MOLDMASTER

# CNC A-SERIES

## 機床規格 *SPECIFICATIONS*

| 項目 ITEM | 型號 MODEL | | A435 | | | | A325 | | |
|---|---|---|---|---|---|---|---|---|---|
| 加工槽內部尺寸 | Work tank internal dimensions (WxDxH) | mm | 900 x 570 x 390 | | | | 750 x 500 x 300 | | |
| 最大工件尺寸 | Max. workpiece dimensions (WxDxH) | mm | 820 x 450 x 320 | | | | 550 x 350 x 320 | | |
| 最大工件重量 | Max. workpiece weight | kg | 800 | | | | 500 | | |
| 最大電極重量 | Max. electrode weight | kg | 120 | | | | 80 | | |
| X, Y, Z軸行程 | X, Y, Z axis stroke | mm | 450 x 350 x 350 | | | | 350 x 250 x 300 | | |
| 最大移動速度 | Maximum moving speed | mm/min | X, Y, Z axis: 2000 | | | | X, Y, Z axis: 2000 | | |
| 工作台尺寸 | Table dimensions (WxD) | mm | 820 x 450 | | | | 550 x 350 | | |
| 電極夾頭板與工作台的距離 | Distance between plate and table | mm | 150~450 | | | | 150~450 | | |
| 機械體積 | Machine tool dimensions (WxDxH) | mm | 1400 x 2000 x 2450 | | | | 1250 x 2000 x 2100 | | |
| 電子箱體積 (WxDxH) | Volume of electric cabinet (WxDxH) | mm | 780 x 880 x 1750 | | | | 780 x 880 x 1750 | | |
| 機械重量 | Machine tool weight | kg | 2500 | | | | 2200 | | |
| 電子箱重量 | Weight of electric cabinet | kg | 450 | | | | 450 | | |
| 油箱容量 | Dielectric reservoir capacity | ℓ | 550 | | | | 450 | | |
| 可選用電源容量 | Available power supplies | type | G35 | G50 | G70 | G105 | G35 | G50 | G70 |
| 佈置面積 (A×B) (C×D) | Layout (A×B) (C×D) | mm | (2800 x 2800) (2200 x 2000) | | | | (2650 x 2800) (2050 x 2000) | | |
| 可設定驅動單位 | Setting unit increments | μm | 1 | | | | 1 | | |
| 光學尺解析單位 | Optical scale resolution | μm | 1 | | | | 1 | | |

■ 加工槽內部尺寸係指工作台上可用之範圍。
■ 佈置面積：AxB: (機台+預留空間), CxD: (機台)。
■ 本公司保留規格及數值變更之權利，若有更改時恕不另行通知，並請於訂購時確認。

■ The work tank internal dimensions means the applicable range on the table.
■ Layout: AxB: (Machine+Reserve space), CxD: (Machine)。
■ Specifications are subject to change without prior notice due to to continual research and development.

## 選用配備 *OPTIONS*

NA: Not available ○: Available

| 項目 ITEM | 型號 MODEL | | | A435 | A325 |
|---|---|---|---|---|---|
| 電擊夾具系統 | AUTO TOOLING SYSTEM | | | 3R (MACRO), EROWA (ITS) | |
| 線性刀庫* Linear magazine* | 最大電極數目 | Electrode No. | | 4 / 5 | |
| | 最大電極承載重量 | Max. Weight of electrode | kg | 15 | |
| | 直徑/長度 | Diameter / length | mm | 65 / 120 | |
| 旋轉刀庫* Rotary magazine* | 最大電極數目 | Electrode No. | | 12 / 16 | |
| | 最大電極承載重量 | Max. Weight of electrode | kg | 5 | |
| | 直徑/長度 | Diameter / length | mm | 65 / 120 | |
| C軸 C-axis | 結構 | Structure | | 內藏式 Built-in type | |
| | 解析能力 | Resolution | deg | 0.001 | |
| | 旋轉速度 | Rotation | rpm | 3R (0~20), EROWA (0~20) | |
| | 最大電極承載重量 | Max. Weight of electrode | kg | 25 | |
| 介電質油液的噴/吸選擇數 | | Dielectric-fluid injection/suction select | | 4 / 1 | |
| 可程式噴油口 | | Programmable flushing nozzle | | ○ | |
| 介電質油液冷卻器 | | Dielectric-fluid cooler unit | | ○ | |
| 穩壓器 (AVR)* * | | Voltage regulator unit (AVR)* * | | ○ | |
| 逆洗過濾系統設備 | | Automatic back flushing system | | ○ | |
| 操作系統 | | Operation system | | DOS / WINDOWS (Touch panel) | |
| 高速光澤加工系統 | | High quality super polishing system (HQSP) | | A435S | A325S |

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■ * 為配合線性和旋轉自動刀庫的運作，未購買C軸者，必須購買3R或EROWA自動夾頭
■ * * 請用戶調查區域電壓的穩定情況，電壓變動在超過+15%或-10%時，應特別裝設AVR，以提昇電子零件壽命。
■ * * * HQSP可加工出400 cm²的光澤表面，表面粗糙度Rmax=1~3μm。

■ Specifications are subject to change without prior notice due to continual research and development.
■ * Linear and Rotary magazine must use air chuck (3R-600, EROWA).
■ * * When variation of the AC power source is +15% over or -10% under, we recommend using AVR to improve stability.
■ * * * The maximum working area for the HQSP reaches 400 cm², and creates a Rmax=1~3μm surface roughness.


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# CNC A-SERIES

## 加工槽升降式放電加工機
## INTELLIGENT ELECTRIC DISCHARGE MACHINE

高速度 / 高精度 / 升降槽式 / 全自動化

- High Speed
- High Accuracy
- Elevating Work Tank
- Fully Automatic

CE afaq ISO 9001 Quality

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# 高速度 / 高精度 / 升降槽式 / 全自動化
## High Speed...High Accuracy...Elevating Work Tank...Fully Automatic

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**A435** *(WINDOWS)*


**A325** *(DOS)*

### 升降式加工槽
當設定整備工件時或機上檢查已加工件之結果，允許三面近身操作加工台，達成無障礙空間設計。提供快速浸油、洩油，加工槽之高度設定可隨操作者管控，省時省力，提供極具方便性的操作環境。

### 新式Z軸高精密機頭
高荷重、高剛性的獨特主軸設計，在長時間下進行2m/min以上的高速運動，仍然能保持高精密的深度尺寸。

### 提昇機器精度
由於加工液溫控制在機器溫度的±0.5C°，減少機器之熱變位漂移，以確保長時間自動化操作所需要的高精度加工。XYZ軸皆經雷射補正後，全行程在±1μm內 (必須在恆溫下)。

### 新電源與控制系統
新型放電電源控制系統，即時穩定的能量調控技術，具有不受環境擾動能力。獨特的異常放電檢知技術與高解析度的運動控制，大幅增強修細加工速度，避免表面蝕孔破壞發生，容易獲得均勻精細表面。

### Windows介面 (選配)
更友善的操作介面，可加購遠端監控系統，透過WiFi連線，遠端編輯程式，再傳輸到現場指定的機台。另可加購GSM模組，傳送即時訊息到使用者手機。

### Elevating work tank
When setting up workpiece or checking the workpiece machining result, the work tank can be conveniently accessed from three sides. This provides an interference-free working space for fast immersing and draining of fluid. The work tank height can be controlled by the operator, leading to time-saving and effort-saving and increased convenience of operation.

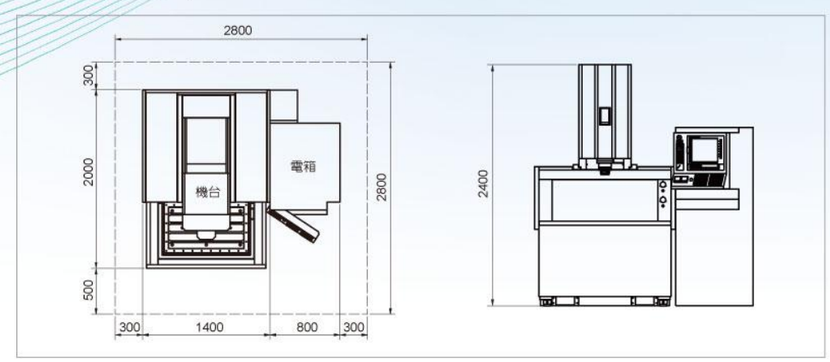
### Newly designed high precision head (Z-axis)
The specially designed spindle resists heavy load and features high rigidity, and keep high precision machining depth at all times when high-speed traverse rate is over 2 m/min. for a long time.

### Increased machine accuracy
As working fluid temperature is controlled within ±0.5°C of the machine temperature to minimize thermal displacement of the machine, ensuring the demanding machining accuracy in long-time automated operations. The X,Y,Z-axis are calibrated by a laser unit to achieve ±1μm accuracy in their entire travels. (at a constant temperature)

### New power supply & control system
The newly designed power supply control system provides real-time and stable energy control, which is not affected by the environmental fructuation. Unique discharge detection in combination with high resolution movement control dramtically increases fine finishing speed, avoids surface hole erosion and creates extra fine surface.

### Windows interface (optional)
The user-friendly operational interface is available to equip with a far end monitoring system combined with online through WiFi for far end program editing, then transmitting these programs to a specific machine on the shop floor. In addition, a GSM module is also available to tramsmit real-time message to the user's mobile phone.

***A435* 佈置圖 *Layout of A435***




***A325* 佈置圖 *Layout of A325***