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THE
IDEAL MACHINING!

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EDM LINE

RTA Series 系列

HIGH SPEED MIRROR EFFECT SINKER EDM
高速鏡面放電加工機

全新!
ADVANCE!

精密級量測機體結構

- 精密級量測機體結構，確保最佳結構剛性與穩定性。 AC 伺服馬達驅動，有助於提升加工速度及移動效率。

升降式油槽

- 加工油槽為無段升降式設計，可提升校模速度。

一體化設計

- 機台、油箱、電箱為一體化設計，比其他機台節省 10% 佔地空間。

Windows 觸控式螢幕

- 提供人性化的操作介面，操控簡易，可快速上手。

先進 SMC 放電加工技術 加工效率提升 2.5 倍

- 美溪採用最新開發的 SMC 放電加工技術，針對石墨電極及硬質合金加工，可降低電極損耗 30%，加工效率提升高達 2.5 倍。

Precision Measured Machine Structure

- The precision measured machine structure ensures the optimal structural rigidity and stability.
- AC servo-motor drive leads to higher machining speed and more efficient movement.

Elevating Fluid Tank

- The dielectric fluid tank is a variable elevating design, that helps to upgrade mold setup speed.

Integrated Structure Design

- The machine base, working tank and power generator is an integrated compact design, which may save 10% of space occupation compared with other types of machine.

Windows Touch-Screen

- It provides a user-friendly operational interface, making the machine easy to learn and operate.

Advanced SMC EDM Technology Machining Efficiency Increased by 2.5 Times

- MAXSEE employs the latest developed SMC EDM Technology for machining with graphite electrode and hard alloy steel machining, that is able to reduce electrode wear by 30% while increasing machining efficiency by up to 2.5 times.

Technical Data 技術資料	RTA40	RTA50	RTA58
X/Y Travel X/Y軸行程	400 x 300 mm	600 x 500 mm	800 x 500 mm
Z Travel Z軸行程	400 mm	400 mm	400 mm
Max. Work Piece (LxWxH) 最大工件尺寸	800 x 600 x 400 mm	1000 x 800 x 570 mm	1100 x 900 x 570 mm
Max. Work Piece Weight 最大工件重	800 kg	2000 kg	3000 kg
Work Table Size 工作台尺寸	740 x 390 mm	800 x 700 mm	900 x 800 mm
X/Y Feed Rate X/Y軸進給率	1000 mm/min	1000 mm/min	1000 mm/min
X/Y/Z Axis Servo X/Y/Z軸伺服	AC servo	AC servo	AC servo
Machine Net Weight 機台淨重	3500 kg	4500 kg	5000 kg
Machine Dimension 機台尺寸	2064 x 2030 x 3200 mm	2600 x 2900 x 3500 mm	2700 x 3000 x 3500 mm

本公司保留規格，設計及特性變更之權利，恕不另行通知。 Specifications are subject to change without notice.

Standard Accessories 標準配備

Filters	濾網
Tool Box x 1 set	工具箱 x 1組
1/2" Chuck x 1 set	1/2"夾頭 X 1組
Nozzle x 2 pcs	沖油噴嘴 x 2組
Extinguisher x 1 pc	滅火器 x 1組
Operation Manual x 1 pc	操作手冊 x 1本
Working Lamp x 1 pc	工作燈 x 1個
Dielectric Cooler x 1 set	油冷卻器 x 1組

Optional Accessories 選擇配備

Auto Tool Changer	自動換刀系統
Rotary table	旋轉工作台
C axis system	C軸

CNC

C-type Series 系列

C 型機床特色

精緻化的機械結構設計以及採用品質精良的機械零組件，同時保證機器的精度與品質。選用高等級鑄件，三軸光學尺回饋系統，工作台使用特殊熱處理加工過，增加鋼性及確保長時間使用下，不變形。精密滾珠導螺桿及伺服馬達裝在 X 跟 Y 軸，確保機台在移動時的精度及重複精度良好。

C Type Machine Features

Sophisticated machine structure design with selected main components assures both the machine's accuracy and quality. 1 micron optical scale feedback on X, Y and Z axis. The table surface is heat treated for high rigidity and long wear resistance. Precision ground ball screws coupled with servo motors in the X and Y axes provide smooth accurate movement and precise repeatability.

CNC PC based 控制器 - C型機床

CNC PC based 控制器用於 C 型機床。採對話式功能，使操作者能迅速了解並快速設定加工參數。側面加工與多種圖型選擇的搖動加工，及特殊研發防積碳系統，全程監控積碳區域及及時調整加工程序

CNC PC based controller – C type machine

CNC PC based controller uses on C type mahcine, with conversational operation makes users easier understand and set the processing parameter rapidly. Side machining and various mahcining patterns for orbit machining, and special developed ARC-less circuit intensive monitor arc activity and adjust process accordingly.

PC based 控制器標配機種 / PC based controller standard for
CNC C26 / P26 / C36 / P36 / C54 / P54 / P56

C型機床另有三合一機種 (CNC C26 / C36 / C54), 機台/電箱/油箱一體成型可縮小佔地面積超過20%。
C-type machine has compact series (CNC C26/C36/C54), machine/generator/ tank compact save up more than 20% space.

Item / 項目	P26+E30 / C26+E30	P36+E50 / C36+E50	P54+E75 / C54+E75	P56+E75
X,Y travel / X,Y 軸行程	280×230 mm	380×280 mm	480×380 mm	580×470 mm
Z travel / Z 軸行程	150 mm	185 mm	185 mm	250 mm
U travel / U 軸行程	150 mm	230 mm	300 mm	450 mm
Work table / 工作台	600×300 mm	650×350 mm	850×400 mm	1000×550 mm

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P26+E30

P36+E50

P54+E75

P56+E75

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Standard Accessories	標準配備
Filter	濾網
Tool Box	工具箱
1/2" Chuck	1/2" 夾頭
Nozzle	沖油噴嘴
Auto Extinguisher	自動滅火器
Operation Manual	操作手冊
Working Lamp	工作燈
Auto Lubrication System	自動潤滑系統

Optional Accessories	選擇配備
Magnet Plate	磁座
Electronic MPG	電子手搖輪搖控器
Dielectric Cooler	油冷卻器

CNC

Ram-type Series 系列

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Ram 型機床特色

高剛性結構設計及固定式工作台，FC35 高等級鑄鐵，減少長時間使用之變形，消除加工中所產生的震動疑慮。
機台可選配 C軸 / A軸 / B軸 / 自動換刀系統

Ram Type Machine Features

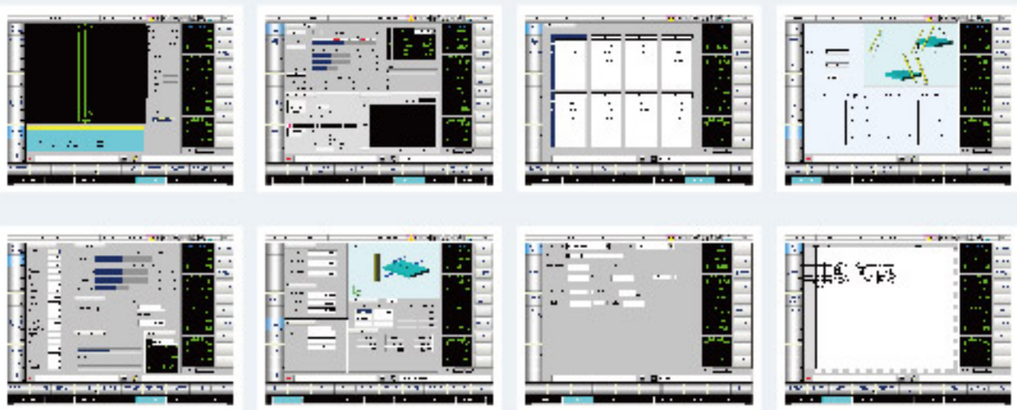
Rigid structure and fixed table design with FC35 fine grain castings reduce thermal distortion over long hour used and eliminate vibration during machining. Optional C axis / A axis / B axis / Auto tool changer system is available.

CNC WINDOWS based 控制器 - RAM 型機床

CNC WINDOWS based 控制器用於 RAM 型機床，機台可選配第五軸。採用 15" 全彩觸碰螢幕及 NC 碼加工模式，可實現三軸同動。全新 SMC 放電加工技術 (選配)，加工速度與舊迴路相比快 2.5 倍以上。

CNC WINDOWS based controller - RAM type machine

CNC WINDOWS based controller uses on RAM type machine, supporting optional fifth axis. 15" full color touch screen and NC code machining, XYZ axis work simultaneously. Advanced SMC EDM Technology(Opt.), compare with old circuit, the machining speed is more than 2.5 times.



P40+E75

P58+E75

P50+E75

P66+E100

Item / 項目	P40+E75	P50+E75	P58+E75	P66+E100
X,Y travel / X,Y 軸行程	400×300 mm	600×500 mm	800×500 mm	1300×700 mm
Z travel / Z 軸行程	400 mm	400 mm	400 mm	590 mm
Work table / 工作台	750×400 mm	800×650 mm	900×800 mm	1600×950 mm

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CNC

Ram-type Series 系列

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P309+E150

Ram 型機床特色

高剛性結構設計及固定式工作台，FC35　高等級鑄鐵，減少長時間使用之變形，消除加工中所產生的震動疑慮。

機台可選配 C軸 / A軸 / B軸 / 自動換刀系統

Ram Type Machine Features

Rigid structure and fixed table design with FC35 fine grain castings reduce thermal distortion over long hour used and eliminate vibration during machining.

Optional C axis / A axis / B axis / Auto tool changer system is available.

P169+E150

P189+E150

P209+E150

Standard Accessories 標準配備

Filter	濾網
Tool Box	工具箱
1/2" Chuck	1/2夾頭
Nozzle	沖油噴嘴
Auto Extinguisher	自動滅火器
Operation Manual	操作手冊
Working Lamp	工作燈
Auto Lubrication System	自動潤滑系統

Optional Accessories 選擇配備

Magnet Plate	磁座
C Axis	C 軸
Auto Tool Changer	自動換刀系統
Rotary Table	旋轉工作台
Dielectric Cooler	油冷卻器

Item / 項目	P169+E150	P169 (DUAL HEAD雙頭)	P189+E150	P189 (DUAL HEAD雙頭)	P209+E150	P209 (DUAL HEAD雙頭)	P309+E150	P309 (DUAL HEAD雙頭)
X,Y travel / X,Y 軸行程	1600 X 1000	800 X 1000	1800 X 1000	900 X 1000	2000×1000	1000 X 1000	3000×1000	2100 X 1000
Z travel / Z 軸行程	600	600	600	600	600	600	600	600
Work table / 工作台	1600 x 1000	1600 x 1000	1800 X 1100	1800 x 1100	1600×950	2000 x 1100	3100×1000	3100 X 1000

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ZNC Series 系列

ZNC 系統

安裝簡單，操作便利，只需輸入電極材質，電極尺寸，加工深度，控制器即可自動設定參數，可大面積與深孔加工，透過兩段伺服進給速度，即可提供最優化加工程序及維持加工精度。含自動防火控制系統與油位保護。全程微電腦監測，當積碳時，控制器自行調整T-off及清除積碳區域。

ZNC System

Easy set up, just input electrode material, size of electrode and expected machining depth, controller will create the necessary parameters. EDMing in large surface and deep machining with two section servo feed speeds enable supreme machining and maintain machining accuracy. Automatic anti fire and level protections featured. Controller offers micro computer monitoring. When in arcing condition, control automatic adjusting T-off and clean-up arced area.

P26+E30

P36+E50

C 型機床另有三合一機種 (ZNC C26 / C36 / C54)，機台/電箱/油箱一體成型可縮小佔地面積超過 20%。

C-type machine has compact series (ZNC C26/C36/C54), machine/generator/ tank compact save up more than 20% space.

Item / 項目	P26+E30 / C26+E30	P36+E50 / C36+E50	P54+E75 / C54+E75	P56+E75
X,Y travel / X,Y 軸行程	300×250 mm	400×300 mm	500×400 mm	580×470 mm
Z travel / Z 軸行程	150 mm	185 mm	185 mm	250 mm
U travel / U 軸行程	150 mm	230 mm	300 mm	450 mm
Work table / 工作台	600×300 mm	650×350 mm	850×450 mm	1000×550 mm

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C 型機床特色

精緻化的機械結構設計以及採用品質精良的機械零組件，同時保證機器的精度與品質。選用高等級鑄件，工作臺使用特殊熱處理加工過，增加鋼性及確保長時間使用下，不變形。

C Type Machine Features

Sophisticated machine structure design with selected main components assures both the machine's accuracy and quality. The table surface is heat treated for high rigidity and long wear resistance.

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Features of ZNC EDM

- Linear scales on 3 axes allow for feedback control and positioning accuracy of 0.005 mm.
- Computer control on z-axis.
- Real-time display and home points setting for 3-axis positions.
- Conversational parameter setting without need of any NC code.
- Automatic edge finding and workpiece rotating angle measurement.
- Machine reference point finding
- All data can be stored to eliminate troublesome repetitive setting.
- Electrode collision protection.

ZNC EDM 特性

- 3軸光學尺回授，位置精度0.005mm
- Z軸電腦控制
- 3軸位置即時顯示及原點設定
- 交談式參數設定，不必使用何NC碼
- 自動尋邊及中心定位，工件旋轉角度量測
- 機械參考點尋找
- 所有資料可加以儲存，免去重複設定的麻煩
- 電極碰撞保護

P54+E75

P56+E75

Standard Accessories	標準配備
Filter	濾網
Tool Box	工具箱
1/2" Chuck	1/2"夾頭
Nozzle	沖油噴嘴
Extinguisher	滅火器
Operation Manual	操作手冊
Working Lamp	工作燈
Manual Lubrication System	手動潤滑系統

Optional Accessories	選擇配備
Orbit-cut System	搖動機頭系統
Magnet Plate	磁座
Dielectric Cooler	油冷卻器

Specifications 規格表

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C TYPE

ITEM / 項目	UNIT 單位	C26	P26	C36	P36	C54	P54	P56
ZNC X/Y Travel 行程	mm	300 x 250	300 x 250	400 x 300	400 x 300	500 x 400	500 x 400	580 x 470
CNC X/Y Travel 行程	mm	280 x 230	280 x 230	380 x 280	380 x 280	480 x 380	480 x 380	580 x 470
Z Travel 行程	mm	150	150	185	185	185	185	250
U Travel 行程	mm	150	150	230	230	300	300	450
Work table size(LxW) 工作台尺寸(長x寬)	mm	600 x 300	600 x 300	650 x 350	650 x 350	850 x 450	850 x 450	1000 x 550
Max. work piece(LxWxH)-Flush 最大工件尺寸(長x寬x高)-沖水	mm	750 x 500 x 240	750 x 500 x 240	1000 x 600 x 330	1000 x 600 x 330	1200 x 700 x 380	1200 x 700 x 380	1600 x 1000 x 650
Max. work piece(LxWxH)-Submerge 最大工件尺寸(長x寬x高)-浸水	mm	750 x 500 x 180	750 x 500 x 180	1000 x 600 x 270	1000 x 600 x 270	1200 x 700 x 340	1200 x 700 x 340	1600 x 1000 x 480
Max. work piece Weight 最大工件重量	kg	800	800	1000	1000	1300	1300	1600
Max. electrode weight 最大電極重量	kg	100	100	120	120	180	180	300
Machine net weight 機器淨重	kg	1700	1700	2350	2350	2450	2450	3200
Machine Dimension 機器佔地面積	mm	1750 x 1875 x 2450	1750 x 2550 x 2450	1850 x 1950 x 2480	2800 x 1750 x 2480	2150 x 2150 x 2520	3400 x 2150 x 2520	3870 x 2500 x 3010
Distance from work table to electrode Plate 工作台至電極板距離	mm	190-490	190-490	140-555	140-555	160-645	160-645	360-1060
Max. Dielectric level 最大油位	mm	190	190	280	280	350	350	490
Dielectric Unit Capacity 油箱容量	Liter	250	250	310	310	340	340	1200
Filter 過濾網	pcs	2	2	2	2	2	2	4
Max. Machining Current 最大加工電流	Amp	30	30	50	50	75	75	75
Power Input 電源輸入	KVA	3	3	4.5	4.5	8	8	8

RAM TYPE

ITEM / 項目	UNIT 單位	P40	P50	P58	P66	P169 (SINGAL HEAD單頭)	P169 (DUAL HEAD雙頭)
CNC X/Y Travel 行程	mm	400 x 300	600 x 500	800 x 500	1300 x 700	1600 X 1000	800 X 1000
Z Travel 行程	mm	400	400	400	600 (1000 Opt.選配)	600 (1000 Opt.選配)	600 (1000 Opt.選配)
Work table size(LxW) 工作台尺寸(長x寬)	mm	750 x 400	800 x 650	900 x 800	1600 x 950	1600 x 1000	1600 x 1000
Max. work piece(LxWxH)-Flush 最大工件尺寸(長x寬x高)-沖水	mm	1200 x 750 x 430	1400 x 970 x 570	1480 x 1050 x 510	2100 x 1150 x 630	2700 x 1460 x 600	2600 x 1460 x 600
Max. work piece(LxWxH)-Submerge 最大工件尺寸(長x寬x高)-浸水	mm	1200 x 750 x 330	1400 x 870 x 410	1480 x 1050 x 470	2100 x 1150 x 530	2700 x 1460 x 540	2600 x 1460 x 540
Max. work piece Weight 最大工件重量	kg	1200	2500	4000	8000	8000	8000
Max. electrode weight 最大電極重量	kg	300	300	300	500	500	500
Machine net weight 機器淨重	kg	2000	3200	4200	8050	9000	11000
Machine Dimension 機器佔地面積	mm	2780 x 2075 x 2550	3450 x 2540 x 2750	3900 x 3200 x 2800	5000 x 4700 x 3450	5200 x 4620 x 3800	5200 x 4620 x 3800
Distance from work tableto electrode Plate 工作台至電極板距離	mm	320-720	440-840	450-850	680-1270	670-1270	670-1270
Max. Dielectric level 最大油位	mm	340	420	480	540	550	550
Dielectric Unit Capacity 油箱容量	Liter	600	960	1300	2450	3500	3500
Filter 過濾網	pcs	4	4	4	4	4	8
Max. Machining Current 最大加工電流	Amp	75	75	75	100	150	150
Power Input 電源輸入	KVA	8	8	8	10	16	16

RAM TYPE

ITEM / 項目	UNIT 單位	P189 (SINGLE HEAD單頭)	P189 (DUAL HEAD雙頭)	P209 (SINGLE HEAD單頭)	P209 (DUAL HEAD雙頭)	P309 (SINGLE HEAD單頭)	P309 (DUAL HEAD雙頭)
CNC X/Y Travel 行程	mm	1800 X 1000	900 X 1000	2000 X 1000	1000 X 1000	3000 X 1000	2100 X 1000
Z Travel 行程	mm	600 (1000 Opt.選配)	600 (1000 Opt.選配)	600 (1000 Opt.選配)	600 (1000 Opt.選配)	600 (1000 Opt.選配)	600 (1000 Opt.選配)
Work table size(LxW) 工作台尺寸(長x寬)	mm	1800 X 1100	1800 x 1100	2000 x 1100	2000 x 1100	3100 X 1000	3100 X 1000
Max. work piece(LxWxH)-Flush 最大工件尺寸(長x寬x高)-沖水	mm	2900 X 1460 X 600	2800 x 1460 x 600	3100 x 1460 x 600	3000 x 1460 x 600	4000 X 1450 X 630	4000 X 1450 X 630
Max. work piece(LxWxH)-Submerge 最大工件尺寸(長x寬x高)-浸水	mm	2900 X 1460 X 540	2800 x 1460 x 540	3100 x 1460 x 540	3000 x 1460 x 540	4000 X 1450 X 560	4000 X 1450 X 560
Max. work piece Weight 最大工件重量	kg	8000	8000	8000	8000	16000	16000
Max. electrode weight 最大電極重量	kg	500	500	500	500	500	500
Machine net weight 機器淨重	kg	10000	12000	11000	13000	16050	18550
Machine Dimension 機器佔地面積	mm	5300 X 4680 X 3800	5300 x 4680 x 3800	5500 x 4720 x 3800	5200 x 4620 x 3800	7200 X 5500 X 3850	7200 X 5500 X 3850
Distance from work tableto electrode Plate 工作台至電極板距離	mm	670-1270	670-1270	670-1270	670-1270	760-1360	760-1360
Max. Dielectric level 最大油位	mm	550	550	550	550	570	570
Dielectric Unit Capacity 油箱容量	Liter	3700	3700	4000	4000	6400	6400
Filter 過濾網	pcs	4	8	4	8	4	8
Max. Machining Current 最大加工電流	Amp	150	150	150	150	150	150
Power Input 電源輸入	KVA	16	16	16	16	16	16

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美溪機電
30 多年 EDM 專業歷練

MAXSEE Industry
Over 30 years of EDM Experience

創立於 1985 年的美溪機電工業股份有限公司，致力於放電加工機之研發、設計、製造，迄今已有 30 多年的豐富技術歷練。美溪擁有卓越的研發實力，不斷開發新機型，以因應市場之需求與潮流。美溪廣泛的機種系列涵蓋 CNC 放電加工機、線割機、打孔機、加工中心機，以及高速銑床。每一系列之設計重點都著重在高速、高效率、高精度的展現，以幫助客戶在競爭的環境取得優勢。

Established in 1985, MAXSEE Industry Co., Ltd. has been dedicated to R&D, design and manufacturing of electric discharge machines with more than 30 years of technical experience. At MAXSEE, we have outstanding research and development capabilities, enabling us to constantly develop new machines to meet market demands and trends. MAXSEE's wide range of products include CNC EDM, wire EDM, drilling EDM, machining center and high speed milling machine. The design on each series is to enhance high speed, high efficiency and high accuracy, that will help our customers to stay competitive in today's serious competitive environment.

ZNC / CNC DRILL EDM / 打孔機

ZNC / CNC EDM / 放電機

CNC WIRE EDM / 線割機

HIGH SPEED MIRROR EFFECT SINKER EDM / 高速鏡面放電加工機

HIGH SPEED MILLING MACHINE / 高速銑床機

MAXSEE
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Innovation 革新
Technology 技術
Quality 質量
Machine 機器

卓越客製化能力

美溪機電不只是打造一般常用之標準放電加工機。更重要的是，本公司可依據各種產業對機器性能的獨特需求，提供客製化的機器以及完整的解決方案與服務。美溪客戶群涵蓋各種產業，例如: 航太工業、3C 產業、模具廠、汽車業等。多年來與各種產業的長期配合，造就美溪機器徹底贏得國內外客戶的信賴。

Outstanding Customized Manufacturing Capabilities

MAXSEE's capability is not limited by building only general popular EDMs. More importantly, we are able to offer customized machines, total solutions and services to meet specific requirements of machines from various industries. MAXSEE's customers cover various industries, such as aerospace industry, 3C industry, mold-making plant and automotive industry, etc.
With long-term working together with various industries, MAXSEE machines have won full dependability from domestic and foreign customers.