

粉末加工再次新進化，渾然天成 的高效率及光澤展現

Evolution For Mirror Finishing Circuits With Powder Resin Device ;
A Unified High Efficiency and Fine Finishing Solutions.

Improved Electrode Wear

電極耗損再降低

20%↓

- 採用雙油箱式油路分離結構(淨油、粉末兩用式)並搭載自動洩油裝置(system)
with automatic drain system to extend a 2-in-1 machine performance.



高效率粉末放電加工機 CNC POWDER EDM

- **對話式**自動編輯功能，僅需輸入電極尺寸、工件材質、深度及面粗度要求，加工程式即可自動編成，且可隨時於加工中更改設定。
Dialogue Automatic Programming Edit Mode just input machining parameters simply i.e. Electrode Size、Material、Work Depth and desired surface finish from roughing to final finishing.
- **獨特**添加粉末液，針對大面積模具，可提高加工穩定，提升效率及大幅改善表面粗細度。
Unique powder-added fluid improves stability and efficiency on large-size workpiece.
- **藉由**粉末加工技術，增加放電時的極間距離，促使排渣容易，放電分離的效應，使放電更穩定，大面積也可以均勻修細緻光澤表面。
By powder-added technology to increase the sparking gap avoiding arcing happened Separated sparking to let stable height speed finishing and attain mirror surface.
- **升降式**油槽門機構(手動式)提昇使用空間便利性。
Manual type hydraulic-lift Tank Door to enhance user's Fixture installment space.
- **業界**最專業獨具匠心的E碼放電系統操作軟體不需撰寫繁複加工程式，可完全取代傳統G、M模式加工。
A Specialist E-code programming edition to lead the user into advanced operation can fully instead of tradition G、M code complex program solutions.
- **搭載新式**多功能選擇放電控制系統與軟硬體搭配ATC(選配)、自製C軸(選配)達成無人全自動或半自動之高產能放電加工。
Innovated Multi Spark Frequency Selection Control System with ATC (opt) and C-axis (opt) to achieve a highly spark productivity on Full-time automation or Half-time automation.
- **可調式**跳躍距離與速度，最快可達1.8米/分鐘。
Adjustable jumping distance and speed, to maximize to 1.8m/min.
- **高自製率**產品，包括機械本體、控制器與軟體，維修簡化更能縮短時間。
High self-productivity included machine body, controller and software to lead quick and easy service.

機械Machine body	A43CP	A53CP	A64CP
工作台(長x寬) Table size (WxD) mm	650x400	650x400	800x500
工作槽(長x寬x高) Work tank size(WxDxH) mm	1100x640x400	1100x640x400	1350x740x450
工作台行程 Table travel(X,Y) mm	400x300	500x350	600x400
主軸伺服行程 Ram travel(Z1) mm	300	350	350
主軸底板至工作台面 Distance from RAM platen to work table mm	320-620	300-650	300-650
最大電極重量 Max. workpiece weight kg	60	100	100
最大工作物重量 Max. workpiece weight kg	1000	1000	1500
機械淨重 Machine weight kg	2150	2230	3000
油箱 Weight For Dielectric kg	DA43	DA53	DA64

電源箱Power Supply Unit	50N	75N
最大加工電流 Max.machining current A	50	75
最大電源入力 Max.power input KVA	4	5
最大加工速度 Max.machining speed mm3/min	350	550
電極消耗比 Electord wear rate %	0.2	0.2
最佳表面精度 Best surface roughness $\mu m/Ra$	0.2	0.2
電源箱尺寸 Outside dimensions mm	Buit in	Buit in
電源箱淨重 Weight kg	Buit in	Buit in

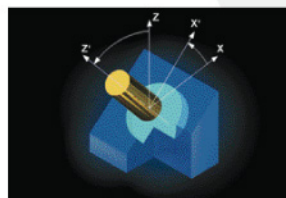
油箱Dielectric	DA43/DA53	DA43P/DA53P	DA64/DA64P
加工液容量 Volume L	480	414	635 / 672
過濾系統 Filter method	Paper filter	Paper filter	Paper filter
油泵馬力 Pump Power HP	0.5	0.5x2 0.75x1	0.5x1 / 0.5x2 0.75x1
淨重 Weight kg	Buit in	Buit in	Buit in
過濾箱尺寸 Outside Dimensions mm	Buit in	Buit in	Buit in

本公司隨時都在進行研究改進的工作，因此保有隨時更改設計、規格尺寸及機械結構之權力。
Note:The manufacturer reserves the right to modify the design and specifications to improve the performance of the machine without notice,all the specifications above are just for reference.

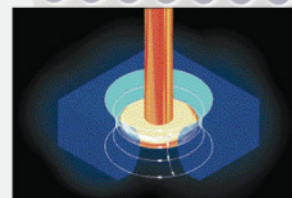
標準配備 STANDARD ACCESSORIES:	特別配件 OPTIONAL ACCESSORIES:
濾油網 Paper filter 1set	滅火器 Fire extinguisher
固定夾具 Clamping kits 1set	磁性座 Magnetic base
工具箱 Tool box 1set	自動電極交換裝置 Automatic tool changer
噴油磁座組 Flushing nozzle 2sets	冷卻器 Cooling system
水平腳墊 Machine stand 1set	C軸 C saxis
電鑽夾頭 Drill chuck 1set	CE規範 CE conformity
電極夾頭 Electrode holder 1set	
石英工作燈 Halogen work lamp 1set	

E碼功能說明 Specification of E Code Function

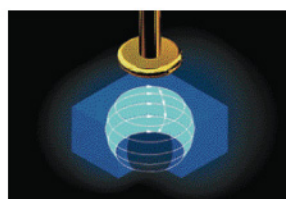
在擁有強力機能的控制器護航下，操作者只需輸入簡單的E碼並設定距離，半徑等(依不同E碼而定)便能執行複雜路徑加工，取代以往麻煩的NC程式編寫，出錯率降低且效率提升，簡單操作達成極度滿意。
A Specialist E-code programming edition to lead the user into advanced operation can fully instead of tradition G、M code complex program solutions.



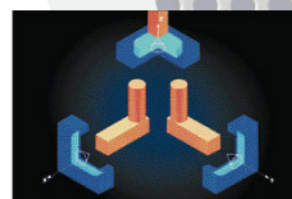
加工物呈現45度，電極依45度角路徑做斜平面擴孔加工。
Work-piece slanted at 45degree,the Electrode could able to do orbiting sparking at 45° Ramp accordingly.



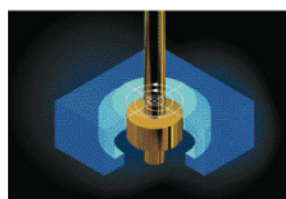
圓外球加工，Z軸以步階向下，X，Y以平面圓半徑做圓弧變化。
An exterior global processing, Z-axis do stepwise sparking in harmony,X,Y axes act arc circular motion on its radius.



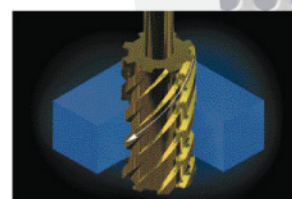
原內球加工，Z軸以步階向下，X，Y以平面圓半徑做圓弧變化。
An interior global processing, Z-axis do stepwise sparking in harmony, X,Y axes act arc circular motion on its radius.



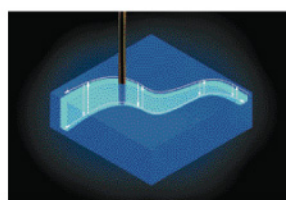
搖動擴孔加工，配合平面旋轉，可做三軸6方向加工。
Orbiting sparking, could act 3 axes in six directions moving along with rotation.



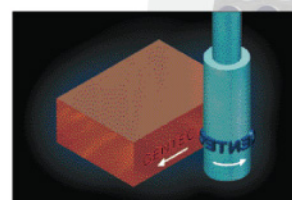
電極深度鎖死，X，Y呈平面擴孔加工。
Electrode Depth lock-up, X,Y axes do orbiting sparking.



Z軸配合C軸旋轉做螺紋加工。
Z-axis sparking with C-axis equipment to act screws Threading, Spiraling jobs.



使用GM模式編輯，會依照其G-CODE編輯加工路徑進行3D軌跡同步加工。
GM Code Edition mode: It's available to use GM code to do contouring job on 3D trajectory synchronization.



X軸&Y軸可同時配合C軸同動作滾輪刻模加工。
X,Y axes sparking with C-axis to act rollaway molds jobs.



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