



# CHOICE OF VARIOUS CONTROLS-ZNC, PNC, CNC

## Your Total Molds Solution

### MIC-322CS

X Travel : 300mm  
Y Travel : 200mm  
Z Travel : 200+200mm  
Max. Workpiece Weight : 500kg  
Max. Electrode Weight : 60kg



### MIC-432CS

X Travel : 400mm  
Y Travel : 300mm  
Z Travel : 200+250mm  
Max. Workpiece Weight : 600kg  
Max. Electrode Weight : 90kg



### MIC-432C

X Travel : 400mm  
Y Travel : 300mm  
Z Travel : 200 + 200mm  
Max. Workpiece Weight : 750kg  
Max. Electrode Weight : 75kg



### MIC-544M

X Travel : 500mm  
Y Travel : 400mm  
Z Travel : 350mm  
Max. Workpiece Weight : 1500kg  
Max. Electrode Weight : 220kg



### MIC-640L

X Travel : 600mm  
Y Travel : 450mm  
Z Travel : 400mm  
Max. Workpiece Weight : 3000kg  
Max. Electrode Weight : 250kg



### MIC-25106H

X Travel : 2500mm  
Y Travel : 1000mm  
Z Travel : 600mm  
Max. Workpiece Weight : 12000kg  
Max. Electrode Weight : 600kg



### MIC-1050L

X Travel : 1000mm  
Y Travel : 550mm  
Z Travel : 450mm  
Max. Workpiece Weight : 4000kg  
Max. Electrode Weight : 400kg



### MIC-433MS

X Travel : 400mm  
Y Travel : 300mm  
Z Travel : 300mm  
Max. Workpiece Weight : 550kg  
Max. Electrode Weight : 120kg



### MIC-433M

X Travel : 400mm  
Y Travel : 300mm  
Z Travel : 300mm  
Max. Workpiece Weight : 700kg  
Max. Electrode Weight : 120kg



### Main Features:

- Using industrial 32bit PC-BASE control system, high stability & reliability.
- Chinese and English bilingual operation, user friendly guided dialogue. Easy to learn & operate.
- Simple eroding editing, even only need current and depth commands entry.
- During sparking, self-adjust sparking condition to ensure better performance. Easy to operate.
- Turn the machine on, the original sparking codes showed. Push Sparking ON to carry on the job.
- ZNC, PNC can link the external orbit-cut for enlarged & finished caving machining.
- High technology optical component and CNC control for anti-interference and precise application. Linear scales be used for accurate position control.
- Omni-optional mode:  
ZNC: One axis digital control + Max. 12 steps for fine eroding in both up and down direction.  
PNC: Three axes + multi-cave moving sparking + side sparking+ automatic probing.  
CNC: Three axes digital control + 2.5D, 3D orbit function + multi-cave moving sparking + side sparking + automatic probing.
- Module-design system, easy for maintenance, high reliability and high stability.
- DDS: Digital Discharge System Total digital discharge system, high sparking efficiency, fine finish surface.
- ADE: Absolute Digital Equal Capacity Discharge System Absolute digital equal capacity discharge, better working performance got, quicker up 10-20%, and lower electrode wear ratio about 20-25%.
- DSD: Digital synchronism discharge recognizer System Supervising the sparking status, automatically modified eroding parameters to get the best result.
- POWER MOSFET used, let the machining total-digital controlled for sparking.
- Sparking OFF during retracting. Quicker speed than other brands. Double sparking avoided.
- High security function, when electrodes short and discharge voltage too low, prevent the electrode and mold from damage.
- Sparking stability command and retracting up speed command can be adjusted separately, convenient for application, especially for the eroding ability with large area electrode.
- High power & high frequency PWM serve motor drive system used for high sensitivity of sparking.

### PC-Base EDM Cabinet Specification 電氣箱規格

Item 項目	Model 型號	PNC					CNC
		ZNC	60A	120A	180A	250A	
Function 加工功能	Z 軸可程式加工、 導中心、1/2 Z Depth Control	自動移位、多孔程式加工、 導中心、1/2、自動進測、 + Positioning + Auto-Probing + Pattern					自動移位、多孔程式加工、 + 圓、方、放射、45°角、 + Orbit-Cut
Sparking Axis 放電軸	Z	X, Y, Z					
Eroding Direction 放電方向	Z +/-	X +/-, Y +/-, Z +/-					
Language 語言		中文/ English					
Resolution 最小單位		0.005 mm	0.001 mm			0.001 mm	
Display Axis 顯示軸數		3 Axes 三軸光學尺位置顯示					
Position Unit 定位單位		mm or Inch					
Programming 程式記憶		Max. PGM Nr. 9999, Max. 12 Steps/PGM 最大程式編號 9999, 最多12段可程式加工					
Capacity 電箱規格	A	60	120	180	250	300	
Max. Working Current 最大出力	A	84	125	192	258	320	
Power Consumption 最大電力消耗	KVA	6 KVA	12 KVA	18 KVA	25 KVA	30 KVA	
Cabinet Dimensions 電箱尺寸	mm	600 x 800 x 1800	800 x 800 x 1800	800 x 1200 x 1800	800 x 1200 x 1800	600 x 1200 x 1800	
Net Weight 淨重	kg	230	280	380	420	480	
Max. Machining Speed mm3/min 最大加工速度		680	1420	2230	2980	3780	
Finest Roughness 最佳粗糙度		0.3 Ra um					
Min. Electrode Wear 最小電極消耗		<-0.2%					

### Standard Accessories 標準配件

- Paper Filters
- Electrode Holder
- Flushing Nozzle
- Drill Chuck
- Clamping Kits
- Tool Box
- Working Lamp

- 濾油網
- 標準電極頭
- 磁性噴油器
- 電鑽夾頭
- 夾具箱
- 工具箱
- 石英工作燈

### Machine Specifications 機械規格

Item 項目	Model 型號	MIC-322CS	MIC-432CS	MIC-432C	MIC-542C	MIC-433MS	MIC-433M	MIC-544M	MIC-540L	MIC-640L	MIC-860L	MIC-1060L	MIC-1270L	MIC-1470L	MIC-1600L	MIC-1880L	MIC-2010L	MIC-2210L	MIC-1066H	MIC-1566H	MIC-20106H	MIC-25106H
Work Table Size 工作台	mm	600x300	700x350	850x400	800x450	850x350	850x350	800x450	850x400	1000x600	1200x700	1250x750	1350x820	1700x950	1800x950	1850x1000	2150x1100	2250x1100	1500x1200	2200x1200	2800x1500	3400x1500
X, Y, Z Travel 工作行程	mm	300x200x200+200	400x300x200+200	400x300x200+250	500x400x200+300	400x300x300	400x300x300	500x400x350	500x400x350	800x450x400	800x800x500	1000x600x500	1200x700x500	1400x700x500	1800x750x550	1800x800x600	2000x1000x600	2200x1000x600	1000x800x600	1500x800x600	2000x1000x600	2500x1000x600
Electrode Plate to work Table 電極板至工作台距離	mm	150-550	200-650	200-650	240-740	270-570	270-570	275-575	420-770	300-700	450-950	450-900	520-1020	600-1100	550-1100	550-1100	700-1300	700-1300	600-1200	600-1200	600-1200	600-1200
Max. Electrode Weight 最大電極重量	kg	60	90	70	180	120	120	220	200	250	400	400	400	500	500	500	500	500	600	600	600	600
Max. Workpiece Weight 最大工件重量	kg	500	600	750	1350	550	700	1500	2500	3000	4000	4500	5000	6500	7000	7000	10000	11000	5000	6000	8000	10000
Work Tank Size 工作油槽	mm	820x500x300	1070x580x370	1070x640x340	1170x680x425	970x550x350	970x550x350	1200x680x425	1260x780x520	1500x940x520	1800x1100x625	1900x1100x625	2100x1250x625	2200x1320x620	2550x1320x700	2650x1320x700	2740x1700x900	2940x1700x900	2200x1400x900	3200x1400x900	4000x1800x900	4900x1800x900
Weight of Machine Unit 淨重	kg	1300	1300	1400	1850	1200	1350	1900	2800	3600	5000	5500	8000	8000	8300	8500	12000	13000	5300	7800	12000	15000
Outside Dimensions 外圍尺寸	mm	1380x1430x2100	1600x1400x2300	1400x1200x2200	1350x1640x2150	1400x1380x2250	1200x1410x2250	1350x1640x2350	1700x1560x2380	1720x1800x2610	3300x2800x3200	3400x2800x3200	3800x3100x3280	2600x3500x3200	2850x3550x3200	3150x3600x3200	5413x4523x3568	5483x4573x3568	2400x2000x3200	3600x2000x3200	4500x2800x3200	5400x3000x3200

\*規格更改不另通知 \* Specification is subject to be changed without notice.

### Optional Accessories 特別配件

- Automatic Fire Extinguisher
- Dielectric Cooler
- Permanent Magnetic Table
- 3R Erwa
- Hirschmann
- ATC
- 自動滅火器
- 加工液冷卻器
- 磁性表
- 磁棒