工長度 Machining length	320 mm (Motor direct-drive rotary guide bushing 馬達直驅式旋轉導套) 115 mm (Mechanical-drive rotary guide bushing 機械式旋轉導套) 50 mm (GO-265 & GO-266) / 70 mm (GO-325 / GO-326) (Guide bush-less 無導套) 450 mm (Fixed guide bushing 固定式導套)	
	鑽孔 Drilling	ø12 mm	
	攻牙 Tapping	M10	
	深鑽孔 Deep hole drilling	ø10 mm	
背面主軸 Back spindle	工作物夾持外徑 Working chuck diameter	ø26 mm / 32 mm	
	鑽孔 Drilling	ø10 mm	
	攻牙 Tapping	M8	
刀具轉軸 Tool spindle	鑽孔 / 攻牙 (左邊側面刀) Drilling/tapping (Left cross tool)	ø8mm / M6	
	鑽孔 / 攻牙 (右邊側面刀) Drilling/tapping (Right cross tool)	ø8 mm / M6	
	鑽孔 / 攻牙 (背面刀) Drilling/tapping (Back tool)	ø8 mm / M6	
	圓鋸片 Slitting saw	ø45 mm (Right cross tool T04 右側面刀 T04)	
<b>最高轉速 Max. speed</b>			
正面主軸 Main spindle		10,000 rpm	8,000 rpm
背面主軸 Back spindle		10,000 rpm	8,000 rpm
電動導套 Direct-drive guide bushing		10,000 rpm	8,000 rpm
刀具轉軸 Tool spindle		5,000 rpm	
<b>刀具尺寸 Tool size</b>			
外徑刀柄 OD tool shank		16 x 16 x 100 mm	
鑽孔刀柄 (正 / 背面共用內徑刀座或背面刀座用) Boring tool shank (For face/back ID tool or back tool post)		ø25 mm	
左側面刀夾頭 Chuck for left cross tool		ER16 x 3 : ER20 x 1	
右側面刀夾頭 Chuck for right cross tool		ER16	
背面動力夾頭 Chuck for back live tool		ER16	
背面固定刀夾頭 Chuck for back fixed tool		ER16	
深孔鑽夾頭 Chuck for deep hole drill		ER16	
標準刀位數 (最大可裝刀具數) Standard tool position No. (Max. mountable tool No.)		27 (32)	31 (36)
左側外徑車刀位數 Left OD turn tool post		5	
右側外徑車刀位數 Right OD turn tool post		2	
正/背面一體式內徑刀位數 Front/back ID tool post (One body)		5 (Opt. 選配: 10)	
背面刀位數 Back tool post		4 (GO-265 / 325)	
		8 (GO-266 / 326)	
左側動力刀位數 Left cross drive tool post		4	
右側動力刀位數 Right cross drive tool post		3	
正面深孔鑽刀位數 Deep face drill		2	
<b>馬達 Motor</b>			
正面主軸 Main spindle		3.7 / 7.5 KW (額定Rated / 10%)	
背面主軸 Back spindle		2.2 / 3.7 KW (額定Rated / 10分 min.)	
左側動力刀 Left cross drive tool		1.0 KW	
右側動力刀 Right cross drive tool		1.0 KW	
背面刀 Back tool		1.0 KW	
馬達直驅式旋轉導套 Motor direct-drive rotary guide bushing		2.2 / 3.7 KW (額定Rated / 10分 min.)	
X1, Y1, Z1, X2, Z2 軸 X1, Y1, Z1, X2, Z2 axes		0.75KW	
Y2軸 Y2 axes		0.5 KW	
冷卻泵 Coolant pump		0.75 KW	
潤滑泵 Lubricating pump		0.011 KW	
油壓泵 ※ 1 Hydraulic pump ※ 1		None(無)	0.75 KW
<b>Axis 軸行程 Axis travel</b>			
X1 X1		142 mm	
Y1 Y1		348 mm	
Z1 Z1		320 mm ( Motor direct-drive rotary guide bushing 馬達直驅式旋轉導套)	
X2 X2		370 mm	
Z2 Z2		335 mm	
Y2 Y2		68 mm	
<b>其他 Others</b>			
重量 Weight		3,600 kg	
設備功率 (容量) ※ 2 Rated power (Capacity) ※ 2		15.36 kW( 21.4 kVA)	16.11 KW( 22.5 kVA)
壓縮空氣要求 Compressed air requirement		≥ 4 kg / cm2	
壓縮空氣消耗量 Air consumption		≥ 100 NL / min	
冷卻液箱容量 Coolant tank capacity		180 L	
機器尺寸 (寬x深x高) Machine dimensions (W x D x H)		2,150 x 1,280 x 1,930mm	

※ 1 : GO-325/326 採用油壓缸以夾緊加工棒材。GO-325/326 uses hydraulic cylinder for clamping the bar to be machined.  
 ※ 2 : 所需電源容量至少為 19.6 / 20.6 kVA (GO265 / 325)。供機器本身及周邊設備用(送料機、排屑機、油霧分離器等)以 2 kVA 計。  
 The required power source should be ≥ 19.6 / 20.6 kVA (GO-265 / 325), including extra 2 kVA for bar feeder, chip conveyor and oil mist separator.  
 ※ 3 : 本公司享有規格變更之權利，恕不另行通知。All specification are subject to change without notice in advance.

## 標準配件

- 安全門開關
- 冷卻液流量開關
- 主軸冷卻裝置
- 工件輸送帶
- 標準工具
- 滑板固定具 (搬運時用)
- 背面主軸噴氣
- 冷卻液泵浦 (1 HP)
- 機內工作燈
- 手輪
- 三層警示燈組
- 自動斷電
- 送料機介面
- 主軸分度煞車裝置
- 副主軸分度煞車裝置
- 無導套式加工配備

## 工件排出

- 由背面主軸前方排出裝置
- 由背面主軸後方排出裝置

## 選擇配件

### 導套系統

- 馬達直接驅動式旋轉導套
- 機械式旋轉導套
- 固定式導套座

### 右邊側面刀座用刀具

- 刀具轉軸
- 增速刀具轉軸
- 雙面刀轉軸
- 雙面鑽斜孔座 (角度可調整)
- 旋風刀頭
- 滾齒刀頭

### 背面刀座用刀具

- 刀具轉軸
- 增速刀具轉軸
- 固定刀轉換座
- 背加工側銑座

### 冷卻系統

- 高壓冷卻液泵浦

### 油霧回收機

### 排屑機及切屑車

### 異形棒材用主軸筒夾滑套

### 異形棒材用背主軸筒夾滑套

### 小孔徑主軸套管 (棒材減震用)

### 固定式內徑刀座用鑽夾座

- 單頭鑽夾座
- 雙頭鑽夾座

### 安全及其他

- 自動滅火器

## Standard Accessories

- Door interlock
- Coolant flow switch
- Spindle cooling unit
- Work conveyor
- Standard tools
- Slide fixing blocks (For transit)
- Back spindle air purge
- Coolant pump (1 HP)
- Internal work light
- Manual pulse generator
- 3-tiered warning lamp set
- Automatic power shut-off
- Bar feeder interface
- Main spindle brake for indexing
- Back spindle brake for indexing
- Guide bushing-less kit

### Work discharge system

- Front discharge from back spindle
- Rear discharge from back spindle

## Optional Accessories

### Guide bushing system

- Motor direct-drive rotary guide bushing
- Mechanical-drive rotary guide bushing
- Fixed guide bushing holder

### Tools for right cross tool post

- Tool spindle
- Multiplied tool spindle
- Double face tool spindle
- Double face bevel drilling head (Adjustable angle)
- Thread whirling head
- Hobbing head

### Tools for back tool post

- Tool spindle
- Multiplied tool spindle
- Adaptor for fixed tool
- Back cross tool spindle

### Coolant system

- High pressure coolant pump

### Oil mist collector

### Chip conveyor and chip cart

### Main spindle collet sleeve (For non-rounded bar machining)

### Back spindle collet sleeve (For non-rounded bar machining)

### Small bore spindle sleeve (For reducing bar vibration)

### Drill collet holders for fixed ID tool post

- Single-face drill collet holder
- Double-face drill collet holder

### Safety and others

- Automatic fire extinguisher

