



明熠透亮 · 源於精磨

# State Of The Art

Glare through Fine Polishing

鑽石鏡面自動拋光機  
DIAMOND GLARE AUTOMATIC  
POLISHING MACHINE



## 鑽石鏡面自動拋光機

### 1. 擋壓料系統 Processing aligner and pressure beam system



1. 擋料架材質經回火、調質及高精度研磨後，達到高平整度加工面。  
Processing aligner after heat treatment and high precision grinding to ensure aligner surface flatness
2. 擋料架上下垂直作動連結氣壓缸與線性滑軌平行，有效確保工作物進行加工時的平整度。  
Processing aligner motion, direct link air-cylinders with linear guiders parallel up and down to ensure working Pieces flatness during Processing.



3. 獨立汽缸單點式壓料軸心加大至30mm，裝置自潤式軸承加強壓料的強度與穩定性，降低加工小物件時壓面不均所造成的板料推移。壓料汽缸可調整左右前後，以利刀具組傾斜角度加工。  
Independent single air-cylinder pressure beam spindle diameter extra to 30mm, equipped with self-lubricating bearing to ensure air pressure strength and stability without displacement during small pieces processing. The air-cylinders pressure beam can be moved as desired for angle processing.
4. 汽缸頂部增加止滑機構以防止無動作之汽缸出現掉滑現象。  
Air-cylinders add a new mechanism to prevent slipping for non working cylinders.

### 2. 刀具傳動系統 Cutter unit feeding system



1. 刀具組基座採用線性滑軌搭配滾珠螺桿傳動確保往返順暢性及直線度。  
Cutter unit slide moves on liner guider ways and transmitted through ball screw for smoothly and straightness
2. 刀具組吸塵孔於直線集塵槽內，加工時跟隨移動，吸塵效果佳。  
Cutter unit dust hood inside straight collection chute while working.

### 3. 自動注油器 Automatic lubricator 4. 三菱伺服馬達 Mitsubishi servo motor



- 自動注油潤滑系統為可時間控制，0~60分鐘自動注油一次，可預防線性滑軌損壞。  
Automatic lubrication system with timing control, between 0~60 minutes auto lubricate once to prevent liner guiders breakdown.

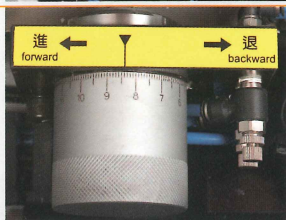


- 日制1KW伺服馬達經聯軸器直接驅動滾珠螺桿，低背隙並且行徑穩定。  
Japan imported 1KW AC servo motor through coupling that directly drives ball screw transmitted with low backlash working and stable movement.

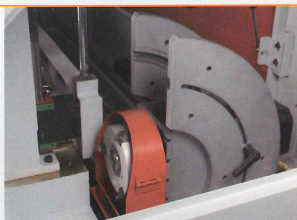
### 5. 拋光刀具座 Polish cutter unit



1. 高轉速內藏式主軸變頻馬達，穩定性高，可避免傳統皮帶式傳動所產生的振動，大幅提昇拋光面更高品質。  
High speed stability motor spindle with inverter to prevent traditional belt vibration upgrading products quality
2. 可傾斜式刀具座採用鍍鉻處理使其表面耐氧化及減少磨耗。  
Angle adjustable cutter unit through chrome processing makes surface resistance to oxidation, reduce wear of mechanism.
3. 針對不同加工角度時，刀具組可調整0~60度角，並有固定插銷以固定整座刀具組。  
For different angle, cutter unit can be adjusted 0~60 degree with bolt to firm it.



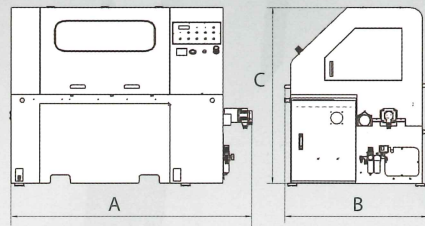
1. 切削深度調整器以0.01mm為單位。  
Cutting depth adjuster unit 0.01mm.



2. 機械側門可開啓，寬敞空間容易更換刀具及刀具組。  
The side of machine with wide space easy to replace cutter bit and cutter unit.

單位 (Unit) : mm

MODEL	A	B	C
CGS-1000	2175	1340	1600
CGS-1300	2475	1340	1600
CGS-1600	2775	1340	1600
CGS-2000	3175	1340	1600
CGS-2500	3675	1340	1600



	型 號 MODEL	CGS-1000	CGS-1300	CGS-1600	CGS-2000	CGS-2500
加工能力 CAPACITY	加工物寬度 Working width	600 mm				
	加工物長度 Working length	1000 mm	1300 mm	1600 mm	2000 mm	2500 mm
	加工物厚度 Working thickness	100mm				
	工作台面尺寸 Table sizes	1000x600 mm	1300x600 mm	1600x600 mm	2000x600 mm	2500x600 mm
主 軸 SPINDLE	主軸轉速 Spindle speed	0~8000 RPM				
	主軸直徑 Spindle diameter	Ø28 mm				
	主軸馬達 Spindle motor	2 HP				
壓樑氣缸 PRESSURE BEAM CYLINDER	數量 Numbers	6 pcs	8 pcs	10 pcs	12 pcs	14 pcs
	使用氣壓 Working air pressure	5 kgf/cm <sup>2</sup>				
其 他 OTHERS	驅動方式 Drive	1KW (AC伺服馬達) , 搭配滾珠螺桿傳動 1 KW (AC servo motor), with ball screw				1KW (AC伺服馬達) ， 搭配鋼索傳動 1KW (AC servo motor) , with cable transmission
	加工速度 Working speed	0~2.0 M/min				
	吸塵罩出口徑 Dust hood outlet dia	Ø4" x 3 holes				
	工作台離地高度 Table height from floor	800 mm				
	淨重 Net weight	1700 kgs	1850 kgs	2000 kgs	2200 kgs	3000 kgs
	使用電源 Power source	380V/220V.50HZ/60HZ				
備 註 Remarks	1. 機身為全罩式鍍金，靜音防塵效果佳。 Machine outlooking with full cover sheet matel prevent dust and nosie while machine working. 2. 操作面板採用簡單易懂圖示，方便操作人員使用。 Control panel with drawing indications, easy operating for learner. 3. 故障碼會以中文顯示確切的故障部位，方便處理故障解除。 Trouble shooting indicates any breakdown for operator easy to find out problems.					



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