



中走絲線切割機

CNC Wire-cut EDM MOLYBDENUM WIRES

精度與細度最領先的中走絲

產品特性 FEATURES

- 一刀切割速度可達180mm²/min以上，三刀為55mm²/min以上。
- 率先採用環保專利設計，真正可達到滴水不漏之環保機台。
- 精度領先、媲美慢走絲，其所生產之產品其切割圓，真圓度可達0.008mm，切割八角加工精度0.01 mm以下，切割之表面粗糙度Ra≥1.0um直逼慢走絲。
- 切割技術與慢走絲同步，對極間採取智慧型監控，可達至不斷絲。
- 標準切割損耗可達50,000mm²平方，最高可達80,000mm²。
- 對極間有防積炭處理，使損耗及切割速度得到最佳匹配。
- 採人性化高階智能控制器，只要輸入工件厚度、材料，電腦會自動產生出加工參數，達到真正的智能化加工。

- The speed of 1-cut can reach above 180mm²/min; 3-cut can reach above 55mm²/min.
- Use the green patented design to achieve leaking-free totally.
- Accuracy is comparable to brass wire edm. The cutting production of roundness is able to up to 0.008mm; the accuracy of octagon is 0.01mm below and the roughness of surface is Ra≥1.0um which approaches Brass wire-cut.
- Take the same pace with the brass wire-cut technology with the inter-intelligent monitor to achieve wire break-free.
- The standard cutting is up to 50,000mm², and could be up to 80,000mm² max. The wear of molybdenum wire is 0.01mm.
- Electric Discharge with anti-carbon deposition processing make the best match between wear and cutting speed.
- To adopt high-level user-friendly intelligent controller, as long as input the thickness and the material of the workpiece, the computer will automatically generate a machining parameters to achieve the real fuzzy processing.



- 運絲結構採無斷變頻技術，使得切割容易，低故障率。
- **Wire-Cycling Device**
The low maintenance (rotatable) wiring drum driven by inverter motor provides consistent wire cutting results.



- 維度裝置
- **UV Axis Unit**
Can tilt cutting wire at an angle for Taper Cut or move with XY axis simultaneously for Double-Contour cutting.



- 眼模設備
- **Wire Guide**
Made of durable hard metal to precisely hold cutting wire in position; sizes from φ 0.18-φ 0.20mm are available.



- 自動混合離子過濾高壓水泵，使切削效果達到一致。
- **Filtration Unit**
High-pressure automatic mixed-ion water pump filter makes the cutting achieve the effect identically.

加工樣品 PROCESSING SAMPLE



CNC 控制系統裝置 CNC CONTROLLER STRUCTURE DEVICE



- 智慧型等能量加工迴路，使加工效率可達180mm²/min，表面粗糙度Ra≥1.0um。
- **Smart EEM Control Chip**
Fuzzy constant energy processing is capable of making the efficiency up to 180mm²/min and the surface roughness to Ra≥1.0um.

台灣研發製造 Design&made in Taiwan



- 圖形編輯方式輸入可分為“線上編輯”、“USB輸入”、“網路傳輸”圖檔傳輸更便利。
- Various editing method: On-line, USB and network transmit available.

- 多次自動加工“割一修二”最多至“割一修七”。
- **Auto Skim Cut Function** Provides 2 to 7 Skim Cuts after first pass.

- 加工軌跡顯示。
- Machining process display.

- 加工路徑模擬。
- Machining path simulate.

- 停電記憶。
- Memories stay if power-off.

- 斷絲回復原點。
- Return to origin if wire is brake.

- 短路保護裝置、安全性佳。
- Short circuit protection device designed for security concern.

- 尋中、尋邊。
- Center-search and side-search.

- 間隙、線徑補償。
- Compensation of gap and wire path.

- 加工中繪圖，工作不間斷，多重操作更省時。
- Draw and edit while processing without interruption.

- 維度及上下異形。
- Capable of doing awl angle and oblique polyhedron.

- 正/逆軌跡加工。
- Positive/negative paths process.

- 加工結束自動停止裝置。
- Auto stop device when process terminate.

電器箱系統裝置 ELECTRIC BOX SYSTEM DEVICE

- 電器箱：
採用先進工控機系統，整體設計，插拔式系統，故障低，維修容易，高頻電源採用最新奈米技術可達1微秒有效之控制輸出。

- **Electric box** :
The advanced industrial computer systems, the overall design and plug-in system decrease the breakdown, and make maintenance easily. High-frequency power supply adopts the latest nanometer technology, and enables to control the output valid in a microsecond.

- 控制系統：
採用HF國內最先進最熟悉之人機介面，配合最新開發之電控系統，將中走絲功能與特性直逼慢走絲之效果。

- **Controller system** :
Utilize the most familiar and advanced human machine interface with the latest development of electronic control system to make the functions of characteristics of molybdenum wire-cut reach the effect of brass wire-cut and beyond the domestic suppliers.

- 運絲系統：
採用無段變速之架構，使切割效能達到最高效率。
- **Wire transport system** :
Utilize the wire fault-free structure to achieve maximum efficiency in cutting performance.

- 警示裝置：
採人性化設計，忠實顯示機台任何狀態，並提供最佳處理方式，讓操作更簡便、有效率。
- **Alarm device** :
Utilize the humanized design to display any status of machine truly and provide the best approach so it's more convenient and efficient operation.

繪圖加工程式 Programming



- Autocad 格式通用
- Applies to DXF file
- 線上編輯
- Editing
- USB 輸入、網路傳輸
- Input/output through USB drive or Ethernet
- 維度及上下異形
- Provide tapered and transitioning shapes cutting

人機介面 User Interface



- 多次自動加工“割一修二”最多“割一修七”
- Auto Skim Cut Function Up to 7 skims cuts, provides better finish and closer tolerance.
- 參數變更操作簡易
- Fast and Easy Parameter setup.
- 機台資訊完整呈顯
- Complete operation information on screen.
- 人性化高階智能控制器
- User-friendly Controller.

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規格表 SPECIFICATIONS

功能對照代碼： Contrast codes in function :

- EW32VC** — C: 環保罩 (Environmental protection covering)
 — V: 滾柱型 (V Guides)
 系列 (Series) (Type)

機台規格 SPECIFICATION

項目 ITEM \ 型號 MODEL	單位	EW32VC	EW40VC	EW50V	EW63V
工作台尺寸 WORK TABLE	mm	600x400	700x450	870x580	1400x760
工作台行程 WORKTABLE TRAVEL (X-Y)	mm	320x400	400x500	500x630	630x800
最大切割厚度 MAX. CUTTING THICKNESS	mm	400	400	400	600
錐度 / 厚度 MAX. MACHINING TAPER	degree/mm	±3 / 70	±3 / 70	±3 / 70	±3 / 70
最大切割速度 MAX. MACHINING SPEED	mm ³ /min	100~180	100~180	100~180	100~180
走絲速度 WIRE TRAVELLING SPEED	m/sec	1~11	1~11	1~11	1~11
加工精度 ACCURACY (BY 10°10'80 WORKPIECE)	mm	0.01	0.01	0.01	0.01
加工表面精細度 ROUGHNESS	μ mRa	Ra ≥ 1.0	Ra ≥ 1.0	Ra ≥ 1.0	Ra ≥ 1.0
電極絲直徑範圍 DIA. OF ELECTRODE WIRE	mm	φ 0.18, φ 0.2	φ 0.18, φ 0.2	φ 0.18, φ 0.2	φ 0.18, φ 0.2
最大工作重量 CAPACITY OF WORKTABLE	kg	350	500	800	1500
工作液 WIRE CUTTING FLUID	專用線切割工作液 WATER-BASED DIELECTRIC				
工作液箱容量 DIELECTRIC RESERVOIR CAPACITY	liter	120	120	120	120
最大加工電流 MAX. MACHINING CURRENT	A	10	10	10	10
機床供電電源 POWER SUPPLY	V	380 / 220	380 / 220	380 / 220	380 / 220
機床消耗功率 POWER CONSUMPTION	KVA	2	2	2	2
機床外型尺寸 MACHINE DIMENSIONS (L*W*H)	mm	1650x1170x1650	1680x1350x1650	1900x1700x1650	2350x2300x1850
機床重量 MACHINE WEIGHT	kg	1300	1500	2200	3800

- 因長期研發，機械設計如有變更，恕不另行通知。
- All specifications and designs are subject to change without notice.
- 可做客戶需求，提供超大型之機種。
- Larger models are available as requests.

標準配備 STANDARD ACCESSORIES

工作燈	1個 / 1 SET	WORK LAMP
工作件夾具組	1組 / 1 SET	JIG SET FOR WORKING PIECE
0.18mm或0.20mm鉼絲電極一卷	1捲 / 1 ROLL	ELECTRODE MOLYBDENUM WIRE 0.18mm
濃縮工作液	1桶 / 1 CAN	CONCENTRATE LIQUID
操作、加工手冊	1份 / 1 SET	OPERATION and PROCESSING MANUAL
工具組	1組 / 1 SET	TOOL SET
強力磁鐵	1式 / 1 SET	STRONG MAGNET
5μm, X, Y軸光學尺	1式 / 1 SET	5 μm, X, Y-AXES OPTICAL SCALE
主導輪組	1對 / 1 SET	FRONT ROLLER SET
排絲輪組	1對 / 1 SET	REAR ROLLER SET
Z軸電動升降馬達	1式 / 1 SET	Z AXIS ELEVATING MOTOR
機台潤滑油路系統	1式 / 1 SET	LUBRICATION PATH SYSTEM
USB、RS232、網路功能	1式 / 1 SET	USB、RS232 and NETWORK AVAILABLE

選配配備 OPTIONAL ACCESSORIES

自動注油器	AUTOMATIC LUBRICATOR
切削液磁性過濾器	MAGNETIC FILTER FOR COOLANT



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經銷商 AGENT



ISO 9001:2000



中走絲線切割機 精度與細度最領先的中走絲 CNC Wire-cut EDM MOLYBDENUM WIRES

經驗領先

光纖電腦專注於放電加工控制器，線切割加工放電迴路的設計超過20年的經驗，掌握有高頻微細電源及數位控制的關鍵技術，達到超細加工及低損耗的加工需求。

品質領先

ORBIT-CUT銷售超過5000台實績，品質獲得客戶一致肯定，“好用又不會壞”。

服務領先

我們的品質及服務、讓你買的開心用的放心。



Advanced Experience

Kuang Chien Computer Co., Ltd. is specialized in the designs of EDM controller and wire-cut processing discharging circuit for more than 20 years. Master and control the high-frequency and micro discharging and digital control of key technologies. Meet the processing demand of tiny working and low wear.

Advanced Quality

ORBIT-CUT have been sold more than 5,000 units. Get the unanimously affirmance from users. "use easily without faults".

Advanced Service

Clients will be satisfied and relieved with COMWEB's quality and service.

效率超越快走絲 · 細度直逼慢走絲

環保專利架構 · 真正達到滴水不漏！

Efficiency oversteps high speed, fineness meets slow speed
 Green patented structure prevents leaking successfully



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