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*A Specialized Manufacturer of Deep Hole Drilling Machine*

深孔加工機械專業製造廠



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鋒鑽機械股份有限公司

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A Specialized Manufacturer of Deep Hole  
Drilling Machine



CNC 深孔加工機  
CNC Deep Hole Drilling Machine

ASCENDER MACHINERY INC.



# TG series CNC Deep Hole Drilling Machine

## CNC 深孔加工機

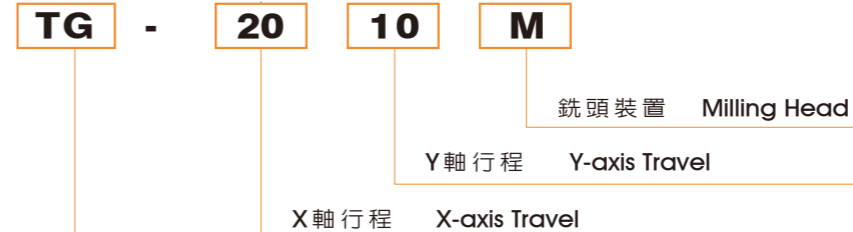
- 高效率三軸定位槍鑽深孔加工機
- 適合於偏心孔加工之應用
- 模具、平板、塊狀工件適用
- High efficiency three-axis positioning gun drilling machine.
- Suitable for eccentric hole machining.
- Applicable for molds, platens and blocks machining.



銑頭裝置  
Milling head

### 選購配件/ Optional Accessories :

銑頭 MILLING HEAD			W軸進給 W-AXIS FEED		
主軸錐度 Spindle Taper	BT-40		W軸馬達 W-axis Motor	AC servo 3.5kw	
主軸馬達 Spindle Motor	11kw				



TG 槍鑽系列 - 三軸位移孔加工  
TG Gun Drilling Series-Three Axes Feed Machining

TG-2010



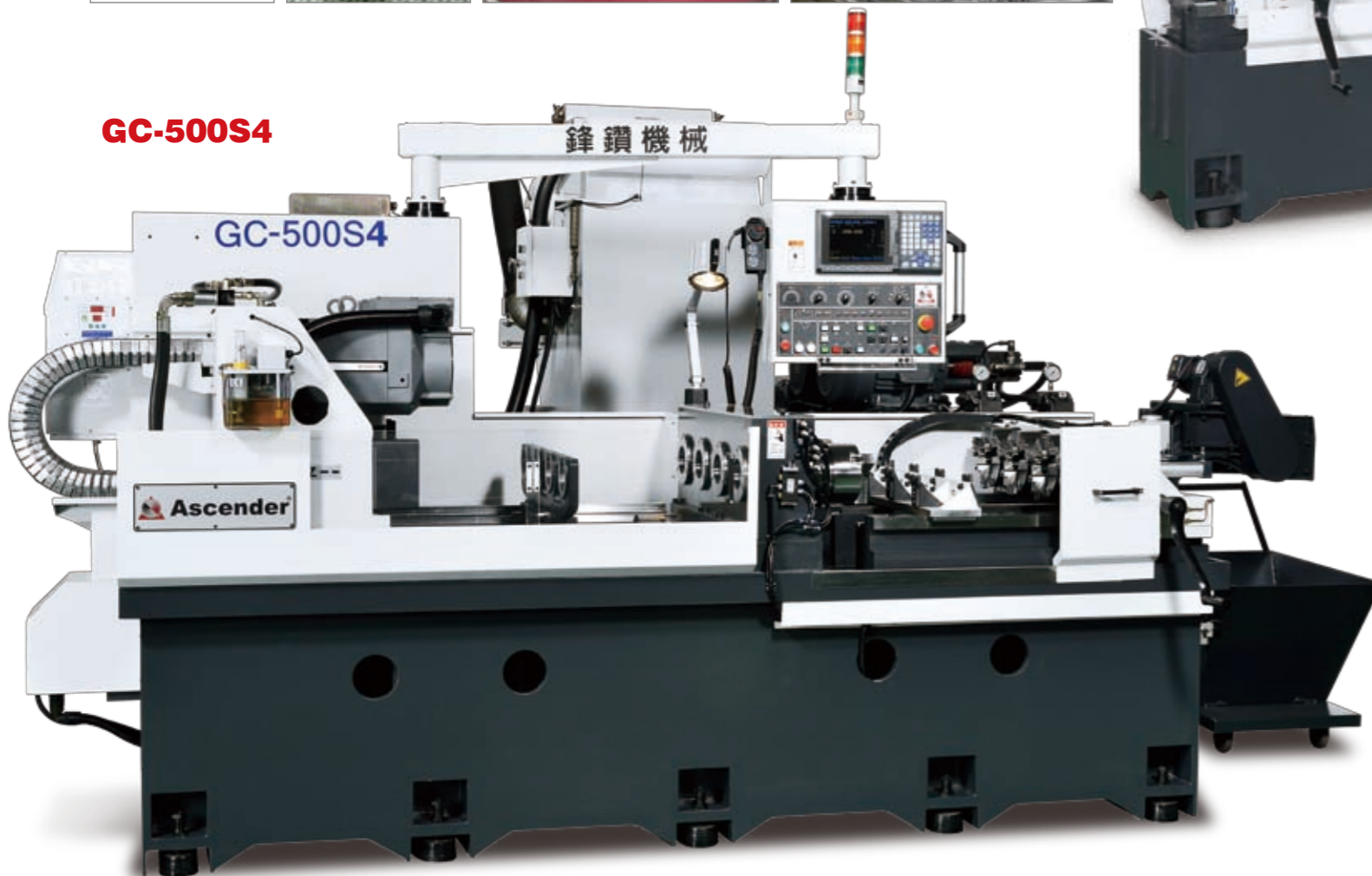
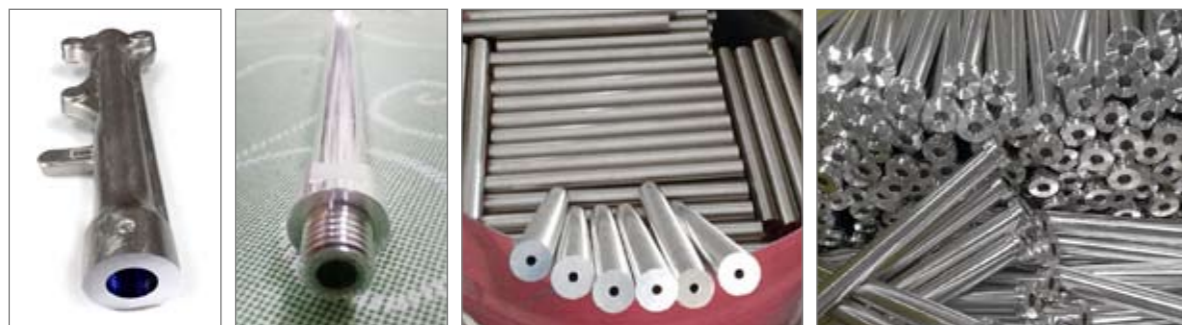
### SPECIFICATION

Model	TG-1000	TG-1500	TG-2010	TG-2015	TG-2510	TG-2515			
加工孔徑 Drilling dia.	ø3~30 mm (opt. ø4~40 mm)								
加工深度 Drilling depth.	1,000 mm		1,500 mm (opt. 2,000 mm)						
工作台面積 Working table size (mm)	1,200x1,000	1,700x1,000	2,200x1,500		2,700x1,500				
工作台承載能力 Table loading capacity	8,000 kg		15,000 kg						
T形槽溝 T-shape slot	18 x 6 x 160 mm		22 x 8 x 180 mm						
X 軸行程 X - axis travel	1,000 mm	1,500 mm	2,000 mm		2,500 mm				
Y 軸行程 Y - axis travel	800 mm		1,000 mm	1,500 mm	1,000 mm	1,500 mm			
Z 軸行程 Z - axis travel	1,650 mm		2,200 mm (opt. 2,800 mm)						
控制器 Controller	MITSUBISHI / FANUC								
主軸轉速 Spindle speed	10~8,000 rpm								
主軸馬達 Spindle motor	7.5 kW								
X/Y/Z 軸馬達 X / Y / Z - axis motor	4.5 / 3.5 / 2 kW		7 / 4.5 / 2 kW						
快速進給 Rapid traverse rate	X, Y - axis 6,000 mm/min , Z-axis 10,000 mm/min								
切削油箱容量 Coolant tank capacity	1400 L								
高壓切削液馬達 Hi-pressure coolant pump	7.5 HP								
低壓切削液馬達 Low-pressure coolant pump	10 HP								
切削油冷卻機 Cooler capacity	7,500~9,000 kcl/hr								
鼓式紙帶過濾機 Drum type paper filter	200 L/min								
機械重量 New weight	12,000 kgs	14,000 kgs	20,000 kgs	23,000 kgs	25,000 kgs	28,000 kgs			
佔地面積	長 寬 高	Required space	L	5,000	5,500	6,500	6,500	7,000	7,000
			W	4,000	4,000	5,500	5,500	5,500	5,500
			H	2,950	2,950	3,300	3,800	3,300	3,800

- 本公司對產品規格、設計均不斷研究改進，上述規格若有變更，恕不另行通知。
- Design and specification are subject to change without prior notice.

# GC series CNC Deep Hole Drilling Machine CNC 深孔加工機

- 高效率單軸、雙軸、多軸式槍鑽深孔加工機
  - 適合於中心孔加工之應用
  - 適用於模具配件、車輛零件、液壓元件...等各式圓棒類工件加工
  - 另可依客戶工件需求加工條件訂製機械規格
- High efficiency single spindle, double spindles and multiple spindles gun drilling machine.
  - Suitable for center hole machining.
  - Suitable for various cylindrical parts machining, such as mold accessories, automotive parts and hydraulic parts, etc.
  - Custom machine specifications are available to meet specific machining requirements.



GC - 500 S4 D

D: 雙轉 D: Double rotation

S: 單軸 S2: 雙軸 S4: 四軸  
S: Single spindle S2: Double spindles S4: Four spindles

加工深度: 500/1000/1500/2000 mm  
Machining depth: 500/1000/1500/2000 mm

GC 槍鑽系列 - 中心孔加工  
GC Gun Drilling Series - Center Hole Machining



## SPECIFICATION

Model	GC-500S4	GC-1000S2	GC-1000S2D	GC-1500S2	GC-1500S2D	GC-2000S	GC-2000SD
加工孔徑 Drilling dia.	ø3~25 mm	ø3~30 mm (Opt. ø4~40 mm)					
加工深度 Drilling depth	500 mm	1,000 mm	1,500 mm		2,000 mm		
Z 軸行程 Z-axis travel	1,200 mm	1,600 mm	2,200 mm		2,800 mm		
控制系統 Controller	Fanuc / Mitsubishi						
主軸轉速 Spindle speed	10~8,000 rpm						
主軸馬達 Spindle motor	7.5 kw						
Z 軸馬達 Z-axis motor	3.5 kw					2.0 kw	
切削油冷卻機 Cooler capacity	12,500~15,000 kcl/hr					7,500~9,000 kcl/hr	
鼓式紙帶過濾機 Drum type paper filter	360 l/min					200 l/min	

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## Optional Accessories 選購配件:



中心架導套  
STEADY REST GUIDE BUSH

SPECIFICATION:

- $\phi 3 \sim 7.9$  mm with bearing 6202
- $\phi 8 \sim 17.5$  mm with bearing 6205
- $\phi 17.6 \sim 26.5$  mm with bearing 6207
- $\phi 26.6 \sim 40$  mm with bearing 6209



前支撐導套  
FRONT GUIDE BUSH

SPECIFICATION:

- $\phi 3 \sim 5$  mm with bearing 628
- $\phi 5.1 \sim 7.9$  mm with bearing 6202
- $\phi 8 \sim 17.5$  mm with bearing 6205
- $\phi 17.6 \sim 26.5$  mm with bearing 6207
- $\phi 26.6 \sim 40$  mm with bearing 6209

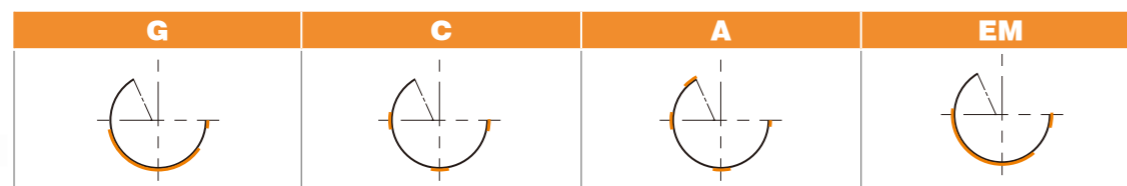


刀導套  
GUIDE BUSH

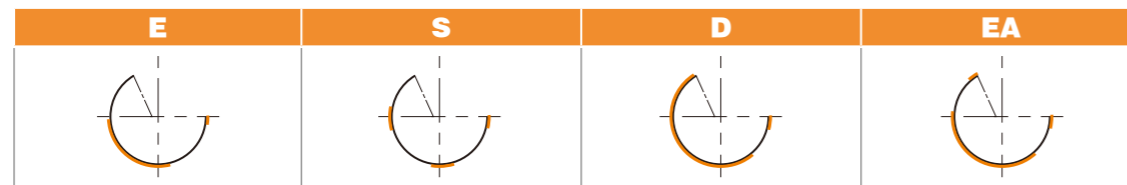
SPECIFICATION:

- $\phi 3 \sim 30$  mm
- $\phi 31 \sim 40$  mm

## Gun Drilling Tool Type 鎗鑽刀具型式:



- |   |  |  |   |
|---|--|--|---|
| <p><b>G</b></p> <ul style="list-style-type: none"> <li>• 適用於所有材料</li> <li>• Suitable for all materials</li> </ul> | <p><b>C</b></p> <ul style="list-style-type: none"> <li>• 不鏽鋼材料</li> <li>• 難加工材料</li> <li>• Stainless steel</li> <li>• Hard-to-cut materials</li> </ul> | <p><b>A</b></p> <ul style="list-style-type: none"> <li>• 鋁</li> <li>• 高尺寸精度場合</li> <li>• Aluminum</li> <li>• High accuracy required</li> </ul> | <p><b>EM</b></p> <ul style="list-style-type: none"> <li>• 鋼、鑄鐵、及軟材料</li> <li>• Steel, cast iron and soft materials</li> </ul> |
|---|--|--|---|



- |   |   |   |  |
|---|---|---|--|
| <p><b>E</b></p> <ul style="list-style-type: none"> <li>• 所有材料和塑料</li> <li>• 推薦用於高速鑽</li> <li>• All materials and plastics</li> <li>• Recommended for high speed drilling</li> </ul> | <p><b>S</b></p> <ul style="list-style-type: none"> <li>• 鋼</li> <li>• 高精度場合</li> <li>• 完好的表面質量</li> <li>• 適合加工短孔</li> <li>• Steel</li> <li>• High accuracy required</li> <li>• Good surface finish</li> <li>• Short hole</li> </ul> | <p><b>D</b></p> <ul style="list-style-type: none"> <li>• 鑄鐵及球墨鑄鐵</li> <li>• 鑄件零件高精度孔場合</li> <li>• Cast iron and ductile iron</li> <li>• High accuracy hole machining for cast iron parts</li> </ul> | <p><b>EA</b></p> <ul style="list-style-type: none"> <li>• 交叉孔加工- 鋼和鋁</li> <li>• 從斜面鑽入及鑽出</li> <li>• Cross-hole machining for steel and aluminum</li> <li>• Bevel surface drilling in and out.</li> </ul> |
|---|---|---|--|

## Drilling Tool Grinder

### 槍鑽磨刀頭



- 底座為選購附件
- Stand is an optional equipment

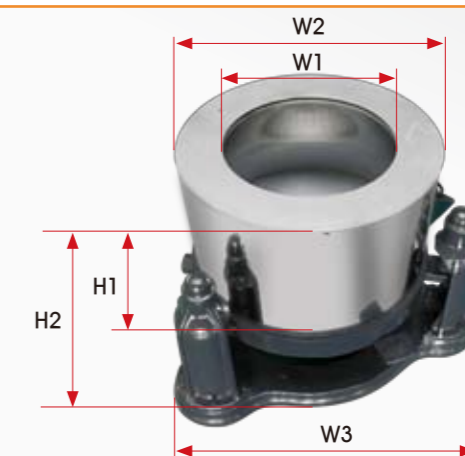


Unit: 60 Hz

鑽頭研磨尺寸	Grinding drill size	$\phi 2 \sim 32$ mm $\phi 6 \sim 45$ mm
電機功率	Motor	0.25 kw
砂輪尺寸	Grinding wheel size	$\phi 125$ mm(5")
砂輪轉速	Grinding wheel speed	3450 rpm
重量	Weight	160 kg
外形尺寸	Machine dimensions	720 x 610 x 880 mm

## De-Oiling Machine

### 脫油機



Model		HP-20	HP-22
寬度 Width	W1	$\phi 410$ mm	$\phi 450$ mm
	W3	$\phi 1100$ mm	$\phi 1170$ mm
馬力 Motor	HP	1 HP	2 HP
	R.P.M	1,000	1,000
容量 Capacity	L	23 L	28 L
皮帶 Belt		A52	A54