

**GOING**  
高懿精機

8 (495) 968-85-85  
[cnc-going.ru](http://cnc-going.ru)

源自臺灣 • 德國技術  
FROM TAIWAN • GERMAN TECHNOLOGY

钻攻雕刻 无所不能

Roughnecks engraving and milling omnipotent

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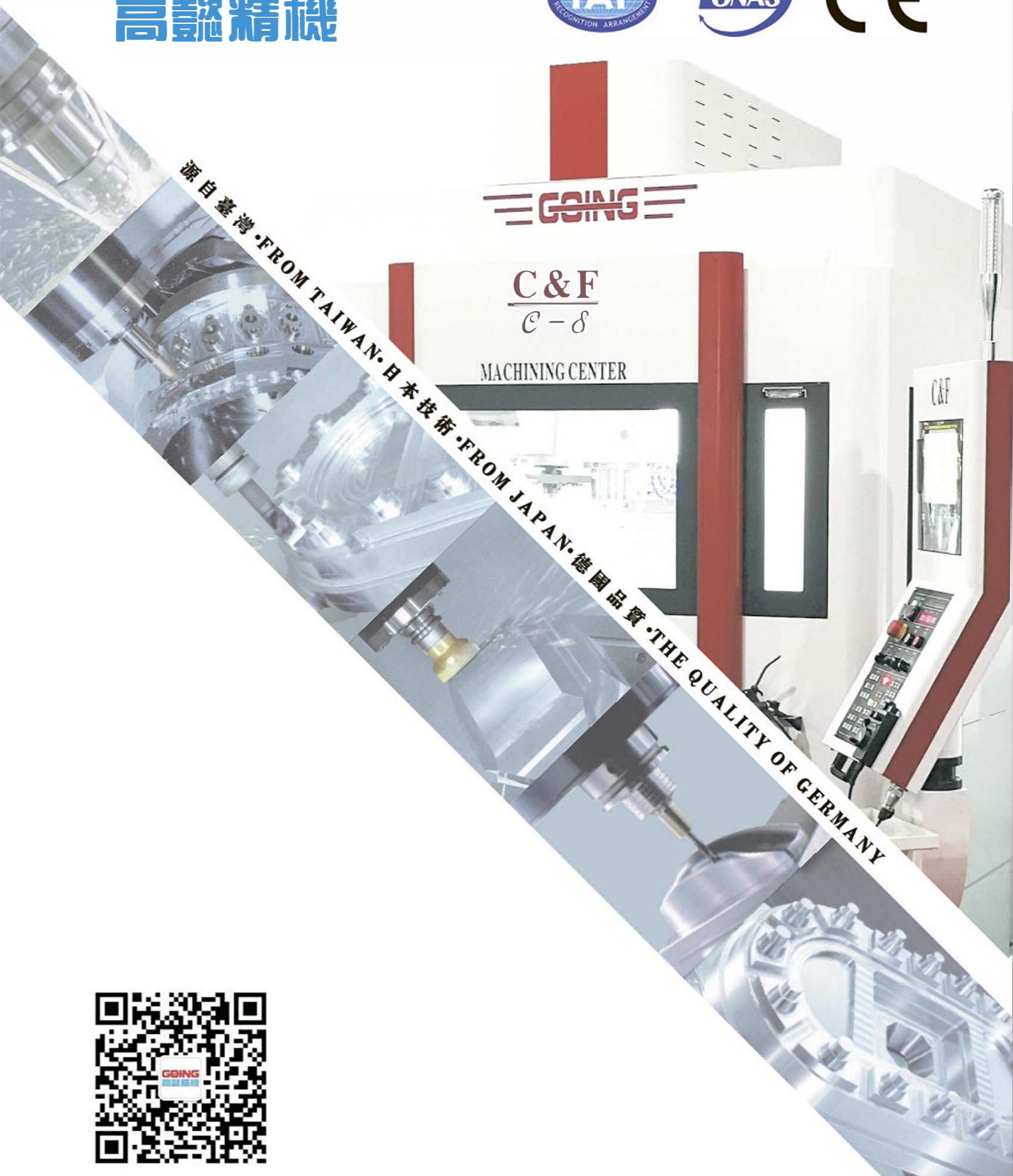
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高懿精機

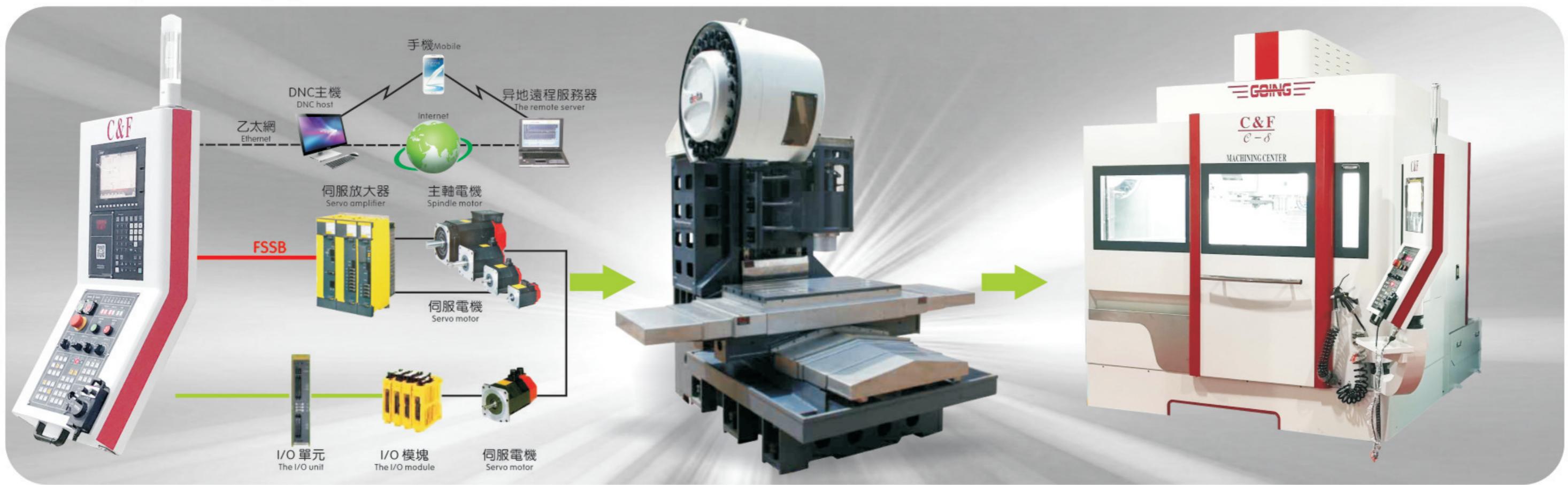


CE



# 控制系統與機械融為一體

The control system with high precision



## 提供專業的技術產品與整體解決方案

Provide technical products and professional solutions



石墨加工機 G-600  
Graphite Processor G-600

X軸 Axis: 600(mm)  
Y軸 Axis: 500(mm)  
Z軸 Axis: 250(mm)

立式加工機 GY-1100  
Vertical Machining GY-1100

X軸 Axis: 1100(mm)  
Y軸 Axis: 600(mm)  
Z軸 Axis: 600(mm)

五軸加工機 CF-400  
Five-axis Processing Machine CF-400

X軸 Axis: 1100(mm)  
Y軸 Axis: 500(mm)  
Z軸 Axis: 600(mm)

複合加工機 CF-500  
Compound Machine CF - 500

X軸 Axis: 1100(mm)  
Y軸 Axis: Z2臥頭Lying head 450(mm)  
Z1臥頭Lying head 600(mm)  
Z軸 Axis: Z2臥頭Lying head 600(mm)

臥式加工機  
Horizontal Processing Machine

X軸 Axis: 1100(mm)  
Y軸 Axis: 800(mm)  
Z軸 Axis: 1100(mm)



### The unique mechanical structure

精心設計的機械結構高剛性、長期穩定性

1、主要機械結構體完全采用高級米漢納鑄造製成，

經壓力消除、再配合合理化的肋骨強化設計、無機體變形之虞。

2、立柱底部加寬設計，配合箱型結構，於高速切削時展現最佳穩定性。

3、三軸配置精密線性滑軌，進給速度快，動作穩定

4、導軌跨距寬闊，提升機械穩定性

Careful design of the mechanical structure of high rigidity, long term stability

1. The main mechanical structure completely Meehanite casting made by pressure Elimination, coupled with rationalization of rib reinforced design, no deformation of the body of risk.

2. The bottom of the column widening design, with box-type structure, of the time of high-speed cutting exhibition Now the best stability.

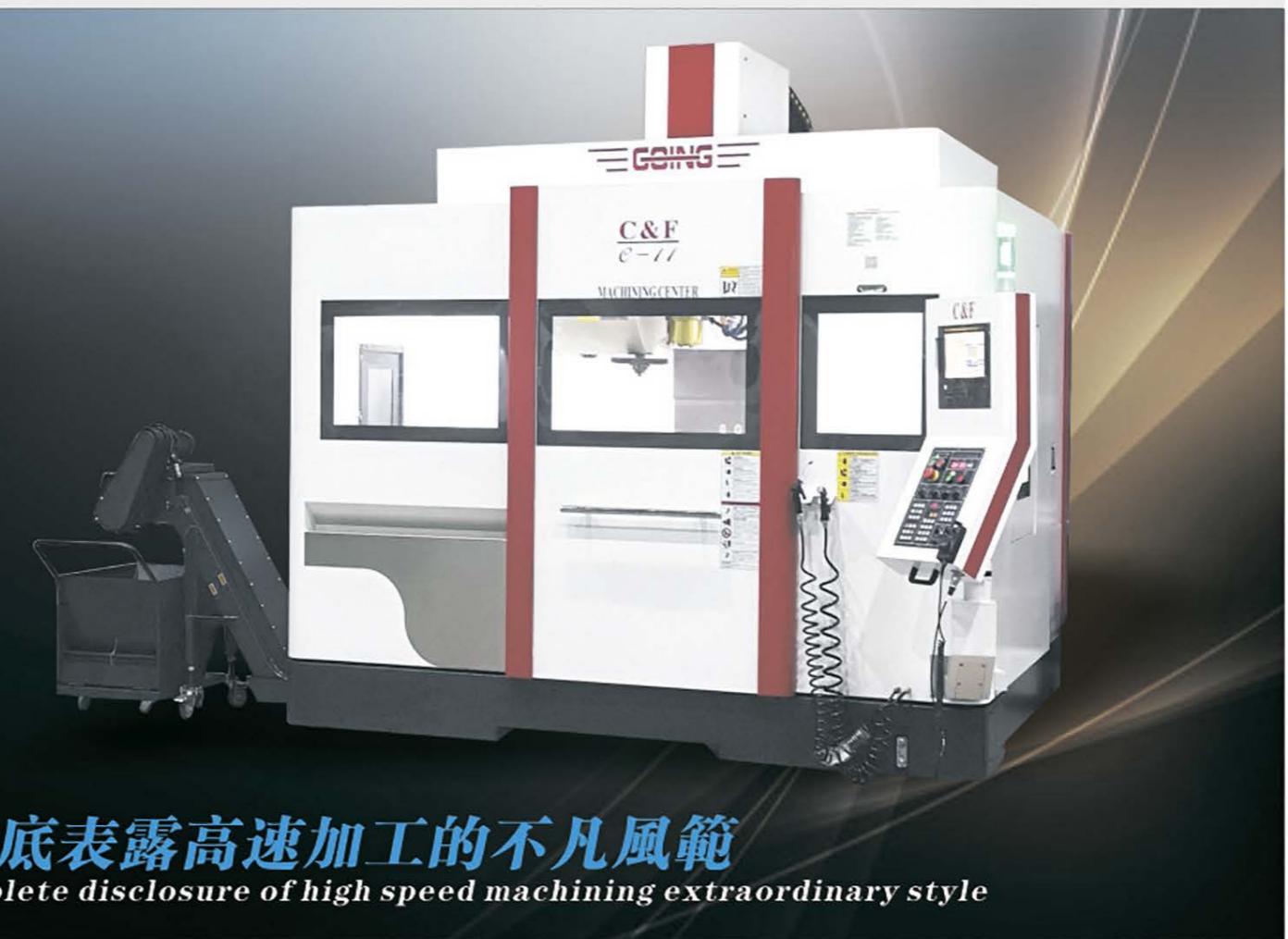
3. Tridial configuration precision linear rails, feed speed, stable operation

4. Line railspan wide, enhance the mechanical stability



Milling 攻Attack 雕Craving 錄Driling

**钻攻雕铣 无所不能**  
Roughnecks engraving and milling omnipotent



# 高性能控制系統

## High Performance Control System



FANUC系統 FANUC system

### 速度控制性的移送前進控制機能標準配置

Speed controlled transfer forward control function standard configuration

### 機械上的跟隨誤差在設定點輸出前進性補償後，提升輪廓的精準度。

After the mechanical following error is compensated at the set point, the precision of the contour is improved.

#### 強大的數控機床控制平臺

Powerful CNC machine control platform

簡單的互動編程方式  
Simple interactive programming

編程時不需要其他文檔  
No additional documentation is required for programming

豐富的循環  
Rich cycle

加工前仿真，確保高可靠性，高效率的刀具管理  
Pre-machining simulation ensures high reliability and high efficiency tool management

#### 檢驗和優化機床精度

Check and optimize machine tool accuracy

五軸加工  
Five-axis machining

刀尖導向，控制擺動銑頭和回轉工作臺  
Tip guide, controls swing milling head and rotary table

#### 高速、高可靠性和高精度加工輪廓

High speed, high reliability and high precision machining profile

動態高精  
Dynamic and high precision

優化刀具運動軌迹  
Optimize tool trajectory

加工和測量3D輪廓  
Process and measure 3D profiles

#### 刀具測量

Tool measuring

在機床上直接測量刀具長度、半徑及磨損量  
The tool length, radius and wear are measured directly on the machine



# 人機工程學的完美體現

The perfect embodiment of ergonomics



# 立臥複合加工機

Vertical and horizontal composite processing machine

## 高精密加工 精益求精

High precision machining keeps improving

## 航空航天、汽車、醫療、能源、交通建設、農業、模具、3C產業

Aerospace, automotive, medical, energy, transportation construction, agriculture, mold, 3C industry



X軸 Axis: 1100(mm)

Y軸 Axis: Z2臥頭Lying head 450(mm)

Z1立頭Set head 600(mm)

Z軸 Axis: Z2臥頭Lying head 600(mm)

工作臺 Workbench 500 / 630(mm)

## 嚴格檢驗 性能保證

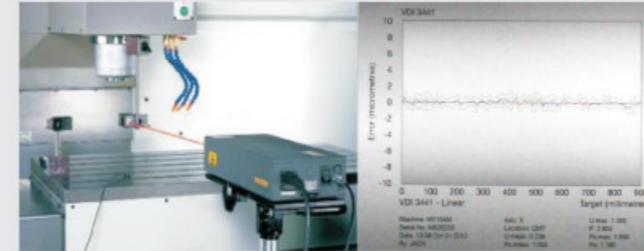
Strictly check the performance guarantee

### 激光鑑射檢驗

Laser inspection

### 定位精度

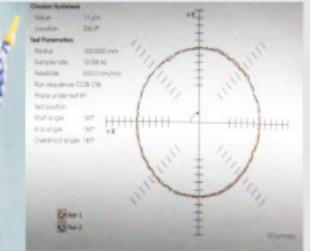
=1.180 μ m VDI3441  
Positioning accuracy=1.180 μ m VDI3441  
follows the circle examination precisely  
actual value 0.005mm Φ150mm



### 循圓檢測

Based on circle detection  
精密循圓檢測實測值  
0.005mm Φ150mm  
follows the circle examination precisely  
actual value 0.005mm Φ150mm

循圓量測 進給:  
500mm/min,Value:1.1 μ m  
Roundness measurement Feed:  
500mm/min,Value:1.1 μ m



## 嚴格把關每個細節

Keep a close eye on every detail

### 品質與精度 The quality and the precision

#### 確保精度（人工鏟花）

To ensure the accuracy of (Artificial scraping)



#### 滑軌與螺杆（同心與平行度）

Slides and screw (concentric and parallel)



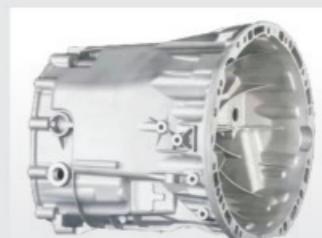
#### 滑軌與螺杆（真直度與平面度）

Slides and screw (straightness and flatness)



## 追求效率及加工品質是致勝的關鍵

The pursuit of efficiency and the processing quality is the key to success



## 精密零件、模具、3C零件加工致勝利器

Precision parts, mould parts processing, 3C edge tool



## 高精、高速、高效的完美體現

The perfect embodiment of high precision, high speed, high efficiency



## 追求效率及加工品質是致勝的關鍵

The pursuit of efficiency and the processing quality is the key to success





## 頂級的裝備

The top of the equipment



**刀具檢測（選配）**  
對加工時刀具損耗的檢測  
(確保工件精度)  
The tool detection(optional)  
The detection of tool wear during machining  
(to ensure the accuracy of the workpiece)

## 成套技術方案

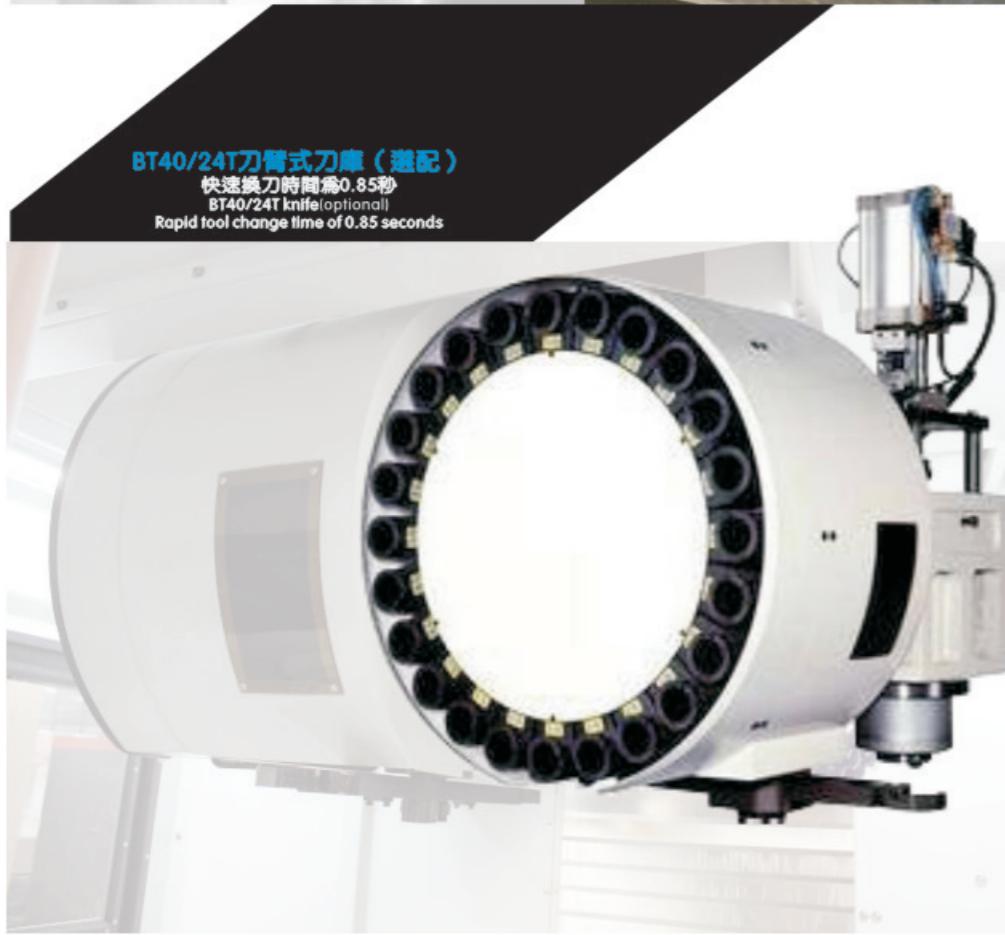
Complete technical scheme



懸臂五軸  
Cantilever five-axis



旋轉主軸頭  
Rotating spindle head



**BT40/24T刀臂式刀庫（選配）**  
快速換刀時間為0.85秒  
BT40/24T knife(optional)  
Rapid tool change time of 0.85 seconds



**ATC自動門（選配）**  
刀庫及刀具在加工時產生水霧、油霧、  
碎屑的防護  
ATC automatic doors(optional)  
Protection of water mist, oil mist, the knife and tool  
fragments produced in the process.

## 自動化解決方案

Automation solution



桁架式機械手  
Truss manipulator



自動化機械手  
Automatic manipulator



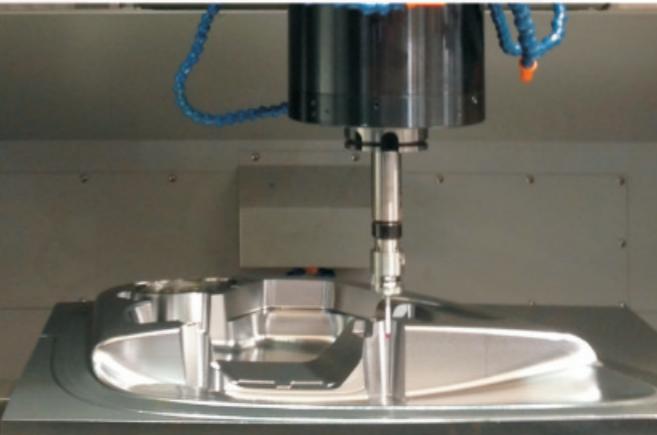
地軌式機械手  
Earth-rail manipulator

# 高性能的選配件

Parts selected high performance

## FANUC控制系統

The FANUC control system



## 工件在線檢測裝置

檢測裝夾及工件精度  
The online detection device  
The detection and accuracy of the workpiece clamping



## 機器人

實現機械加工自動化  
the robot  
To realize automatic machining



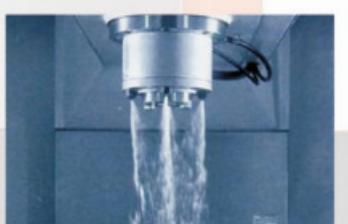
## 油霧收集器

對加工時產生的水霧、油霧有效的收集，  
確保加工時監視畫面  
Oil mist collector  
The processing of water mist, oil mist effective collection,  
To ensure that the processing of the monitor screen



## 可調角度刀頭

適用於側位加工的選擇  
Adjustable cutter head  
Suitable for lateral processing options



## 中心出水

需要深孔加工時有利排屑  
Center of water  
Need for deep hole processing  
good chip removal



## 環狀出水

曲面加工時，有利排屑  
Cyclic water  
During the machining of curved surface,  
good chip removal



## 後衝屑及左右衝屑裝置

在加工時對碎屑的有效清理  
after the chip and flushing device  
In the processing of debris effectively.

## GY 系列立加參數表

GY series vertical addition parameter table

規格/機型	Specification/Model	單位 Unit	GY-600	GY-800	GY-1000	GY-1100	GY-1200	GY-1300	GY-1380	GY-1500
加工範圍 Processing range	X 軸行程 X-axis stroke	mm	650	800	1000	1100	1200	1300	1300	1500
	Y 軸行程 Y-axis stroke	mm	500	500	600	600	700	700	800	800
	Z 軸行程 Z-axis travel	mm	500	500	600	600	600	700	700	700
工作臺規格 Table specification	主軸鼻端至工作臺面距離 Distance from the nose of main shaft to table work surface	mm	120~620	150~650	120~720	120~720	80~680	120~820	185~885	185~885
	主軸中心至立柱軌道面距離 Distance from spindle center to column track surface	mm	550	550	650	650	785	750	855	865
	工作臺尺寸 (X軸方向) Table size (X-axis direction)	mm	800	1000	1200	1200	1360	1400	1400	1600
工作臺尺寸 (Y軸方向) Table size (Y-axis direction)	工作臺T型槽尺寸 Table T-slot dimensions	mm	500	500	600	600	700	700	800	800
	工作臺最大承重 Maximum load bearing of table	kg	400	500	800	800	1000	1200	1300	1500
	主軸轉速 Spindle speed	rpm	10000	10000	10000	10000	10000	10000	6000/8000	6000/8000
主軸規格 Main specifications	主軸電機功率 Spindle motor power	kw	11	11	11	11	11	11	15	15
	主軸規格 Main specifications	/	BT40/BBT40	BT40/BBT40	BT40/BBT40	BT40/BBT40	BT40/BBT40	BT40/BT50	BT40/BT50	BT40/BT50
	傳動方式 The transmission way	/	皮帶式/直聯式 belt type/Direct type							
進給 Feed	X, Y, Z軸快速進給 X, Y, Z axis fast feed	m/min	48/48/48	48/48/48	36/36/36	36/36/36	24/24/24	30/30/30	30/30/30	30/30/30
	切削進給 A cutting feed	mm/min	1~10000	1~10000	1~10000	1~10000	1~10000	1~10000	1~10000	1~10000
	X, Y, Z軸電機規格 X, Y, Z axis motor specifications	kw	2*2*3	2*2*3	3*3*3	3*3*3	3*3*3	4.5*4.5*4.5	3*3*4.5	4.5*4.5*4.5
刀庫 Knife library	刀庫容量 Knife storage capacity	T	BT40/24T	BT40/24T	BT40/24T	BT40/24T	BT40/24T	BT40/BT50~24T	BT40/BT50~24T	BT40/BT50~24T
	機床尺寸 Machine size	mm	2200*2100*2400	2550*2100*2400	3000*2300*2600	3100*2300*2600	3600*3000*2700	3400*2700*2800	3500*2800*3800	3700*2900*3800
	機床重量 Machine weight	kg	4500	5500	7500	7800	8500	9800	13000	15000

## CF 系列立加參數表

CF series vertical addition parameter table

規格/機型	Specification/Model	單位 Unit	C-6	C-8	C-855	C-10	C-11	C-165	C-13
加工範圍 Processing range	X 軸行程 X-axis stroke	mm	650	800	820	1000	1100	1100	1300
	Y 軸行程 Y-axis stroke	mm	450	520	550	580	620	650	700
	Z 軸行程 Z-axis travel	mm	450	560	600	700	600	700	700
工作臺規格 Table specification	主軸鼻端至工作臺面距離 Distance from the nose of main shaft to table work surface	mm	150~600	160~720	120~720	110~810	120~720	50~750	120~720
	工作臺尺寸 (X軸方向) Table size (X-axis direction)	mm	760	920	1000	1160	1240	1250	1350
	工作臺尺寸 (Y軸方向) Table size (Y-axis direction)	mm	450	500	500	580	610	600	700
主軸規格 Main specifications	工作臺T型槽尺寸 Table T-slot dimensions	mm	18*100*4	18*110*5	5*18*100	18*110*5	18*100*6	5*18*115	18*100*6
	工作臺最大承重 Maximum load bearing of table	kg	500	600	500	700	800	850	10000
	主軸轉速 Spindle speed	rpm	10000	10000	10000	10000	10000	10000	10000
進給 Feed	主軸電機功率 Spindle motor power	kw	11	11	11	11	11	11	11
	主軸規格 Main specifications	/	BT40/BBT40						
	傳動方式 The transmission way	/	皮帶式/直聯式 belt type/Direct type						
精準 Precision	X, Y, Z軸快速進給 X, Y, Z axis fast feed	m/min	48/48/48	48/48/48	48/48/48	36/36/36	36/36/36	36/36/36	36/36/36
	切削進給 A cutting feed	mm/min	1~12	1~12	1~12	1~12	1~12	1~12	1~12
	X, Y, Z軸電機規格 X, Y, Z axis motor specifications	kw	2*2*2	2*2*3	2*2*3	2*2*3	3*3*3	3*3*3	3*3*4.5
需求 Demand	定位精度 Positioning accuracy	mm	± 0.005	± 0.005	± 0.005	± 0.005	± 0.005	± 0.005	± 0.005
	重複精度 Repeat accuracy	mm	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003
	電力需求 Demand for electricity	mm	15	20	20	25	30	35	35
需求 Demand	壓力需求 Pressure requirements	kg/cm	6~8	6~8	6~8	6~8	6~8	6~8	6~8
	機床尺寸 Machine size	mm	2200*2500*2300	2400*2170*2500	2700*2300*2640	2600*2200*2600	2900*2240*2700	3900*2400*3000	3000*2300*2800
	機床重量 Machine weight	kg	5000	6500	6800	7500	8500	9000	13000

## 標準配件

Standard accessories

FANUC系統 FANUC system	後衝屑裝置 Rear chip flushing device
BT40皮帶式主軸 BT40 belt type main shaft	LED工作燈 The LED working light
24T刀臂式刀庫 24T knife arm type knife library	LED報警燈 The LED lamp
主軸油冷機 Spindle oil cooler	基礎螺絲腳墊 Base screw footmat
電箱恒溫裝置 Electric box thermostat	操作說明書 Operation manual
手持式手錶 Hand wheel	基體工具箱 Basic toolbox
主軸環噴裝置 Main shaft ring jet unit	後衝屑裝置 Rear chip flushing device

## 選配置

Choose the configuration

三菱/西門子/海德漢系統 Mitsubishi/Siemens/Heldham Systems	油水分離器 Oil-water separator




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