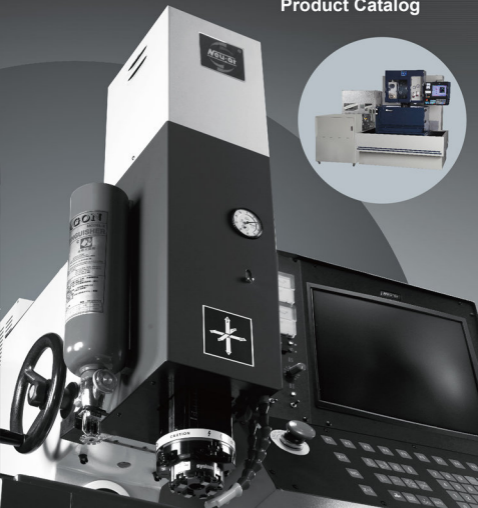


Neu-ar 茗亞

**Die sinker E.D.M
Wire cut E.D.M**

Product Catalog





專業製造

放電加工機 線切割加工機

Professional

茗亞精密機械股份有限公司創立於1998年。公司自成立以來，為了掌握市場新趨勢，提供給高科技業者更精密、更有效率的加工設備，因此不斷的研發創新，以更人性化的設計，製造多元化的EDM。

專業品質&誠信服務是本公司一貫的經營理念，我們不但提供給消費者物超所值的設備，更重視使用者的感受，因此隨著產品提供給客戶“Service all in one”的承諾，並認真的做好完善的售後服務，以期讓消費者買的安心，用的放心，這也是茗亞公司永續經營的唯一宗旨。

NEUAR Precision Machinery Co., Ltd. established in 1998, we stuck to “Professional” as commitment and goal. For continuous development, research and innovation to create more advance design for striving to satisfy customer demands of compact ergonomics. We always keep abreast of new trend to supply various EDM machines with high precision, high efficiency for those high tech. industries.

We pay special attention to customer satisfaction so you are assured the best possible after sales service no matter where you are. We believe that only by providing high quality products and beyond satisfactory service can Neuar achieve our goal of everlasting operations.



Die Sinker EDM Wire Cut EDM



C Series 功能多元化 · 品質一級化

本機配置高精密隱藏式旋轉軸

- 可搭配自動換刀系統
Auto tool changing system (ATC)
- 具三軸同動及側面放電加工功能
3-axis simultaneous movement and side machining
- 具XY.YZ.ZX平面搖動加工功能
XY.YZ.ZX, plane ORBIT/LORAN function
- 具圓弧軌跡及向量角度放電功能
Arc tracing and vector EDM erosion function
- 具60組座標定位加工功能
Capable to store 60 sets reference coordinates
- 具GM碼程式輸入功能
Support GM code editing input function
- 具自動校模,自動位移及定位功能
Automatic calibration, automatic displacement
And automatic positioning
- 具多孔巨集程式編輯功能
Multi-Hole program edit
- 具副程式編輯功能
Sub-program editing function
- 一個單節可自動完成多段修組加工
Automatic multi-step fine machining in single pass
- 內藏式旋轉C軸
Built-in rotational C axis
- C軸旋轉角度定位加工
C-axis rotation angle positioning machining
- C軸螺牙加工
C-axis helical thread machining
- C軸旋轉加工
C-axis rotation machining
- C軸齒條加工
C-axis rack machining



C軸旋轉及角度定位加工
C-axis rotation angle position machining



X,Y,Z : 400x300x300(mm)



X,Y,Z : 500x400x350(mm)

CNC-A50



X,Y,Z : 400x300x300(mm)

CNC-A90



X,Y,Z : 500x400x350(mm)

本機採用多元化高階數位控制系統

- 圖形及表格對話式編輯，操作簡易
Program with auxiliary icons are easy to be understood
- 內建硬碟與USB插槽
Built-in hard disk and USB slot to store more memory
- 配備海德漢1μ光學尺，尺寸更精準
Equip with high precision Heidenhain 1μ optical scaler
- 配備高級線性滑軌，擴孔位移更流暢
Sophisticated linear slippery track smooth orbit machining and displacement
- 配備高精度滾珠導螺桿，傳動更精緻
High precision ball screw for delicate transmission
- 配備0.5A迴路系統，讓加工面更亮麗
With 0.5A circuit system, the finish looks finest
- 雙重循環過濾系統，更有效隔離破渣
Double filtering system segregates carbon more efficiently
- 多重防火偵測系統，更安全更有保障
Multiple fire-proof detecting system
- 具三軸同動及側面放電加工功能
3-axis simultaneous movement and side machining
- 具XY,YZ,ZX平面搖動加工功能
XY,YZ,ZX plane ORBIT/LORAN function
- 具圓弧軌跡及向量角度放電功能
Arc tracing and vector EDM erosion function
- 具60組座標定位加工功能
Capable to store 60 sets reference coordinates
- 具GM碼程式輸入功能
Support GM code editing input function
- 具自動校模、自動位移及定位功能
Automatic calibration, automatic displacement
And automatic positioning
- 具多孔巨集程式編輯功能
Multi-Hole program edit
- 具副程式編輯功能
Sub-program editing function
- 一個單節可自動完成多段修飾加工
Automatic multi-step fine machining in single pass



鏡面加工
Mirror surface

A Series 效率強勁 · 永奪先機

本機採用多元化高階數位控制系統

- 圖形及表格對話式編輯，操作簡易
Program with auxiliary icons are easy to be understood
- 內建硬碟與USB插槽
Built-in hard disk and USB slot to store more memory
- 配備海德漢1μ光學尺，尺寸更精準
Equip with high precision Heidenhain 1μ optical scaler
- 配備高精密滾珠導螺桿，傳動更精緻
High precision ball screw for delicate transmission
- 配備0.5A迴路系統，讓加工面更亮麗
With 0.5A circuit system, the finish looks finest
- 雙重循環過濾系統，更有效隔離碳渣
Double filtering system segregates carbon more efficiently
- 多重防火偵測系統，更安全更有保障
Multiple fire-proof detecting system
- 具三軸同動及側面放電加工功能
3-axis simultaneous movement and side machining
- 具XY,YZ,ZX平面拖動加工功能
XY,YZ,ZX, plane ORBIT/LORAN function
- 具圓弧軌跡及向量角度放電功能
Arc tracing and vector EDM erosion function
- 具60組座標定位加工功能
Capable to store 60 sets reference coordinates
- 具GM碼程式輸入功能
Support GM code editing input function
- 具自動校模、自動位移及定位功能
Automatic calibration, automatic displacement
And automatic positioning
- 具多孔巨集程式編輯功能
Multi-Hole program edit
- 具副程式編輯功能
Sub-program editing function
- 一個單節可自動完成多段修細加工
Automatic multi-step fine machining in single pass



行星模式
Planet pattern



X,Y,Z : 250x200x200(mm)



X,Y,Z : 350x250x200(mm)

CNC-P30



X,Y,Z : 250x200x200(mm)

CNC-P50



X,Y,Z : 350x250x200(mm)

本機採用高階數位控制系統

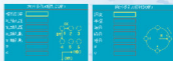
- 圖形及表格對話式編輯，操作簡易
Program with auxiliary icons are easy to be understood
- 內建記憶體與磁碟機，讓程式讀存方便
Built-in memory and hard disk driver
- 256組放電參數，可隨程式自動改變
256 sets of machining parameters can be automatically changed
- 配備海德漢1μ光學尺，尺寸更精準
Equip with high precision Heidenhain 1μ optical scaler
- 配備高精度滾珠導螺桿，傳動更精緻
High precision ball screw for delicated transmission
- 配備0.5A迴路系統，讓加工面更亮麗
With 0.5A circuit system, the finish looks finest
- 雙重循環過濾系統，更有效隔離碳渣
Double filtering system segregate carbon more efficiently
- 多重防火偵測系統，更安全更有保障
Multiple fire-proof detecting system
- 具自動校模、自動位移及定位的功能
Automatic calibration, automatic displacement and automatic positioning
- 具三軸同動及側面放電加工的功能
3-axis simultaneous movement and side machining
- 具圓柱與方柱搖動及擴孔加工功能
Square and circle enlargement and orbit machining
- 一個單節可自動完成十段修細加工
Automatic 10-step fine machining in single pass

行星



圓柱與方柱搖動及擴孔加工

Cylinder & Square cylinder enlargement and orbit machining



自動位移加工

Automatic displacement machining

ZNC Series 多段修細 · 更臻完美

本機主軸採用電腦伺服控制系統

- 具中英文操作畫面及公英制單位顯示
Chinese/English Metric/Inch unit can be displayed on screen
- 可隨加工程式自動改變加工條件
The EDM parameters can be changed according to the Auto program setting
- 可設定14個單節的加工尺寸
Automatic 14-step fine machining in single pass
- 具大面積放電慢速排渣功能
Be able to machining large area with stable and slow retracting of residue
- 60組加工座標系記憶設定
60 sets working coordinate setting
- 具深孔長距離排渣功能
Be able to machining deep hole with retracting of residue efficiently
- 單一畫面操作容易
Unify operation screen interface is easy to be understood
- 具電極消耗,粗細度,間隙值的數值顯示
Be able to indicate electrode wearing, surface roughness, sparking gap of electrode



操作畫面
Operation Interface



專家系統
Expert System



ZNC-30
(ZNC-50)

ZNC-30 X.Y.Z : 250x200x200(mm)

ZNC-50 X.Y.Z : 350x250x200(mm)



ZNC-90

X.Y.Z : 500x400x350(mm)

傳統尖兵 · 尺寸精準 M Series

M-30



採用海德漢專業EDM數值系統

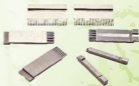
- 本機採用三軸式海德漢專業EDM數值控制系統
Equip Heidenhain 3 axes read-out EDM display system
- 數值顯示可達小數點第三位
Figure display 3 digits after decimal points
- 內建十組座標記憶，讓尺寸隨時掌握
10 sets coordinate memory
- 內建基準點與模具中心點設定功能
Built-in original and centering datum setting function
- 內建電極消耗補償功能，加工更精準
Electrode consumption offset function
- 內建防積碳顯示，自動排渣功能
Built-in residue-proof indication, drive out function of residue
- 配備海德漢1 μ 光學尺，尺寸更精準
Equip with high precision Heidenhain 1 μ optical scaler
- 配備高精度滾珠導螺桿，傳動更精緻
High precision ball screw for delicate transmission
- 雙重循環過濾系統，更有效隔離碳渣
Double filtering system segregate carbon residue efficiently
- 多重防火偵測系統，更安全更有保障
Multiple fire-proof detecting system
- 具多國語言模式切換功能
Multi-language able to display on the control panel

X,Y,Z : 250x200x200(mm)

M-50



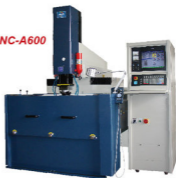
X,Y,Z : 350x250x200(mm)



連接器接腳
Connector pin sample

Bridge type EDM 柱動式大型EDM

CNC-A600



X,Y,Z : 600x450x400(mm)

CNC-C800



X,Y,Z : 800x600x500(mm)

CNC-A3200-2



X,Y,Z : 2550x1000x600(mm)

精密線切割加工機 Precision wire cut EDM

NEUCUT-S55T



X,Y,Z : 550x350x300(mm)

U,V : 120x120(mm)



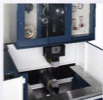
120° 可移動式操作面板，符合人體工學
120° swivel movable panel fit for ergonomics



切割鋼線承載重量可達10kg
Copper wires filler axis is able to load weight of 10 kgs.

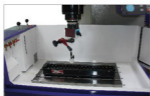


旋鈕式液位A閘門開關，操作方便
Knob switch to control level and inlet gate of fluid

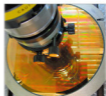


自動穿線系統
Precision of workable AWT system

Strict quality control 最嚴格的品質管制



機械精度定位補償
Position deviation compensation



真露皮軌跡檢測
HEIDENHAIN KGM Grid encoder



主軸穩定性檢測
Z axis stable check



粗糙度檢測
Roughness Ra Tester finish survey

Peripheral 最豐富的週邊配備

標準配備



粗糙度樣板尺
Sample plate of
roughness and fineness



工具與工具箱
Tool kit



海德漢光學尺
Heidenhain Linear optical scaler



電壓夾頭及說明書
Clamp & manual

選購配備



旋轉軸
Rotational axis



移動式15" CCD顯微量測器
Portable 15" CCD microscope



各式精密電極夾頭
Various kind of electrode chuck
3R System or EROWA



放電油冷卻機
Cooler

多元的加工能力 Various machining capability



倒角放電加工
Chamfer machining



向量角度加工
Fan shape angle machining



45°角三軸同動加工
45 degree machining



180° 弧線放電加工
Half circle machining



倒角形溝孔放電加工
Inverted awl machining



Z軸直線加工
Z-axis linear machining



直線位移加工
Linear move machining



三軸直線加工
3-axis linear machining



三軸同動直線加工
Simultaneously 3-axis linear machining



方溝孔
Square hole expansion



圓孔擴孔
Cylinder hole expansion



旋轉角度定位加工
C-axis rotation angle positioning machining



C軸螺絲加工
C-axis helical thread machining



C軸旋轉加工
C-axis rotation machining



C軸齒條加工
C-axis rack machining

放電機功能對照表 Comparison Table

功能 Features	P 型	A 型	C 型
具備自動尋邊、尋中心點的功能 Automatic edge finding and center finding	○	○	○
具備多孔自動位移、定位的功能 Automatic positioning, multi-bore displacement	○	○	○
一個單節可自動完成十段修細加工 Automatic 10-step fine machining in single pass	○	○	○
具備三軸同動及側面放電加工的功能 Simultaneous 3 axes movement and side machining	○	○	○
可執行45度清角放電加工 45° machining	○	○	○
具圓柱與方柱滾動及擴孔加工功能 Cylinder and Square cylinder machining	○	○	○
可執行內溝槽放電及擴孔加工 inner groove and orbit machining	○	○	○
可執行螺絲孔內牙擴孔加工 inner thread machining	○	○	○
具備副程式編輯的功能 Sub-program editing	—	○	○
可執行圓弧軌跡放電加工 Arc course machining	—	○	○
可執行向量角度放電加工 Vector and angle machining	—	○	○
可加裝ATC自動換電極系統 Optional ATC system	—	○	○
配備隱藏式旋轉軸 (360,000度) Hidden 360° rotational axis	—	—	○
可執行360,000度中任一角度定位加工 360° indexing	—	—	○
可執行360,000度旋轉放電加工 360° Rotational machining	—	—	○
可執行各種螺旋齒牙放電加工 Any helical thread machining	—	—	○
可執行圓柱深孔旋轉放電加工 Cylinder deep hole rotational machining	—	—	○

Specification 機台規格

機台規格/型號 SPECIFICATION	UNIT	M-30	M-50	ZNC-30	ZNC-50	ZNC-90	CNC-C50
工作槽尺寸 WORK TANK DIMENSIONS	mm	885x435x270	940x530x350	885x435x270	940x530x350	1240x700x435	940x550x350
工作台尺寸 WORK TABLE DIMENSIONS	mm	470x280	630x360	470x280	630x360	800x450	630x360
主軸與工作台最大距離 DISTANCE BETWEEN MAIN AXIS TO TABLE	mm	405	520	405	520	650	410
三軸加工行程 X, Y, Z AXIS TRAVEL DIMENSIONS	mm	250x200x200	350x250x200	250x200x200	350x250x200	500x400x350	400x300x300
Z軸輔助行程 AUXILIARY TRAVEL OF Z AXIS	mm	170	200	170	200	170	-
最大工件重量 MAX. WORKPIECE WEIGHT	kgs	300	500	300	500	1350	500
最大電極重量 MAX. ELECTRODE WEIGHT	kgs	30	50	30	50	200	11/50
加工液容量 MAX. CAPACITY OF DIELECTRIC	Liters	200	300	200	300	600	300
最大加工速度 MAX. MACHINING SPEED	mm ³ min	230	420	230	420	480	420
最小電極消耗比 MIN. WEAR RATE	%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%
最佳表面粗糙度 THE BEST SURFACE FINISH	μm	<Ra 0.18 μm	<Ra 0.18 μm	<Ra 0.18 μm	<Ra 0.18 μm	<Ra 0.18 μm	<Ra 0.12 μm
最大輸出電流 MAX. OUTPUT CURRENT	A	30A	50A	30A	50A	60A	50A
電源容量 INPUT POWER	KVA	2.4	3.3	2.4	3.3	4.06	3.3
機械總體積 MACHINE LxWxH	cm	130x125x212	140x138x220	130x125x212	140x138x220	205x180x244	155x140x225
機械總重 TOTAL WEIGHT OF MACHINE UNIT	kgs	1095	1350	1110	1375	2615	1450

機台規格/型號 SPECIFICATION	UNIT	CNC-P30	CNC-P60	CNC-A30	CNC-A35	CNC-A50	CNC-A90
工作槽尺寸 WORK TANK DIMENSIONS	mm	885x435x270	940x530x350	885x435x270	940x530x350	940x550x350	1240x700x435
工作台尺寸 WORK TABLE DIMENSIONS	mm	470x280	630x360	470x280	630x360	630x360	800x450
主軸與工作台最大距離 DISTANCE BETWEEN MAIN AXIS TO TABLE	mm	405	520	405	520	410	650
三軸加工行程 X, Y, Z AXIS TRAVEL DIMENSIONS	mm	250x200x200	350x250x200	250x200x200	350x250x200	400x300x300	500x400x350
Z軸輔助行程 AUXILIARY TRAVEL OF Z AXIS	mm	170	200	170	200	-	170
最大工件重量 MAX. WORKPIECE WEIGHT	kgs	300	500	300	500	500	1350
最大電極重量 MAX. ELECTRODE WEIGHT	kgs	30	50	30	50	50	200
加工液容量 MAX. CAPACITY OF DIELECTRIC	Liters	200	300	200	300	300	600
最大加工速度 MAX. MACHINING SPEED	mm ³ min	230	420	230	420	420	480
最小電極消耗比 MIN. WEAR RATE	%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%
最佳表面粗糙度 THE BEST SURFACE FINISH	μm	<Ra 0.16 μm	<Ra 0.16 μm	<Ra 0.12 μm	<Ra 0.12 μm	<Ra 0.12 μm	<Ra 0.12 μm
最大輸出電流 MAX. OUTPUT CURRENT	A	30A	50A	30A	50A	50A	60A
電源容量 INPUT POWER	KVA	2.4	3.3	2.4	3.3	3.3	4.06
機械總體積 MACHINE LxWxH	cm	130x125x212	140x138x220	130x125x212	140x138x220	155x140x225	205x180x244
機械總重 TOTAL WEIGHT OF MACHINE UNIT	kgs	1135	1405	1135	1405	1370	2615

※本型僅供參考，本公司保有機型設計、配件、規格、顏色之最終修改權。

機台規格 / 型號 SPECIFICATION	UNIT	A 705	A 800	A 800	A 800	A 1000	A 1200	A 1400
工作槽尺寸 WORK TANK DIMENSIONS	mm	1720x1000x550	1250x780x320	1500x950x320	1720x1100x615	1880x1100x615	2120x1250x615	2200x1350x615
工作台尺寸 WORK TABLE DIMENSIONS	mm	1100x600	850x400	1000x600	1200x700	1250x750	1350x820	1700x950
主軸與工作台最大距離 DISTANCE BETWEEN MAIN AXIS TO TABLE	mm	250-835	280-660	320-710	400-920	420-920	500-1010	520-1050
三軸加工行程 X, Y, Z AXIS TRAVEL DIMENSIONS	mm	700x550x250	500x350x350	600x450x400	800x600x500	1000x600x500	1200x700x500	1400x700x500
Z軸輔助行程 AUXILIARY TRAVEL OF Z AXIS	mm	300	-	-	-	-	-	-
最大電極重量 MAX. ELECTRODE WEIGHT	kgs	250	200	250	350	350	400	450
最大工件重量 MAX. WORKPIECE WEIGHT	kgs	2,200	1,500	1,800	2,500	2,750	3,000	3,500
最大加工速度 MAX. MACHINING SPEED	mm ³ min	770	480	770	1,025	1,025	1,025	1,025
最小電極消耗比 MIN. WEAR RATE	%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%
最佳表面粗糙度 THE BEST SURFACE FINISH	µm	<0.12 µm	<0.12 µm	<0.12 µm	<0.12 µm	<0.12 µm	<0.12 µm	<0.12 µm
最大輸出電流 MAX. OUTPUT CURRENT	A	100A	60A	100A	120A	120A	120A	120A
電源容量 INPUT POWER	KVA	9.173	3.98	9.173	10.279	10.279	10.279	10.279
機械總體積 MACHINE LxWxH	cm	200x250x221	175x156x238	176x180x261	280x260x320	300x260x320	320x316x326	255x350x320
機械總重 TOTAL WEIGHT OF MACHINE UNIT	kgs	2,950	2,700	3,500	4,800	5,350	5,800	7,900
加工液容量 MAX. CAPACITY OF DIELECTRIC	L	1,100	700	800	1,300	1,400	1,800	2,000
油箱淨重 WEIGHT	kgs	420	280	360	430	470	530	580
油箱尺寸 DIMENSIONS LxWxH	cm	212x130x45	152x100x56	190x110x56	220x130x58	230x140x58	250x150x58	260x160x58

機台規格 / 型號 SPECIFICATION	UNIT	A 1800	A 1800	A 2000	A 2200	A 2200-2	A 3200-2
工作槽尺寸 WORK TANK DIMENSIONS	mm	2490x1300x650	2600x1350x700	2750x1800x700	2860x1600x740	3080x1700x800	4980x1700x800
工作台尺寸 WORK TABLE DIMENSIONS	mm	1800x950	1850x1000	2150x1100	2250x1100	2250x1100	3100x1100
主軸與工作台最大距離 DISTANCE BETWEEN MAIN AXIS TO TABLE	mm	500-1050	450-1050	650-1260	650-1260	580-1300	580-1300
三軸加工行程 X, Y, Z AXIS TRAVEL DIMENSIONS	mm	1600x750x550	1800x800x600	2000x1000x600	2200x1000x600	1550x1000x600 775x1000x600	2550x1000x600 1275x1000x600
Z軸輔助行程 AUXILIARY TRAVEL OF Z AXIS	mm	-	-	-	-	-	-
最大電極重量 MAX. ELECTRODE WEIGHT	kgs	450	500	500	500	500	500
最大工件重量 MAX. WORKPIECE WEIGHT	kgs	4,000	4,500	5,500	6,000	9,500	12,000
最大加工速度 MAX. MACHINING SPEED	mm ³ min	1025	1025	1025	1025	1,025	1,025
最小電極消耗比 MIN. WEAR RATE	%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%
最佳表面粗糙度 THE BEST SURFACE FINISH	µm	<0.12 µm	<0.12 µm	<0.12 µm	<0.12 µm	<0.12 µm	<0.12 µm
最大輸出電流 MAX. OUTPUT CURRENT	A	120A	120A	120A	120A	120A x 2	120A x 2
電源容量 INPUT POWER	KVA	10.279	10.279	10.279	10.279	10.279 x 2	10.279 x 2
機械總體積 MACHINE LxWxH	cm	280x355x320	310x360x320	350x410x358	370x410x358	420x410x358	510x410x362
機械總重 TOTAL WEIGHT OF MACHINE UNIT	kgs	8,100	8,300	12,300	13,200	14,800	17,800
加工液容量 MAX. CAPACITY OF DIELECTRIC	L	2,200	2,600	3,200	3,400	4,200	5,400
油箱淨重 WEIGHT	kgs	680	730	820	930	1,100	1,230
油箱尺寸 DIMENSIONS LxWxH	cm	280x140x70	300x150x70	315x175x71	340x180x71	354x180x83	454x180x83



NEU-AR PRECISION MACHINERY



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